



MIT
COMMENCEMENT

20
23

MIT Commencement
Honoring the graduates of 2023

Thursday, June 1, 2023



Massachusetts
Institute of
Technology



WELCOME

The Class of 2023 will join a great, global family of nearly 145,000 MIT alumni. Connected by shared experiences, our community is knit together by fundamental values and ideals: Excellence and curiosity. Openness and integrity. Creativity and boldness. A passion for solving tough problems. And a collective drive to use our strengths wisely to serve humanity.

Our new graduates will help create the future of our society—and our planet. But before they get started, we are delighted to join their families and friends in honoring their accomplishments at MIT.

Congratulations, Class of 2023!

Sally Kornbluth
President

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SCHOOL OF ARCHITECTURE AND PLANNING

Bachelor of Science in Architecture

Course IV

Department of Architecture

Natasha K. Hirt

Also with a Major in Course XI
(See also M.Eng., Course I-P)

Karla Marcela Tamez

Michael J. Tan

Minor in Japanese

Isabel Margaret Waitz

Bachelor of Science in Art and Design

Course IV-B

Department of Architecture

Audrey Gatta

Also with a Major in Course XIV-2
Minor in Spanish

Felix Li

Karyn A. Nakamura

Jenny Zhang

Minor in Computer Science

Bachelor of Science in Planning

Course XI

Department of Urban Studies and Planning

Melissa D. Hill

Also with a Major in Course XV-1

Trinity Jet Stallins

Also with a Major in Course II-A
Minor in Environment and Sustainability

Eva A. Then

Bachelor of Science in Urban Science and Planning with Computer Science

Course XI-6

Department of Urban Studies and Planning in conjunction with the Schwarzman College of Computing

Gabriel Carlo Alonzo Barrett

Minor in Spanish

Amelia Lee Doğan

Also with a Major in Course XXI

Meera A. B. Gregerson

(February, 2023)

Keili Alana Tucker

SCHOOL OF ENGINEERING

Bachelor of Science in Engineering as recommended by the Department of Civil and Environmental Engineering

Course 1-ENG
*Department of Civil and
Environmental Engineering*

Aliai Dhol Acuil
Minor in Anthropology
(February, 2023)

Dylan E. Brooks
Also with a Major in Course VI-1
Minor in Public Policy
(February, 2023)

Vivian Cheng
Minor in Computer Science

Emily Gao Fang
Also with a Major in Course XI

Ava Vittoria Gillikin
Minor in Management

Simone Sive Lassar
Minor in Design
(February, 2023)

Juliet Noriko Liao
Minor in Computer Science

Catherine Suet-Ching Lu
Minor in Computer Science

Emily Streiff
Minor in Mathematics
(February, 2023)

Karissa Jane Wenger
Minor in Spanish
(See also M.Eng., Course I-P)

Eric L. Wooten

Bachelor of Science in Mechanical Engineering

Course II
*Department of Mechanical
Engineering*

Layal Barakat
Minor in Design
(February, 2023)

Michael J. Burgess, Jr.

Joshua A. Butler

Victor Arturo Diaz

Max Fan

Marcelo García

Levi S. Gershon
(February, 2023)

Miller E. Geschke
Minor in Energy Studies
(February, 2023)

Delaney Kathleen Goetz

David E. Hernandez

Jessica N. Horowitz
Minor in Environment and Sustainability
Minor in Energy Studies
(February, 2023)

Lambert Hu

Delace Linghui Jia

Rishi Tarun Kommalapati
Minor in Comparative Media Studies

Cong Li

Yong Jie Lin
Minor in Environment and Sustainability

Oliver Philip MacNeely
(September, 2022)

Nina M. Morch
Minor in Theater Arts

Andrew J. Motz
Minor in Music
Minor in Biomedical Engineering

Megan Diễm-Thùy Ngo
Minor in Computer Science

Joshua Noguera

Benjamin J. Owen-Block

Frank J. Ozello III

Christina M. Patterson
Also with a Major in Course XXI-M

Victor Paul Portmann

Jonhenry W. Poss

Theodore Joseph Rizo
(February, 2023)

Joshua Samuel Rohrbaugh

Emma K. Rutherford
Also with a Major in Course VIII
Minor in Computer Science
Minor in Design

Enya Ryu

Emily A. Scherer

Laura A. Schwendeman
Minor in Biomedical Engineering

Carl Andrew Seelhoff
Minor in Statistics and Data Science
(February, 2023)

Henry F. Sobieszczyk

John B. Thomas
(February, 2023)

Kyle B. Thompson

Valeriia V. Tyshchenko

Gabriella E. Ulloa

Kiet Vu

Sylvia Elise Waft

Carolina S. Warneryd
Minor in Computer Science

Benjamin Thomas Weizer

Christian D. Williams
(February, 2023)

Luke H. Woodcock

Yufei Wu
Minor in Theater Arts

**Bachelor of Science in
Engineering as recommended
by the Department of
Mechanical Engineering**
Course II-A
*Department of Mechanical
Engineering*

Amanda Shayna Ahteck

Aljazzy Alahmadi

Pablo Alejo-Aguirre
Minor in Theater Arts

Danielle Nicole-Mako Allison
Minor in Music

Jordan Ambrosio

Toluwalase Jennifer Asade
Also with a Major in Course XXI-M

Eduardo Cuauhtémoc Barrios

Maheera Bawa
Minor in Computer Science

Jolie Sonia Bercow

Quinn N. Bowers

Caralyn Joy Briggs

Natalie Amelia Cardenas

Christina Chen
Minor in Management

Doreen L. Chin
(February, 2023)

Trevor D. Ching
Minor in Design

Oliver Han Chinn

Jinger Sia Chong
Minor in Chinese
Minor in Computer Science

Kwame S. Connell

Douglas D. Coughran IV

Christian J. de Weck
Minor in German

Ambre E. Decilap
Minor in Computer Science

Daymé Delgado
(February, 2023)

Sophia Morgan Sakamoto DiSabato

Chibuzor I. Eduzor
(September, 2022)

Tess M. Engst-Mansilla

Rafael de Brito Lemes Fernandes

Katana Rain Finlason
Minor in Energy Studies

Paige O. Forester

Hannah Brielle Gazdus
Also with a Major in Course XXI-W

Samuel John Gozelski
(February, 2023)

Juliana Ceppas Green
Also with a Major in Course IV-B

Anna Y. Haddad

Sabrina Belén Hare
Minor in Design

Diane Heinle

Steven Herrera

Evan E. Hostetler
Minor in Design
(February, 2023)

May J. Huang

Luis C. Ibarra

Matthew J. Jens

Mulan Jiang
Minor in Spanish

Andrew P. Johnson
Minor in Computer Science

Stephanie M. Khaguli

Magnus-Tryggvi
Adejogun Kosoko-Thoroddsen

Sophia Alexis Leon Guerrero
Also with a Major in Course XV-1

Diane Y. Li
Minor in Energy Studies
(February, 2023)

Lillian A. Linden

Carly Erin Long

Sophie Y. Longawa

Joshua Paul Maldonado
(February, 2023)

John Cyril Malloy IV
Minor in Finance

Morgan Parker Mayborne
Minor in Political Science

Devin C. McCabe

Chad Arthur Meier

Anna Josephine Meurer
Minor in Entrepreneurship & Innovation
Minor in Anthropology

Andrea Montserrat Moncada
Minor in Management

Joseph M. Ntaimo

Andrew T. Palleiko
Minor in Computer Science

Seohyoung Park
Minor in Business Analytics

Olivia L. Parsons
Minor in Management
(February, 2023)

Logan Kai Long Paterson

Yuka M. Perera
Minor in Management
Minor in Energy Studies

Christopher J. Perrino

Kassidy Iris Peterson
(February, 2023)

William D. Reinkensmeyer

Viviana Rivera Martínez

Jacob A. Rodriguez
Minor in History

Jesus Andres Rodriguez
Minor in Management

Ronak Roy
Also with a Major in Course VI-1

Nicholas A. Saavedra
(February, 2023)

Ahmad A. Salman

Jason M. Salmon

Kaira M. Samuel

Jared Edward Scott
Minor in Computer Science

Peter N. Scott
Minor in Energy Studies

Kenan Hayel Sehnawi

Nicole M. Seman

Dylan Keith Patrick Sequeira

Sharmi M. Shah

Aquila V. Simmons
Also with a Major in Course XXI-M

Kiely M. Smiga-McManus
(February, 2023)

Mariia Smyk

Joshua Chanyoung Sohn
Also with a Major in Course VI-2

Sophia D. Sonnert
Minor in German

Bryan C. Sperry
Also with a Major in Course VIII

Yushan Su

Emma Salome Suh

Sandra J. Villagrana

Christian Eduardo Viteri
Minor in Literature

Kristopher Loi Vu

Taimor M. Williams
Minor in Economics

Jack W. Yurkanin

Leonardo O. Zamora Yanez

Adam Redmond Zimmermann

Bachelor of Science in Materials Science and Engineering

Course III

*Department of Materials Science
and Engineering*

Sergio A. Arenas Hernández
Minor in Mathematics
Minor in Archeology and Materials

Ningxin Chen
Minor in Architecture

Sara Vanessa Fernandez
Minor in Entrepreneurship & Innovation
Minor in Chinese

Priya Ganesh
Minor in Computer Science

Perapat Pete Gatenil
Minor in Mechanical Engineering

Eyosias Adanegn Gebremeskel
Also with a Major in Course VI-2

Josh A. Glass

Carolina Gutierrez

Amena Khatun
Minor in Environment and Sustainability
Minor in Biomedical Engineering

Steven H. Ngo
(February, 2023)

Sherrie X. Qian
Minor in Chemistry
Minor in Polymers and Soft Matter

Samuel William Song
Minor in Computer Science

Bachelor of Science as recommended by the Department of Materials Science and Engineering

Course III-A

*Department of Materials Science
and Engineering*

Wesley Wade Block
(February, 2023)

Tess R. Buchanan
Minor in Urban Studies and Planning

Shane J. Campbell

Eryn N. Cornelius

Dennis D. Gastel

Katherine Q. Guo
Also with a Major in Course IV-B

Helen Hu

Arina D. Khotimsky
Minor in French
Minor in Energy Studies

Sheikh R. Mahmud
Minor in Computer Science

Nyssa Raquel Miller
Minor in Theater Arts

Gabrielle Ogata

Jocelyn Han Ting
(February, 2023)

**Bachelor of Science in Electrical
Science and Engineering**

Course VI-1

*Department of Electrical
Engineering and Computer
Science in conjunction with the
Schwarzman College of Computing*

Pedro Leonardo Acosta De León

Jonas Nathaniel Cameron
Minor in Mechanical Engineering
Minor in Economics

Leif Charles Clark
Minor in Political Science

Matthew J. Cox
Also with a Major in Course XVIII

Liliana B. Edmonds

Roberto E. Garcia
(September, 2022)

James A. Greer

Omozusi E. Guobadia
Also with a Major in Course IX

Nicolas M. Hougardy

Raiphy Jerez

Joshua Lim
(February, 2023)

Trinity W. Manuelito

Nishat Fahmida Protyasha
Also with a Major in Course VIII
Minor in Music

Nikita Romanov

Abigail Margaret Shull
Also with a Major in Course VIII

Jade Camille Sund
(February, 2023)

Maxwell Tianchen Yun
Minor in Comparative Media Studies
(February, 2023)

**Bachelor of Science in Electrical
Engineering and Computer
Science**

Course VI-2

*Department of Electrical
Engineering and Computer
Science in conjunction with the
Schwarzman College of Computing*

Kojo Anane-Fordjour
Minor in Business Analytics

Aklilu T. Aron

Nithya Sri Attaluri
(See also M.Eng., Course VI-P)

Shelly Ben-David
Minor in Mechanical Engineering

Grace Cai
(February, 2023)
(See also M.Eng., Course VI-P)

Alexander Blake Canepa
(February, 2023)

Trevor Stephen Carter
Also with a Major in Course XXI-L

Carlos M. Castillo Lozada
(February, 2023)

Rachel H. Chae
Minor in Biomedical Engineering

Harshal Chamdal

Anna Leigh Chau

Anika Cheerla

Susanna Chen

Gabriel Cojocar

Abraham I. Corea Diaz
Minor in French

Sarah M. Coston

Lucian K. Covarrubias

Kameron S. Dawson

Keegan Jaymes Deppe

Kaustubh Dighe

Jessica H. Ding
Also with a Major in Course XVIII

Christopher K. Evagora
(February, 2023)

Joseph W. Feld
Minor in Mathematics

Annie Z. Feng

Reinaldo Figueroa Parra

John M. Flynn
Also with a Major in Course VIII

Kevin Frans
(See also M.Eng., Course VI-P)

Portia Tatiana Ashley Gaitskell	Monica Q. Liu	Elaine Pham
Nina R. Gerszberg	Rachel Jing Liu	John Robert Poliniak
Fiona Jia-Yu Gillespie Minor in Mechanical Engineering	Mindy F. Long	Kevin Qian
Eric Gonzalez	Michael Lu Minor in Mechanical Engineering	Noah B. Raby
Jacob A. Hansen Also with a Major in Course IX	Mufaro Emmanuel Makiwa	Nathan Ramesh Also with a Major in Course II
Joshua I. Herrera	Samantha M. Maldonado Also with a Major in Course XVII	Rachel L. Raybuck Minor in Earth, Atmospheric, and Planetary Sciences
Marisa D. Hoosen	Braulio Martinez-Silva	Daniel Thomas Saavedra
Michael Angelo Iglesias	Catherine Mei Also with a Major in Course IX	Olivia A. Schirm
Aishah Muhammad Soriano Jones (February, 2023)	Katherine Grace Mohr	Spencer J. N. Shroff
Shreya S. Karpoor Minor in Entrepreneurship & Innovation	Neelambar Mondal	Olivia Carolina Siegel
Moulinrouge Fredrick Kaspar	Joseph P. Morales	Meenakshi Singh
Matthew T. Kearney Also with a Major in Course XXIV-1 (See also M.Eng., Course VI-P)	Erastus M. Murungi	Anjali Sinha
Hophin W. Kibona	James A. Nguyen	Lejla Skelic
Pranav Shankar Krishna Also with a Major in Course XXIV-2	Hao Ni	Emily Rosmery Sologuren
Albert Kwon	Alexandra C. Nwigwe Minor in Design	Andrei George Spiride
Aria Carlyse Kydd Also with a Major in Course XXI-M	Raveen Nzilani (February, 2023)	Alexandre Sarkis Studer
Hien M. Le	Armando D. Oliver Minor in Economics	Brady Michael Sullivan Minor in Mechanical Engineering
Seung Min Lee (September, 2022)	Rafael E. Olivera-Cintrón Minor in Mechanical Engineering Minor in Urban Studies and Planning	Ahmad W. Taka Minor in Physics
Pearl Li	Anthony C. Ou Also with a Major in Course VIII Minor in Mathematics	Grace Wen-Lian Tang (See also M.Eng., Course VI-P)
Cynthia Lin (February, 2023)	Aiden F. Padilla	Toomas Tennisberg
Amber Y. Liu	Kristen E. Palmer Minor in Chinese	Cem Arda Tepe
Kerlina Liu Minor in Writing	Ritik Patnaik	Irene Elisabeth Terpstra
		Muhammed Suleman S. Thaniana

Shreya R. Thipireddy
(February, 2023)

Tiffany Vu Tran
Minor in Mechanical Engineering

Miguel A. Tulla Lizardi
Also with a Major in Course VIII

Sophie Van Pelt

Fabian Adonnis Velasquez
Minor in Political Science

Justice M. Vidal
Also with a Major in Course VIII
Minor in Philosophy

Diana Nguyen Voronin

Lacthu Vu

Archer D. Wang
Also with a Major in Course VIII

Cindy X. Wang
Minor in Chinese

Nieky Wang
Minor in Mechanical Engineering

Wei-En Warren Wang
Also with a Major in Course VIII

Alexander Gabriel Warren

Ryan J. Wilson
Also with a Major in Course XIV-2

Adrianna Dominika Wojtyna
Also with a Major in Course XV-2

Wendy S. Wu
Also with a Major in Course XVIII
Minor in Biology
Minor in Writing

Izabella L. Zamora
Minor in Biology

Julian Zanders

Jenny Lian Zhang
Minor in Mechanical Engineering

Jessica J. Zhang
Minor in Writing

Travis J. Ziegler
(See also M.Eng., Course VI-P)

**Bachelor of Science in
Computer Science and
Engineering**

Course VI-3

*Department of Electrical
Engineering and Computer
Science in conjunction with the
Schwarzman College of Computing*

Nishant Abhangi
Also with a Major in Course XVIII
Minor in Physics
Minor in Economics

Muhammad Ashhad Alam

Ayesha Ali
Also with a Major in Course XIV-1

Sabiyah Ali

Kathleen Rose Allden
Also with a Major in Course XV-2

Brett Z. Allen
(February, 2023)

Shaden Naif K Alshammari
Also with a Major in Course XVIII

Nicholas C. Anewalt
(February, 2023)

Nkenna N. Aniedobe
Minor in Statistics and Data Science

Ajay Arora

Riya Arora
(See also M.Eng., Course VI-P)

Anna A. Arpaci-Dusseau

María Ascanio Aliño
Minor in French
(See also M.Eng., Course VI-P)

Angelos Assos

Sebastian Avila
(February, 2023)

Kevin E. Awoufack
Minor in French

Isabel Báez Alicea
Minor in Design

Umang Bansal
Also with a Major in Course XIV-2
Minor in Chinese

Benjamin Leland Bartschi

George C. Bian
Minor in Economics

Sam T. Boshar
Also with a Major in Course XVIII
Minor in Brain and Cognitive Sciences

Jeremiah H. Budiman

Cathy Cai
Also with a Major in Course XVIII

Fiona X. Cai
Minor in Mathematics

Miranda J. Cai

Hector M. Carrillo
Minor in Mathematics
(February, 2023)

Ashley Sima Casden

Enrique Casillas

Luis Yael Castro Polanco

Alvin Chan
Also with a Major in Course XV-2

Martin Chan

Eileen Xin Yu Chau
Minor in Chinese

Victor Chau
(February, 2023)

Allen E. Chen
Also with a Major in Course XVIII

Andrew Chen	Elvis N. Dyette	Manuel A. Guillen Also with a Major in Course XVIII (September, 2022)
Kevin Sun Chen	John Michael Eastman Minor in Japanese	Matthew Guo
Peiqi Chen	Emily J. Fan	Aneesh Gupta Also with a Major in Course XVIII
Robert Charles Chen (February, 2023)	Dean Fanggohans Minor in Music (See also M.Eng., Course VI-P)	Diptasri Gupta
Jisoo Cheong	Ashar Farooq	Sejal Gupta Minor in Economics
Sarah X. Chieng	Thomas J. Fisher	Aparna Ajit Gupte Also with a Major in Course XVIII
Shelley Jeeyoo Choi Also with a Major in Course XV-2	Jamie Fu	Nicholas F. Gustafson
Nicole Cybul	Zhi Wei Gan Also with a Major in Course XVIII	Naseem Hamed
Bilal Hekmat Daqqah Also with a Major in Course XV-2	Ixa Gani	Jerry Han Also with a Major in Course XV-2
Arman Dave Minor in Mathematics (February, 2023)	Benjamin Gao	Michelle J. He Also with a Major in Course XXI-M
Arthur Reiner Ventura De Belen	Trinity Gao Minor in Finance Minor in French	Adriano Hernandez (February, 2023)
Jeremiah R. DeGreeff Minor in Mathematics	Andrea L. Garcia Minor in Mathematics	Antony Hernandez Mendoza
Zachary R. Deng Also with a Major in Course XVIII	Daniel Garcia	Jay R. Hilton
Nisarg K. Dharia Minor in Economics (February, 2023)	Nicholas Gabriel Cwynar Garcia (February, 2023)	Alex Homma
Ileana Diaz (September, 2022)	Montserrat Garza Also with a Major in Course XXI-M (February, 2023)	Anson Ruikang Hu (February, 2023)
Juan F. Diaz	Erick K. Gbordzoe	Allen Huang
Allen Qian Ding	Milto M. Geleta	Katherine Mary Huang
Claire Dong Also with a Major in Course XV-1	Kuauhtemoc Salvador Gonzalez (February, 2023)	Neha S. Hulkund Also with a Major in Course XVIII (See also M.Eng., Course VI-P)
Samir Droubi	Vanessa Elizabeth Gonzalez	Lucas James Igel
Cynthia Ke Du Also with a Major in Course XV-1 (February, 2023)	Neha Govil Also with a Major in Course XVIII	Mark Jabbour Also with a Major in Course XVIII
Juan Sebastián Duitama Cortés	Cale Gregory	Adam P. Janicki

Kevin Jiang	Kelly Thien Lam	Jianna Liu
Caroline Linda Jin Minor in Mathematics (February, 2023)	Pedro D. Lantigua (September, 2022)	Katherine Liu Minor in Mathematics
Catherine Anne Johnson	Mary Lau Minor in Mathematics	Kyle Yijie Liu (See also M.Eng., Course VI-P)
Quincy T. Johnson	Nguyen Le	Richard R. Liu
Prabhakar Kafle	Jason J. Lee	Sabeen Imtiaz Lohawala Minor in Linguistics
Miles Kaming-Thanassi	Samuel S. Lee Minor in Mathematics	David Lu (See also M.Eng., Course VI-P)
Gabriel A. Kammer Minor in Mathematics (February, 2023)	Tin Yau Lee	Edward P. Lu Also with a Major in Course XVIII Minor in Economics
Ahmed Katary	Amy Lei	Helen Lu Also with a Major in Course XVIII
Mahmoud W. Khalifa	Matthew Diarmuid Leonard Minor in Physics	Victor Luo Also with a Major in Course XVIII
Grace Kim	Alexandra S. Li	Maximo A. Machado
Ryan Micah Kim Minor in Mathematics	Alvin K. Li Minor in Entrepreneurship & Innovation	Calvin Michael Alan Maddox
Seok Hyeon Kim Minor in Mathematics	Jeff D. Li	David S. Magrefty
Anjalie Sonia Kini Also with a Major in Course XIV-1 Minor in Mathematics	Raymond B. Li Also with a Major in Course VIII	Natasha M. Maniar Minor in Finance
Naomi Kawira Kirimi Minor in French	Shengtong Li Minor in Economics	Sean Mann (See also M.Eng., Course VI-P)
Giorgi Kldiashvili Minor in Economics	Isaac C. Liao Also with a Major in Course VIII	Julian James Adeyemi Manyika Also with a Major in Course XXIV-1 (February, 2023)
Maanasa Kotha (February, 2023)	Joseph David Licht	Ivy Y. Mao Minor in Economics Minor in Mathematics
Aleksandar Krastev (See also M.Eng., Course VI-P)	Darren T. Lim	Jerry W. Mao Also with a Major in Course XVIII
Callie Elizabeth Kunz	Jason Lin	Megha Maran Also with a Major in Course XV-2
Michael K. Kuoch Minor in Biology	Raymond Lin Minor in Mathematics	Zoë Marschner Also with a Major in Course XVIII
Nurullah Giray Kuru Also with a Major in Course XVIII	Sharon Lin	
Ethan A. LaBelle	Annie Liu	
	Helen Xueyun Liu Also with a Major in Course XV-2	

Gustavo Aguiar Martins
Minor in Brain and Cognitive Sciences

Matas Masys

Jenna Marie McClellan

Kimberly F. McPherson
Minor in Spanish
Minor in Design

Frederick Mejia

Praneet Mekala
(See also M.Eng., Course VI-P)

Julie L. Meng
Minor in Brain and Cognitive Sciences
Minor in Music

Grant M. Miller
Minor in Mathematics
(February, 2023)

Catalina Monsalve Rodriguez
Minor in Design

Felipe Morales Osorio

Aleksandr Morozov

Nolan N. Moy

Natalie Muradyan

Anushka Manchanda Nair

Haley M. Nakamura
Minor in Environmental Engineering
Science

Mai Ngoc Nguyen

Nghi Hoàng Nguyễn
Minor in French

Ngoc B. Nguyen

Thanh P. Q. Nguyen

Marco Lu Nocito

Brian Ntanga

Troy P. Oliveira

Ryuta R. Ono
Minor in Brain and Cognitive Sciences

Nicholas J. Ortiz

Anne Ouyang
(See also M.Eng., Course VI-P)

Trudy E. Painter
Also with a Major in Comparative Media
Studies

Daniel Papacica

Isabella Pedraza Pineros
Minor in Finance
Minor in French

Katherine Virginia Pelton
Minor in Urban Studies and Planning

Sergio Angel Perez

Ian C. Pérez Collazo

Trent J. Piercy

McKinley M. Polen

Sebastián J. Portalatín Cortés

Subha Nawer Pushpita
Also with a Major in Course XVIII

Bryan Pyo
Minor in Mathematics

Benjamin Qi

Alex Hong Quach

Erica Ward Radler

Tejal V. Reddy

James R. Richardson
Also with a Major in Course XVIII

Michael Ashton Robinson

Sebastián Ignacio Rodríguez
(February, 2023)

Victor Rong
Also with a Major in Course XVIII
Minor in Public Policy
(See also M.Eng., Course VI-P)

Alex Sanchez

Athena Sanchez

Karissa Aitana Sanchez
Also with a Major in Course XXIV-2

Gerardo U. Segura

Andrew Sepúlveda
Minor in Music Technology

Deniz Bilge Sert

Mohammed Shafim

Kevin Z. Shao

Ishana A. Shastri
Minor in Mathematics

Yichuan Shi
Also with a Major in Course XVII

Zhining Shi

Jonathan P. Shoemaker
Also with a Major in Course VIII

Anjali Singh
Also with a Major in Course XVIII

Parul Singh

Adam Zhun Hua Snowdon

Richard P. Sollee III
Also with a Major in Course VIII

Shashvat Srivastava
Also with a Major in Course XVIII

Benjamin Steffen

Nicole C. Stiles

Andrew P. Stoddard
Minor in Management

George W. Stultz
Also with a Major in Course XV-2

Jocelin Su
Also with a Major in Course XVIII
(See also M.Eng., Course VI-P)

Vighnesh Subramaniam
Minor in Linguistics

Anna T. Sun

Melinda M. Sun
Also with a Major in Course XVIII

Michael C. Sutton
Minor in Chinese

Malobika Fahmida Syed

Matthias A. Takele

George Tang

Sandra S. Tang
Minor in Design

Julius Liang-Li Tao
Minor in Mathematics

Laena Tieng

Kevin Cao Tong
Also with a Major in Course XVIII

Megi Topalli

Gianna Nana Ama Boadi Torpey
Minor in French

Amani Toussaint

Raymond Tran
(February, 2023)

Giorgi Tskhadadze
(February, 2023)

Benjamin G. Urquhart

Pranali Vani
Minor in Brain and Cognitive Sciences

Guillermo Vasquez

Saaketh Vedantam
Also with a Major in Course XVIII
Minor in Economics
(See also M.Eng., Course VI-P)

Boris Velašević
Also with a Major in Course XVIII
Minor in Economics

Daniela Velez

Vanessa Vera
Minor in Japanese

Linh T.M. Vo

David A. Vulakh
(February, 2023)

Crystal Wang
Also with a Major in Course XIV-2
(February, 2023)

Emma Jordan Wang
Also with a Major in Course XVIII

Haijia Wang

Jett Z. Wang

Sean Wang
Also with a Major in Course XVIII
Minor in Economics

Shih-Yu Wang

Stanley Wang
Minor in Mathematics

Yuyuan Wang
Also with a Major in Course XXIV-2

Dylan Weber

Jordan W. Wilke
Also with a Major in Course IX

Edmund D. Williams, Jr.
(February, 2023)

Lola Carmel Wolf
Minor in Design

Madison Wong

Arun Wongprommoon
Also with a Major in Course XXIV-2

Andrew S. Wu
Also with a Major in Course V
Minor in Mathematics

David H. Wu
(February, 2023)

Hui Min Wu

Jasmine Wu

David T. Xiong
Also with a Major in Course VIII

Jessica Yulong Xu
Minor in Mathematics

Erika Yang
Minor in Literature

Hanna Yang
Also with a Major in Course XVIII

Jason Y. Yang
(February, 2023)

Jason Y. Ye
(September, 2022)

Marvin Zetina-Jimenez

Allen J. Zhang
(February, 2023)

Angela Cao Zhang
Also with a Major in Course XVIII

Angela Weilin Zhang
Minor in Anthropology

Angelina Zhang
Minor in Mathematics

Maggie Q. Zhang

Michael S. Zhang
Also with a Major in Course XVIII
Minor in Physics

Jenny Wu Zhao
Minor in Music
Minor in Japanese

Adam C. Zheng

Yiming Zheng
Minor in Mathematics
(See also M.Eng., Course VI-P)

Howard N. Zhong
Also with a Major in Course XVIII
Minor in Economics
(See also M.Eng., Course VI-P)

Alice S. Zhu
Minor in Mathematics

Ophelia M. Zhu

Xiaoyang Zhuang
Also with a Major in Course VIII
(September, 2022)

**Bachelor of Science in Artificial
Intelligence and Decision
Making**

Course VI-4
*Department of Electrical
Engineering and Computer
Science in conjunction with the
Schwarzman College of Computing*

Marlond G. Criollo
Minor in Music Technology

Tahmid M. Jamal
Also with a Major in Course XVI
Minor in Economics
Minor in Mathematics

**Bachelor of Science in
Computer Science and
Molecular Biology**

Course VI-7
*Department of Electrical
Engineering and Computer
Science in conjunction with the
Schwarzman College of Computing*

Amulya S. Aluru

Caroline Bao
Minor in Music

Xi Chen

Julia Graziella Contini
Minor in Economics

Brady J. Darby
Minor in Mathematics

Daniel R. Gutierrez
(February, 2023)

Hee Jae Hong

Uzuki Horo
Also with a Major in Sci., Tech., & Society

Bridget Li
Minor in Economics

Katherine Seungjoo Lim

Sherry Shu Yuh Nyeo
Minor in Management
Minor in German

Nten P. Nyiam
Minor in Mathematics

Mercy C. Oladipo

Jillian Emma Parker

Jacob Shapiro
Minor in Literature

Eren C. Shin
Also with a Major in Course IX

Julia Situ
Minor in French

Raina Win Yee Rachel Thomas

Emma Pascale Tysinger
Minor in Economics

Diane K. Zhang
Minor in Spanish

**Bachelor of Science in
Computer Science, Economics,
and Data Science**

Course VI-14
*Department of Electrical
Engineering and Computer
Science in conjunction with the
Schwarzman College of Computing*

Eric Bell, Jr.

Jordan Andre Anthony Billings

Kevin Bunn

Kristina Y. Chen

Aaron K. Fuchs

Lindsey C. Gambino
Also with a Major in Course XV-2

Ananya L. Gurumurthy
Minor in Music

Tyler D. Kim

Shivani Konduru
Also with a Major in Course XV-3

Sofie Elyse Kupiec
Minor in Business Analytics

Jason D. Lee
Also with a Major in Course XV-2

Jimin J. Lee

Matthew Ethan Leonard

Alice Martynova

Nicolas P. Minudri
Also with a Major in Course XV-3

Christina Marie Mirro
Minor in Mathematics

Dev P. Patale
(February, 2023)

Christopher W. Picard
Also with a Major in Course XV-2

Elizabeth Popkov

Francisco Rafael Proskauer Valerio

Kirsi Katherine Rajagopal
Minor in Mathematics

Federico Ramirez
Also with a Major in Course XXIV-2

Karyn Nicole Real
Also with a Major in Course XV-2

Evan J. Schaefer
Also with a Major in Course XV-2

Derek Shen

Anne Jegeris Snyder

Jay A. Theriault
Also with a Major in Course XV-2

Nicole Bjerre Toft

Nina Yusi Wang
Also with a Major in Course XV-2

Kailey Yang
Minor in Mathematics

Miriam C. Zuo
Also with a Major in Course XVIII
Minor in Business Analytics

Bachelor of Science in Chemical Engineering
Course X
Department of Chemical Engineering

Seraphin Wing Castelino

Jose Luis Gomez
Minor in Energy Studies

Oscar Guardado Chacón
Also with a Major in Course XV-3

Claire Aerim Kim
Minor in Environment and Sustainability

Kevin Li

Evan B. Moore

Hong Nguyen

Nigara Nizamidin

Duha Syar

Binette M. Wadda

Sandy Yang
Minor in Asian and Asian Diaspora Studies
Minor in Energy Studies

Victoria Y. Yang

Kara Angie Zhang
(February, 2023)

Bachelor of Science in Chemical-Biological Engineering
Course X-B
Department of Chemical Engineering

Lauren Meredith Abrahamsen
Minor in Environment and Sustainability

Benjamin D. Burke

Grace Ann Carlson
Also with a Major in Course VII

Stefan Damchevski
Also with a Major in Course XXI-G

Dominique C. De Fiesta
Also with a Major in Course VII

Giselle Duque
Minor in Literature

Freya Edholm
Also with a Major in Course XVIII-C
Minor in Chemistry

Alexis L. Jones
(February, 2023)

Michelle Mercedes Mantilla

Pragati Krithika Muthukumar
Also with a Major in Course VII

Josephine Olaitan Nonyelum Oshodi

Christian Paolo Otero
Minor in Computer Science

Mideum Abraham Park
Minor in Chemistry

Matthew Jonathan Sousa

Bachelor of Science in Engineering as recommended by the Department of Chemical Engineering
Course X-ENG
Department of Chemical Engineering

Ololade Oreoluwa Abdulai
Also with a Major in Course XV-1

Maela Grace Hickling
Minor in Chemistry

Nicole Brianna Jacobsen

Liliana Jelu Reyes
Minor in Business Analytics

Anna Mai
Minor in Management

Lizi Maziashvili
Minor in Computer Science

Dechen T. Rota

Daena A. Schuh

Hannah Marie Spilman
Minor in Environmental Engineering Science

Julia Grace Van Cleef
Minor in Computer Science

Julie Yu
Minor in Computer Science
(February, 2023)

**Bachelor of Science in
Aerospace Engineering**

Course XVI

*Department of Aeronautics and
Astronautics*

Frederick Henry Oladimeji Ajisafe, Jr.
Also with a Major in Course XXI-M

Brooke Madison Bensch
Minor in Management

Gabriella Lee Berrey
Minor in Spanish

Jared Ray Boisvert

Jared Boyer
Minor in Chinese

Robert L. Cato III

Matthew Hikaru Clingerman

Samuel Thomas Costa
Also with a Major in Course XVIII

Morgan Ferguson

Frank Gonzalez

Ari Goodwin Grayzel
(February, 2023)

Charlotte Hibdon Gump
Minor in Spanish

Cameron Philip Hilman

Summer A. Hoss

Frederick Seidel Humm

William C. Kupiec

José A. Lavariega-Gómez
Minor in Statistics and Data Science

Alexis Lepe
Minor in Russian and Eurasian Studies

Steven Liu

Amira Malik

Joshua Thomas Malone

Andrew C. Manwaring
Minor in Computer Science

Grace C. Mao
Minor in Mathematics

Matthew J. McGillick

Matthew L. Mora

John M. Oswald

Alberto Matias Peña

John Conrad Pendergrast
Minor in Political Science

Julian L. Powers

Jake T. Sonandres
Minor in Computer Science

Kyle A. Sonandres
Minor in Computer Science

Theodore George St Francis
Minor in Mechanical Engineering

Emma Catherine Taucus

Olivia Kathleen Tobin

Preston James Tower

Christopher E. Vargas

David von Wrangel
Also with a Major in Course VI-2

Erina Yamaguchi

Kwadwo A. Yeboah-Asare, Jnr.
Minor in Computer Science

Jawad Firas Yousef

Tai Zheng

**Bachelor of Science in
Engineering as recommended
by the Department of
Aeronautics and Astronautics**

Course XVI-ENG

*Department of Aeronautics and
Astronautics*

Naylah Sinclair Mathis Canty
Also with a Major in Course XI

Lauren Anne Carethers

Luke Joseph Antonio de Castro

Yonatan Wesenyeleh Delelegn
Also with a Major in Course VI-2
(February, 2023)

Paarth V. Desai

Angel R. Gomez Cruz

Ethan M. Hammons

Mohamed A. Mohamed
Also with a Major in Course VI-2

Joana N. Nikolova

Edward St. John Rivera
Also with a Major in Course VI-3

Austen J. Roberson
Minor in Computer Science

Akila Saravanan
Also with a Major in Course VI-9
Minor in Writing

Justin D. Schiavo

Blake T. Shepherd

Sienna Holly Williams
Minor in Computer Science

**Bachelor of Science in
Biological Engineering**

Course XX

*Department of Biological
Engineering*

Marissa Lynn Abbott
Minor in Chemistry

Soleh B. Anderlini
Minor in Environment and Sustainability

Rami A. Bikdash

Selam Tadesse Bulti

Kira Reese Buttrey
Minor in Spanish
Minor in Computer Science

Lauren M. Castle

Anjali R. Chadha
Also with a Major in Course XXI-L

Sophia W. Chen

Charles William Coffey III
Minor in Computer Science
(February, 2023)

Victor Michael Dampney
Minor in Spanish

Haley Kanoelani Evile
Minor in Linguistics

Daphne Alecia Faber
Minor in Spanish

Haley Madison Fernandez
Minor in Computer Science

Catherine Lynn Griffin
Minor in Computer Science

Sophie J. Guo
Also with a Major in Course VI-2

Melissa C. Hummel

Juan S. Ibarra Arriaga
Minor in Computer Science

Stuti Khandwala
Also with a Major in Course VI-3
Minor in Chemistry
Minor in Economics

Seung Hyun Kim

Sky Haneul Kim
Minor in Political Science

Preeti Sai Parimala Krishnamani
Also with a Major in Course XV-1

Marcos Labrado

Shirley Li
Minor in Computer Science

Louise Gabrielle C. Lima
Minor in Brain and Cognitive Sciences
Minor in Computer Science

Kathleen Ruth Love

Emmeline Rose MacPherson

Chloe Valpangha McCreery

Kacper K. Migacz

Vainavi Mukkamala
Also with a Major in Course VI-2

Bhuvna R. Murthy

Conrad Gregory Oakes

Lucia T. Padilla
Minor in German

Veronica Marie Perdomo

Sarah E. Pertsemliadis

Miriam L. Rittenberg

Reed Elizabeth Robinson

Isabella Grayce Salinas
Minor in Biology

Laura Schmidt-Hong

Shruthi C. Shekar
Minor in Entrepreneurship & Innovation

Seung Hyeon Shim
Minor in Chemistry

Christina Ta
(February, 2023)

Anru Tian

Abigail M. VanLonkhuizen

Sangita Vasikaran
Minor in Design

Kenneth J. Wei
Minor in Computer Science

Jennifer L. Wen
Minor in Brain and Cognitive Sciences

Veronica W. Will

Amber Elisabeth Williams
Also with a Major in Course VII

Alexandra N. Wolff

Jennifer X. Xiong

Megan L. Xu
Minor in Earth, Atmospheric, and Planetary
Sciences
(February, 2023)

Amy X. Zhong
Minor in Computer Science

Julian Zulueta
Minor in History of Architecture, Art and
Design

**Bachelor of Science in Nuclear
Science and Engineering**

Course XXII

*Department of Nuclear Science and
Engineering*

Francisco Arellano, Jr.
(February, 2023)

Brendan C. Vaughan
Minor in Economics
Minor in Energy Studies

**Bachelor of Science in
Engineering as recommended
by the Department of Nuclear
Science and Engineering**

Course XXII-ENG

*Department of Nuclear Science and
Engineering*

Alexander B. Bookbinder
Minor in Biology
Minor in Chinese

Loukas L. Carayannopoulos
(February, 2023)
(See also S.M., Course XXII)

Jaron F. Cota
Also with a Major in Course VIII

Calvin James Cummings
Minor in Mechanical Engineering

Katelin Du

Zoe Lilah Fisher
(See also S.M., Course XXII)

Arthur Samuel Zangi

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

Bachelor of Science in Economics

Course XIV-1
Department of Economics

Theodore Kingston Black
Also with a Major in Course XV-1

Gina Choi
(February, 2023)

Hannah Kim
Also with a Major in Course VI-2

Bachelor of Science in Mathematical Economics

Course XIV-2
Department of Economics

Sarah Rose Aaronson

Bachelor of Science in Political Science

Course XVII
Department of Political Science

David A. Spicer
Minor in American Studies

Bachelor of Science in History

Course XXI-H
History

Tobit Levin Glenhaber
Also with a Major in Course XVIII

Bachelor of Science in Music

Course XXI-M
Music and Theater Arts

Theresa C. Caso-McHugh

Carina R. Masuelli

Tristan S. Shin
Also with a Major in Course XVIII
Minor in Computer Science

Bachelor of Science in Writing

Course XXI-W
Program in Writing and Humanistic Studies

Mikel C. Carvajal
Minor in Comparative Media Studies

Alan Y. Zhu
Also with a Major in Course VI-3

Bachelor of Science in Humanities

Course XXI
Department of Humanities

Diane Mwizerwa

Bachelor of Science in Humanities and Engineering

Course XXI-E
Department of Humanities

Kidist E. Adamu

Jonah A. Baskerville
(September, 2022)

Anna G. Dawson
(February, 2023)

Luis Angel Dilone
(February, 2023)

Justin Thomas Ferris

Josephine Camille Tongson Mejia

Caroline D. Powers

Brinley L. Zhao

Bachelor of Science in Humanities and Science

Course XXI-S
Department of Humanities

Catherine Hong
Also with a Major in Course II-A

Bachelor of Science in Philosophy

Course XXIV-1
Department of Linguistics and Philosophy

Isaiah M. Jeremie
(February, 2023)

Bachelor of Science in Linguistics and Philosophy

Course XXIV-2
Department of Linguistics and Philosophy

Michelle Liu

Bachelor of Science in Comparative Media Studies

Program in Comparative Media Studies

John Wesley Lewis
Also with a Major in Course VI-3

Michael Hayden Teodros

SLOAN SCHOOL OF MANAGEMENT

Bachelor of Science in Management

Course XV-1

Sloan School of Management

Carson Glen Collard

Also with a Major in Course XIV-1

Abiola M. Familusi

Amanda S. Hu

Also with a Major in Course VII
(February, 2023)

Salome Otero Gutierrez

Valeria Robayo

Minor in Biology
Minor in German

Emily J. Tess

Marina Tosi

Minor in Comparative Media Studies
(February, 2023)

Bachelor of Science in Business

Analytics

Course XV-2

Sloan School of Management

Graham A. Cartwright

Also with a Major in Course VI-14

Min K. Cho

Minor in Computer Science

Oakley B. Dehning

Also with a Major in Course VI-14

Ankita T. Devasia

Minor in Chinese
Minor in Statistics and Data Science

Hudson Locke Hooper

Also with a Major in Course VI-3

Sawyer P. Koettters

Also with a Major in Course VI-14
Minor in Mathematics
(February, 2023)

Kathryn Michaela Linz

Also with a Major in Course XIV-2
(February, 2023)

Vivian Laura Lo

Minor in Computer Science

Matthew Fellows Nay

Also with a Major in Course VI-14

Christopher William Noga

Also with a Major in Course VI-14

Dana Osei

Shanaelle Liana Petty

David M. Vapnek

Also with a Major in Course VI-14

Henry H. Wang

Also with a Major in Course VI-14

Bachelor of Science in Finance

Course XV-3

Sloan School of Management

Anh Vu Hoang Dinh

Also with a Major in Course VI-4

Pamela M. Duke

Minor in Economics
Minor in Environment and Sustainability

Laurena Huh

Also with a Major in Course VI-14

Jakob Johannes Jarczyński

Minor in Economics

Ryan Taesan Kim

Kael P. Kordonowy

Minor in Economics

Lane Michael Lipschultz

Also with a Major in Course XIV-1

Tingyi Lu

Also with a Major in Course VI-14

Haran S. Nadarajah

Also with a Major in Course VI-14

Emuoghenekohwo J. Ogilo

Haley N. Samuelsen

Also with a Major in Course XVIII
Minor in Economics

Emily Minsi Wang

Minor in Economics

Anqi Yang

Also with a Major in Course VI-3

SCHOOL OF SCIENCE

Bachelor of Science in Chemistry

Course V
Department of Chemistry

Bader S. Almulhim

Anna S. Bair

Yu-Che Chien
Also with a Major in Course VIII

Nicholas J. Guiliano

Andrew D. Hennes
Also with a Major in Course VI-7
(See also M.Eng., Course VI-7)

Edward H. Jin
Also with a Major in Course VI-2
Minor in Mathematics
(See also M.Eng., Course VI-P)

Skyler Chloe Jones
Also with a Major in Course XXI-L
(February, 2023)

Jasmin A. Kern
Minor in Writing

Anton Ni
Also with a Major in Course XVIII-C

Jupneet K. Singh

Dion S. Sukhram
Also with a Major in Course VIII

Bachelor of Science in Chemistry and Biology

Course V-7
Department of Chemistry

Gabriella M. Aponte
Minor in Literature

Vinicius Figueira Armelin
Also with a Major in Course XX
Minor in Computer Science
(February, 2023)

Gabriel Alberto Caamaño Lasanta
Minor in Literature

Pedro A. Colón

Dhyey S. Gandhi
Also with a Major in Course VIII

Ruiyang Guo

Chae Rin Kim

Chanseo Lee

Albert C. Liu
Also with a Major in Course VIII

Sophia Marie Mirda

Anton Morgunov
Minor in Computer Science

Ejiro G. Omoruyi

Jeffrey S. Shi
(February, 2023)

Oliver Tan

Westley Wenbo Wu
Also with a Major in Course XVIII
Minor in Literature

Yu Meng Zhang

Bachelor of Science in Biology Course VII *Department of Biology*

Negin Amouei

Yu-Chi Cheng
Minor in Writing

Aslan Nalani Keiko Cook

Kenneth Leon Cox

Yueyang Fan

Gwyneth Abigail James

Sahithi Madireddy
Minor in Women's and Gender Studies

Emily McDermott

Liza D. Metcalf

Thao Phuong Nguyen

Shaida K. Nishat
Minor in Public Policy
Minor in Science, Technology, and Society
(February, 2023)

Stephany Panhasopheak Pang
Minor in Computer Science

Shirin Shahsavari

Madison Andrea Sneve
Minor in Brain and Cognitive Sciences
Minor in Ancient and Medieval Studies

Emily Jade Sullivan
Minor in Asian and Asian Diaspora Studies

Alexandra E. Vernich

Javier Antonio Vilá Ortiz

Bachelor of Science in Physics Course VIII *Department of Physics*

Faisal F. Alsallom

Daniel E. Amaya
Also with a Major in Course XVIII

Hillary Diane A. Andales
Minor in Astronomy
Minor in Science, Technology, and Society

Derek M. Baldwin

Luis Gabriel Carlos Bariuan

Maya Beleznyay
Minor in French

Kayla S. Berg
Minor in Music

Thomas Ross-White Bergamaschi
Also with a Major in Course VI-3

Vincent W. Bian
Also with a Major in Course XVIII-C

Lisa Nicole Blomberg
Also with a Major in Course XXI-M

Kylee Taelynn Carden
Minor in Astronomy
Minor in History

Aidan Durr Chambers

Ketandu D. Chiedu
Also with a Major in Course VI-3

Gabriela M. Corea
Also with a Major in Course II

Laura L. Cui
Also with a Major in Course XVIII

Mohit Dighamber
Also with a Major in Course VI-14
Minor in Business Analytics

Dahlia Louise Dry
Also with a Major in Course VI-1
Minor in Spanish

Jiahui Du
Also with a Major in Course VII

David Shen Fang
Also with a Major in Course VI-3

Crew James Fritsch

Tianhui Jie
Minor in Design

Ashish Kalakuntla
Also with a Major in Course VI-2
Minor in Mathematics

Anika Elizabeth Katt
Minor in Nuclear Science and Engineering

Timothy H. Kostolansky
Also with a Major in Course VI-3

Vedang Lad
Also with a Major in Course VI-2

Lauren Hsing-Tze Li
Also with a Major in Course XVIII

Chih-Lun Julian Liu
Minor in Mathematics

Richard Luhtaru
Also with a Major in Course VI-3

Luen Malshi

Ivan J. Marshall

Hendrik T. Mayer
Also with a Major in Course VI-3
Minor in Mathematics

Ilan Mitnikov
Also with a Major in Course VI-9

Alejandro D. Perez
(February, 2023)

Sahil Pontula
Also with a Major in Course VI-1

Sanjay A. Raman
Also with a Major in Course XVIII
Minor in Music

Anna Flora Rasmussen
Also with a Major in Course VI-7
Minor in Philosophy

Aden J. Rothmeyer
Also with a Major in Course XXIV-1
Minor in Biology

Orisvaldo Salviano Neto
Minor in Mathematics
Minor in Astronomy

Rila Shishido
Also with a Major in Course XXI-M
Minor in Astronomy

Pamela Stark

Emma Cecilia Stavropoulos
(September, 2022)

Luke M. Stewart
(February, 2023)

Xiangkai Sun
Also with a Major in Course XVIII-C

Joshua Torres

Anastasiia V. Uvarova
Also with a Major in Course VI-3

Ronald L. Vaughn II
Also with a Major in Course XXIV-1

Inoela Udela Vital

Brian L. Xiao
Minor in Mathematics

Julian R. Yocum
Also with a Major in Course VI-4

Daniela Alessandra Zaidenberg
Also with a Major in Course VI-2

Bachelor of Science in Brain and Cognitive Sciences

Course IX

Department of Brain and Cognitive Sciences

Chelsea C. Ajunwa
(September, 2022)

Reese M. Alley

Elizabeth Carbonell
Also with a Major in Course VII

Jimmy Chen

Maryann Uche Ogochukwu Chidume
Minor in Chemistry

Edmund S. Corcoran
Minor in Biology

Teresa H. Gao
Also with a Major in Course VI-3

Shelby Kaywalin Laitipaya
Also with a Major in Course VII
Minor in Music

Madison Rose Leone
Also with a Major in Course VII
(February, 2023)

Bezawit M. Sahile

Alexandra Renee So
Also with a Major in Course XV-1

Molly A. Stephens
(February, 2023)

**Bachelor of Science in
Computation and Cognition**
Course VI-9

*Department of Brain and Cognitive
Sciences in conjunction with the
Schwarzman College of Computing*

Alex S. Abate
(February, 2023)

Samar Abu Hegly

Samuel T. Acquaviva

Sami Rafat Amer

Brian Alton Bailey

Héctor F. Cantú Bueno
Also with a Major in Course XVIII
Minor in Biology
Minor in Statistics and Data Science

Dasha A. Castillo

Emma Allya Chabane
Minor in Spanish

Curtis C. Chen
Also with a Major in Course XXIV-2
(See also M.Eng., Course VI-9)

Alexis Dah-Eun Cho
Minor in Biology

Jesus Crespo

Itgel Delgerdalai
Also with a Major in Course XV-3

Otilia Don

Nicole E. Dundas

Sean Joseph Elliott
Also with a Major in Course XVIII

Kathleen N. Esfahany

Marie Diane Fadel

Crista M. Falk
Minor in Music

Jiahai Feng
Also with a Major in Course VIII
Minor in Mathematics

Ariel S. Fuchs

Willem J. Guter
Minor in Philosophy

Nelson Hidalgo Julia

Stephanie Pui-kay Howe

Miles Tsuji Hudgins

Raphaella Hyowon Kang
Minor in Biomedical Engineering

Nicole Kim

Sean E. Knight
Minor in Comparative Media Studies
Minor in Management

Noa Korneev

Eli Kramer

Linette Kunin
(See also M.Eng., Course VI-9)

Jiachen Elizabeth Lee
Minor in Mathematics

Siyi Lin
Also with a Major in Comparative Media
Studies
Minor in Chinese

Qingyuan Lu
Minor in Mathematics

Annika K. Magaro
Also with a Major in Course XVIII

Sofia Mireille Márquez
(February, 2023)

Kinan Remy Martin
Minor in Linguistics

Camila Meredith Miranda-Llovera

Thomas Tien Ngo

Anita Podrug

Hayley D. Popiel
(February, 2023)

Shreyaa Raghavan

Shruti Ravikumar
Minor in Entrepreneurship & Innovation

Nina J. Rhone

Shauntclair W. Ruiz

Somaia Rahman Saba

Varsha Reddy Sandadi

Miles B. Silva

David Ulloa
Also with a Major in Course XVIII

Alyssa Lauren Unell

Nico van Wijk

Kayla Marie Villa

Brigette L. Wang

Mingye Wang

Liane Z. Xu
Also with a Major in Course XVIII

Alexis Yang

Kaitlin W. Zareno

Katherine S. Zeng
Also with a Major in Comparative Media
Studies

**Bachelor of Science in Earth,
Atmospheric, and Planetary
Sciences**

Course XII

*Department of Earth, Atmospheric,
and Planetary Sciences*

Aviva B. Intveld
Minor in Archeology and Materials

Skylar Shell Larsen
Minor in Comparative Media Studies

Helena Anne McDonald

Kaitlyn E. Przydzial
Minor in Biology

**Bachelor of Science in
Mathematics**

Course XVIII

Department of Mathematics

Keita Tanabe Allen

Erik A. Anderson
Minor in Finance
Minor in Computer Science

CJ Angrist

Ilani S. Axelrod-Freed
Minor in Physics

Rose M. Bielak
Minor in Writing

Krit Boonsiriseth
Also with a Major in Course VI-3

Merrick Cai
Also with a Major in Course VI-2

Gabriela René Carcasson
Minor in Spanish

Hem Narayan Das Chaudhary
Also with a Major in Course X-B

Ahmed Zawad Chowdhury
Minor in Writing
Minor in Computer Science

Enrico Celestino Colón

Robert Volpe Cunningham
Also with a Major in Course VIII

Michael Ziyang Diao
Also with a Major in Course VI-2
(See also M.Eng., Course VI-P)

Justin Edwins
Minor in Computer Science

Alison Fang
Also with a Major in Course VI-14

Maria-Sophia Fedyk
Also with a Major in Course VI-3
Minor in Literature

Seth Joseph Fine
Also with a Major in Course VI-3

Siwakorn Fuangkawinsombut
Also with a Major in Course VI-3

Maritza A. Gallegos

Vishruti Ganesh
Also with a Major in Course VI-3
Minor in Music

Sarah J. Gao
Also with a Major in Course VI-14

Einat Gavish
Also with a Major in Course VI-3
Minor in Environment and Sustainability

Benjamin C. Grossman

Milan Haiman

Frank Y. Han
Also with a Major in Course VIII

Joseph W. Heerens
Also with a Major in Course VI-3

John W. Hegelmeyer

Xzavier W. Herbert
Also with a Major in Course XXI-M

Peter W. Hoffman
Minor in Finance

Brian R. Huang
Also with a Major in Course VI-3
(February, 2023)

Vincent Huang
Minor in Biology
Minor in Computer Science

Zachary Dylan Hunsucker
Also with a Major in Course VIII

Shawn S. Im
Also with a Major in Course VI-3

Sebastian J. Jeon

Catherine R. Ji
Also with a Major in Course VIII

Richter H. Jordaan
Also with a Major in Course XXI-L

Dain Kim
Also with a Major in Course VI-3

Joehyun Kim
Minor in Finance

Daishi Kiyohara
Minor in Physics

Abigail Jane Kolyer

Zachary E. Lee
Minor in Physics

Salvatore A. Lentine
Also with a Major in Course XV-2

Jacob Ryan Lerma

Alex J. Li

Anqi Li

Jeffery G. Li
Also with a Major in Course VI-3
Minor in Music

Jovita Li
Minor in Computer Science

Ayodeji Lindblad

Dylan K. Liu

Also with a Major in Course VI-3

Kevin J. Liu

Also with a Major in Course VI-3
(See also M.Eng., Course VI-P)

Lingyi Ma

Also with a Major in Course VI-3

Rachana Madhukara

Also with a Major in Course VI-2

Abraham I. Montes

Minor in Computer Science

Atharv V. Oak

Minor in French
(See also M.Eng., Course XX-P)

Ariana A. Park

Also with a Major in Course VIII
Minor in Economics

Mario A. Pereira

Sebastian A. Perez

(February, 2023)

Brandon Pho

Xiaoran Qu

Also with a Major in Course VI-3
Minor in Music
(See also M.Eng., Course VI-P)

Carl Joshua T. Quines

Also with a Major in Course VI-3

Tejas R. Rao

Brian E. Reinhart

Also with a Major in Course XXIV-2

Mohan Richter-Addo

Also with a Major in Course VIII

Aleksandre Saatashvili

Emille Alessandre Santos Sagastume

Also with a Major in Course VI-9
Minor in Music
Minor in Linguistics

Carl Benjamin Schildkraut

Minor in Computer Science

Jordan Ashley Sell

Minor in Computer Science
Minor in Statistics and Data Science

Carlos Andres Solano Saltachin

Minor in Computer Science

John I. Sragow

Also with a Major in Course VI-3

Daniel E. Stewart

Also with a Major in Course VI-3

Colin Tang

Andrew Lee Tockman

Also with a Major in Course VI-3
Minor in Linguistics

Anton Trygub

Also with a Major in Course VI-3
Minor in Philosophy

Naveen K. Venkat

Also with a Major in Course VI-3

Allen Wang

Also with a Major in Course VI-2

Rona Y. Wang

Also with a Major in Course VI-3

Caroline Clancy Warren

Also with a Major in Course VI-14
Minor in Business Analytics

Alexander R. Weiler

Minor in Computer Science

Ian T. Williams

Minor in Chinese

Derrick G. Xiong

Also with a Major in Course VI-3

Isaac S. Zhang

Also with a Major in Course VI-14

Stan Zhang

Also with a Major in Course VI-14
Minor in Business Analytics

Frederick Y. Zhao

Also with a Major in Course VI-3

William Zhao

Also with a Major in Course VI-3

Tianyuan Zheng

Also with a Major in Course VI-14
Minor in Music

Andy Y. Zhu

Minor in Computer Science

Daniel G. Zhu

Also with a Major in Course VIII
Minor in Political Science

**Bachelor of Science in
Mathematics with Computer
Science**

Course XVIII-C

Department of Mathematics

Mohammed I. Ahmed

Minor in Statistics and Data Science

Walker Anderson

Adam Ardeishar

Diego M. Arenas

Also with a Major in Course XV-2

Matthew A. Cho

Kaan Dokmeci

Elira Elshani

Enrique Esparza Villarreal

Minor in Economics

Olivia W. Fan

Zion M. Hadley

(February, 2023)

Alina Harbuzova

(February, 2023)

Diani K. Jones

Amber Liu

Also with a Major in Course XV-2
Minor in Writing

Gabrielle Kaili-May Liu

Also with a Major in Course IX

Albert Y. Luo

Andrew J. Mah

Steven C. Marquez

Minor in Mechanical Engineering

Mateo Monterde

Minor in Finance

Cecilia M. Munoz

Minor in Spanish

Oscar Puente

Mason Joe Reiter

Kyle Alexander Smith

Nicolas E. Suter

Also with a Major in Course XXI-M

Ivory Tian-hui Tang

Also with a Major in Course XV-1

Brendan M. Wagner

Minor in Economics

Sirena Xinying Yu

Minor in Japanese

SCHOOL OF ARCHITECTURE AND PLANNING

Master of Architecture

Course IV

Department of Architecture

Ous Abou Ras

Feeling Images of the Sun on Earth

Latifa Khalil Yaqoob Alkhayat

(February, 2023)

Fibers and Fragments: Weaving Local Resources into the Arabian Gulf's Modern Material Culture

Nada Khalid AlMulla

(February, 2023)

What's in a Poche?

Tim Charlie Tanguy Cousin

(February, 2023)

Thermal Collectives: Architectural Imaginaries Beyond Modern Comfort (with O.R. Faber)

Patricia Dueñas Gerritsen

(February, 2023)

Not as Planned

Olivier Renaud Faber

(February, 2023)

Thermal Collectives: Architectural Imaginaries Beyond Modern Comfort (with T.C.T. Cousin)

Zekun Fan

(February, 2023)

NEO-FOXCONN: Analysis and Redesign of Foxconn Campus

Julian Andrew Escudero Geltman

(February, 2023)

Loomings: The Sleep of Reason Produces Monsters

Paul Soren Gruber

(February, 2023)

Into the Rhino-Verse

Mojolaoluwa Esther Idowu

(See also M.C.P., Course XI)

Tabi. Tabbi. Tabique. Tabby

Jo C. Kim

(February, 2023)

Towards Public Housing: Architecture As (Prop)aganda

Zachariah Allan Kish-DeGiulio

Zanzibar Pizza Hut: Stone Town's

Duckorated Sheds

Katherine Emily Koskey

(February, 2023)

Beyond Topography: Remapping Appalachia

Angela Miriam Loescher-Montal

(February, 2023)

(See also S.M., Real Estate Development)

Nudging Permanence: Berlin's Regulations Meet Temporary Use

Samuel McCuaig May

(February, 2023)

Homebuilder's Songbook

Sasha McKinlay

(February, 2023)

Architecture Ad Lib: A Field Guide

Mariana Medrano

Murals

Sacha Gabriel Gregory Valentin Moreau

(February, 2023)

Disastrous Opportunities: Designing for Post-Hurricane Adaptivity Using Low Carbon Construction Methods on the Destroyed Site of Belle Creole, St Martin: A Construction Research Center

Yoonjae Oh

(February, 2023)

Not So Correct: Rebuilding with the Fragments of Memories

Natalie Pascale Pearl

(February, 2023)

Earthly Forces: Rethinking the Potential Energies of the Episodic, Dispersed, and Unpredictable

Vijay Gautham Rajkumar

(February, 2023)

Ultra-Smooth

Arthur Boscoli Salas Rodrigues

(February, 2023)

Archidrome

Ardalan SadeghiKivi

(February, 2023)

Doodlebugging: A Bayesian Methodology of Design

Tristan Searight

Eating On and Beyond the Infinite Corridor

Jinyoung Sim

(February, 2023)

Forward to the Past: Redesigning the Form and Flow of C2C Marketplace

Benjamin Alexis Tasistro-Hart

(February, 2023)

Building Enclosure

Yun Wang

(February, 2023)

The Architectural Coincidence: Guessing Consciously, Gauging Unconsciously (with H. Wu)

Emily Jane Wissemann

(February, 2023)

A Draft Resolution Supporting the Municipal Authority to Rearrange: A Non-Optimized Methodology for Doing Less

Haotian Wu

(February, 2023)

The Architectural Coincidence: Guessing Consciously, Gauging Unconsciously (with Y. Wang)

Ziyan Zhang

(February, 2023)

Wrinkles

Master of Science in

Architecture Studies

Course IV

Department of Architecture

Shubhekshya Bhandari

Unsettling Roads: Ethnographies of Dust Across Rural Nepal

Luna BuGhanem

Min B**id Lab**id (from Far to Far):

On Homemaking under Diasporic Conditions

Dimitrios Chatzinikolis
(See also S.M., Course VI)
Making Hands: Neural Implicit Manifold
Learning of Hand Gestures

Qingyi Duanmu

Ganit Goldstein
Fashioning Closed Loops Data-Driven
3D Printed Textiles for Customized
Garment Manufacturing

Mark Anthony Hernandez-Cornejo
The Vernaculars of Our Networks: From
the Cloud to a Plurality of Grassroots
Digital Infrastructures

Kecheng Huang
City as the Infrastructure of Innovation:
Insights and Proposals for Shaping
Shenzhen's Innovation Districts and
Knowledge-Based Industry

Pramada Jagtap
Humanizing Urban Waters: Civilian Led
Water Corps to Strengthen Decentralized
Water Systems in Western India

Jensen Avery Johnson
The (a)rchitectural Lexicon of (B)lack
Hair: A Production of Knowledge

Zain Karsan
(See also S.M., Course II)
Liquid Metal Printing

Il Hwan Kim
Geomorphic Concrete Material and
Fabrication Strategies for Heterogeneous
Concrete Morphology

Aikaterini Lamprou
(See also S.M., Course VI)
The Shape of Music. Computational
Specification of Hand Gestures in Piano
Playing

Yiwei Lyu
Early Stage Embodied and Operational
Analysis for Guiding Sustainable
Architectural Design Decisions

Kevin André Malca Vargas
Yaku Cosmo-Infrastructures Designing
with Water Across the Andes

Khushi Nansi
Her Playing Eye: Courtesans at Chess in
the Book of Games (c. 1283/84)

Pimpakarn Rattanathumawat
The Monkey Cheeks Toolkit: Design
Strategies for Mitigating Flood Impacts in
the Bangkok Metropolitan Area

Rohit Priyadarshi Sanatani
(See also S.M., Course VI)
PLACEIFY: A Data-Driven Framework
for Evaluation-by-Analogy in Early-Stage
Urban Analysis and Design

Zachary Steven Schumacher
Between the Lines: Encoding Relations
Through Body, Tool, and Algorithm

Huiwen Shi
(February, 2023)
Big Data Needs Small Data: Exploring
Digital Adaptability of Restaurants in the
Context of Covid-19 in Boston

Nanase Nakamura Shirokawa
When War Becomes Peace: Ruination
and Transvaluation in the Hiroshima and
Nagasaki Peace Memorial Parks

Jehanzeb Shoaib
Critical Cartographies of Transnational
Infrastructure-Led Urbanization

Afy Déborah Lauren Tsogbe
Limits of Expression: On Touch, Emotion,
and Communication

Han Tu
(See also S.M., Course VI)
Analyzing Affective Responses to Virtual
Spaces Using Physiological Sensors and
Verbal Descriptions

Mona VijayKumar
(September, 2022)
Ery Urbanism: Framework for Water
Inclusive Urban Growth in Chennai

Sarine Gacia Vosgueritchian
Looking for Pirdoudan: The Past, Present,
and Future of Mining in Armenia

Jiaqi Wang
Gaming Like a State: Historical Strategy
Game Victoria and "Keyboard Politics"
in China

Rui Wang
(February, 2023)
(See also S.M., Course VI)
City Image: A Dynamic Perspective
Using Machine Learning and Natural
language Processing

Ziyuan Zhu
(September, 2022)
(See also S.M., Course VI)
Unwanted Project: Speculative Design for
Circularity

**Master of Science in Art,
Culture and Technology**
Course IV
Department of Architecture

Christopher Joshua Benton
Utopic Déja Vu: The Power of the Public
Hallucination in the UAE

Cristóbal Hernan García Belmont
Re-Alimentaciones-Cruzadas: Procesos
de Re-Imaginación entre Epistemologías
Acústicas/Cross-Feedback: Re-Imagining
Relations between Acoustemologies

Kazi Ishraki
Performing Trans-Disciplinarity:
Exploring Subjectivity and Objectivity in
Knowledge Production

Tzu Tung Lee
(February, 2023)
Sailing in the Pirate Sea of Art

Wa Liu
(February, 2023)
Multispecies Syntopia: Collaborative
Survival in the Nuclear Anthropocene

Jose Alejandro Medina Bickford
Emergence: Speculative Ecologies &
Evolution in Art

Ashmi Mridul
Filling the Gaps - Exploring the Scope of
Arts-Based Education in Jodhpur

Su Yeon Mun
Strategies for Influential Interactivity in
the Physical Domain

Christie Nichole Neptune
Ah New Riddim: A Marked (Black)
Axiological Shift Across Space and Time

Hyun Woo Park

How to be Satisfied with Less-than-Perfect Finish

Luca Smith Senise

Rearrangements - Four Urban Experiments Between Soil and Sky

Master of Science in Building Technology

Course IV

Department of Architecture

Juliana Patricia Berglund-Brown

Structural Steel Reuse as a Cost-Effective Carbon Mitigation Strategy

Leilah Yadia Kelly Sory

Physics-Based Estimates of Structural Material Quantities for Urban-Level Embodied Carbon Assessment in Buildings

Zhujiing Zhang

(September, 2022)

Mitigating Peak Load and Heat Stress under Heat Waves by Scheduling Cooling and Energy Storage Systems

Master in City Planning

Course XI

Department of Urban Studies and Planning

Octavie Eleonor Berendschot

(September, 2022)

Power Play: An Historiographic about Women and Urban Renewal

Alexander J. Boccon-Gibod

Re-Stitching the Fabric: Urban Highway Removal as an Opportunity for Equitable, Sustainable Transformation

Nichollette Paige Cameron

(September, 2022)

Implementing (Up)Zoning for Affordability: A Seattle Case Study

Shaler Rodney Campbell

Repetitive Flooding in Riverine Towns: Understanding Responses, Barriers, and Challenges for the Future

Maria Daniela Castillo Castillo

A Participatory Photo-Mapping (PPM) Framework to Observe and Reflect on the Transformation of Public Space: The Case of the Paseo España Environmental Corridor in Bucaramanga, Colombia

Yuchen Chai

(See also S.M., Course VI)

Determinants and Interventions for Physical Activity Adherence during COVID-19: A Global Study Using Machine Learning Approach

Dylan Cohen

Power and Control in Disinvested Affordable Housing: San Francisco's Limited Equity Housing Co-operatives

Alberto Cuéllar Cerón

(See also S.M., Real Estate Development) Entrepreneurship as a Catalyst of Housing Quality in Colombia: Tervi

John Charles Devine

Civic Atlas: Open Government, Civic Tech, and Making Zoning Case Data More Accessible

Moctar Ndjido Fall

The Kids Table: A Report Conceptualizing Youth Empowerment and Food Planning Methods Through the Case Study of the Mattapan Food and Fitness Coalition

Ruoming Fang

(February, 2023)

Application of Deep Learning to Land Cover Classification: Practice and Strategies

Abby Kaplan Fullem

Collaboration in Unlikely Spaces: The Characteristics and Promise of Successful Collaboration Among Affordable Housing and Environmental Conservation Proponents

Rebecca Caroline Glasgow

(See also S.M., Real Estate Development) A Case Study: LIHTC -to-Condo Conversion

Jonathan Pei-Ying Goh

Welcome to Cambodia Town

Shivali Prakash Gowda

Multifamily Affordable Housing Energy Retrofit Strategy for Richmond, CA

Shannon L. X. Hasenfratz

Memorable, Legible, and Accessible Cities: Co-Stewarding Historic Preservation and Public Transportation Agendas in Boston and Hong Kong

Mojolaoluwa Esther Idowu

(See also M. Arch., Course IV)

Tabi. Tabbi. Tabique. Tabby

Melissa Isidor

(September, 2022)

Crossroads: Exploring How Micro Organizations That Leverage Design Shape Urbanism Practice

Sarah Elizabeth Jeong

(February, 2023)

Digital Tools and Design: Improving Participation in Policymaking

Sarah Emily Kalish

(See also M.B.A., Course XV)

Awarding Equitably: a process design framework for city grantmakers

Ipshita Karmakar

Disaster Diplomacy: The Spatial Impact of International Reconstruction Aid in the Aftermath of the 2015 Gorkha Earthquake in Nepal

Gina Hanhee Lee

(September, 2022)

Participatory Zoning: Collectivity, Contradictions, and the Politics of Inclusion in Neighborhood Planning

Sarah P. Lohmar

Strengthening Consumer and Retailer Responsibility for Textile Reuse and Donation in Cambridge and Boston

Jay Maddox

Any Port in the Storm: UK Freeports as a Typology of Governance

Idélcia Rebeca Domingos Mapure

(September, 2022)

Universities, Communities, and Service-Learning for Urban Development: Rethinking the Work of Kaya Clínica in Maputo, Mozambique

Tara Zarrin Mohtadi

Imagining and Building more Equitable and Democratic Systems: Lessons from Bay Area Organizations

María Jimena Muzio

Understanding Housing Supply under More Stringent Energy Efficiency Regulations

Ying Pan

Proposal for New Commuter Rail Service and TOD Master Plan along Guangzhou-Shenzhen Railway

Akrisht Pandey

(See also S.M., Real Estate Development)
Decarbonizing Metropolises: Analyzing New York's LL97 and Boston's BERDO Net Zero Policies

Ana María Pérez Carrillo

Hacer la vida en Ciudad Verde: Bringing Participatory Action Research to Colombia's Affordable Housing Macro-Projects

Pratiwi Prameswari

Affordable Housing Provision for Workers Constructing Nusantara, the New Capital City of Indonesia

Daniel Caesar Pratama

Balancing Accessibility & Affordability in Transit-Oriented Development Projects, Case Study: TOD Tanah Abang, Indonesia

Romy Saint Hilaire

Black Art Planning: Exhibition Manifesto

Amelia C. Seabold

Learning by Doing: Transitioning Healthcare Technology Innovations from MIT Labs to Resource-Scarce Communities

Ilana E. Strauss

How Cars Took Over America

Mikaela Strech

Co-Design for Equitable Adaptation: Site and Services Resiliency in Border Colonias

Ziyi Tang

(February, 2023)
Impacts of Automated Buses on Travel Mode Preference for Different Income Groups and Density Areas

Sharon Jacqueline Velasquez-Soto

(September, 2022)
Olympic Challenge: Designing Equity Into Mega-Events

Flavio Emilo Vila Skrzypek

The Story of Rubina: Lessons on Self-Governance in Peruvian Informal Settlements and Considerations for Community Land Trusts

Elaine Anne Wang

Hong Kong Time: Rethinking Sustainable Mobility and the 15-Minute City in the Context of Equity

Devon Rose Winer

Nature-Based Coastal Adaptation: A Comparative Assessment to Inform Effective Implementation

Lilian Xie

(February, 2023)
Art, Repair, and Spatial Justice in Boston's Chinatown and Seattle's International District

Master of Science in Urban Studies and Planning**Course XI**

Department of Urban Studies and Planning

Christina Kimberley Last

An Unsupervised Machine Learning Approach to Understand the Latent Characteristics Influencing Pedestrian Route Choice

Master of Science in Media Arts and Sciences

Program in Media Arts and Sciences

Justin Blinder

(September, 2022)
Walk Deserts

Yubin Cai

(September, 2022)
Wireless Sub-Cellular Sized Stimulators for Minimally Invasive Deep Brain Stimulation with High Spatiotemporal Resolution

Valdemar Munch Danry

AI-Enhanced Reasoning: Augmenting Human Critical Thinking with AI Systems

Kevin Frederick Dunnell

Latent Lab: Exploration Beyond Search & Synthesis

Mengying Fang

ColloGraphy: Designing Augmented Visual-Haptic Feedback Systems to Support Fine Motor Skill Learning

Dana W. Gretton

(September, 2022)
Platforms for Biological Control

Ayse Angela M Guvenilir

Modeling Gait Muscle-Reflexes Through Hindlimb Characterization in Rodents

Shivam Nitin Kajale

(February, 2023)
vdW Magnetic Materials for Spintronic Applications

Cassandra Elaine Overney

SenseMate: An AI-Based Platform to Support Qualitative Coding

Junqing Qiao

(February, 2023)
Methods for Ankle-Subtalar Joint Free-Space EMG Control

Jocelyn J. Shen

Modeling Empathic Similarity in Personal Narratives

Miana Mae Chi Smith

Recursive Robotic Assemblers

Jian Shen Tan

(September, 2022)
996, Moyu, and Involution: Tech Work in the Age of Platform Monopoly

Kushagra Tiwary

Discovering, Learning, and Exploiting Visual Cues

Raechel Dionne Walker

Liberatory Computing Framework: Empowering High School Students to Mitigate Systemic Oppression through Data Activism

Xiajie Zhang
(September, 2022)
Towards Building a Pedagogical Agent
That Supports Children's Exploration and
Home Literacy Education

**Master of Science in Real Estate
Development**
Center for Real Estate Development

Nile Berry
(September, 2022)
Modern Web Scraping and Data Analysis
Tools to Discover Historic Real Estate
Development Opportunities

Gregory Paul Bonomo
(February, 2023)
The Effects of Government Legislation
and Regulation in the 20th Century on
the Evolution of Commercial Real Estate
as an Investment Vehicle

Daryl John Burton
Novel Factors in REIT Pricing

Christopher Taylor Carr
(February, 2023)
(See also M.B.A., Course XV)
An Argument for the More Widespread
Use of Ground Leases in the United
States: How to Align Pertinent Interests
and Strategically Implement on an
Impactful Scale

Alberto Cuéllar Cerón
(See also M.C.P., Course XI)
Entrepreneurship as a Catalyzer of
Housing Quality in Colombia: Tervi

Elaheh Demircheli
(September, 2022)
Visual Communication of Key Concepts
in Commercial Real Estate Analysis and
Investment

Raquel Ganitsky White
(February, 2023)
Reduced-Carbon Envelope Systems for
More Sustainable Industrial Properties:
A Cost Analysis of Reducing Greenhouse
Gas Emissions

Emilio Gastelú Bárcena
(September, 2022)
Modern Portfolio Theory Applied to
Institutional Real Estate Investment

William Alexander Gietema III
Hedging a Falling Knife: Investing
Through the Post Covid-19 Dallas-Fort
Worth Housing Correction Utilizing Real
Options Strategy

Rebecca Caroline Glasgow
(See also M.C.P., Course XI)
A Case Study: LIHTC-to-Condo
Conversion

Gottfried Hans Hanschke
(September, 2022)
The Holistic Technology Impact Model

Zhiyuan Shawn Hu
Vertically Integrated Real Estate
Investment, Operation, and Community
Management

Juan Huicochea Mason
(February, 2023)
ESG Leverage for TOD. General
Framework and the Quantitative
Underwriting, Governance, and Policy
Case or Union Square

Ashley Katz
(September, 2022)
Two Shades of Green: The Balancing
of Affordable Housing Policy with
Sustainability Regulation in New York
City

Taeyong Kim
(February, 2023)
A Proposal to Improve Korea's Project
Financing Market Using Mixed Methods:
Qualitative Approach and AHP Analysis

Steven La
(February, 2023)
Sourcing Cheaper and Greener Capital
for Transit Oriented Developments

Qiaojun Lai
(February, 2023)
Have the Private Real Estate Funds
Out-Performed REITs on a Risk-Adjusted
Basis Over Time?

Carson Christopher Land
(September, 2022)
The Environment and Real Estate: How
to Develop for the Future

Ravisara Lertpunyaroj
(February, 2023)
How to Drive Thailand Developers
Toward Net Zero: Lesson Learned from
the Developers' Perspective and the
Global Studies

Angela Miriam Loescher-Montal
(February, 2023)
(See also M. Arch., Course IV)
Nudging Permanence: Berlin's
Regulations Meet Temporary Use

Mihir Manoj Menda
(September, 2022)
An Analysis of the Cost-Benefit of
Sustainable Transformation

Reilly John Nuckel
The Warehouse of the Future: The Impact
of Automated Technologies in Industrial
Assets

Akrisht Pandey
(See also M.C.P., Course XI)
Decarbonizing Metropolises: Analyzing
New York's LL97 and Boston's BERDO
Net Zero Policies

Benjamin Edward Perryman
Design Thesis - ReStacks

Rahul Sharad Raipelly
(February, 2023)
The Impact of Federal Reserve's Policies
on the Residential Mortgage Markets
(with C. Wamakima)

Shermika S. Roberts
(February, 2023)
International Investments in Luxury Real
Estate: An Evaluation of International
Real Estate Investors and Developers
Entering a Cross Continental Market

Luis Raul Rodriguez Escalante
(September, 2022)
The 15-Min Concept and Its Relationship
with the New Hybrid Culture:
Perspective from NYC

Katherine Gramercy Salvatori
(September, 2022)
Sea Level Rise and Commercial Office
Markets in Southeast Florida

Himanshu Tiwari

(September, 2022)

The Interconnection between Net-Zero Building Code and Rental Housing Affordability in Massachusetts

Zachary Taylor Vaughn

(September, 2022)

Building an Urban Life Sciences District in Midtown Cleveland: An Opportunistic Development Proposal that Requires Private and Public Collaboration

Corazon Wamakima

(February, 2023)

The Impact of Federal Reserve's Policies on the Residential Mortgage Markets (with R.S. Raipelly)

Francis Weiss

(February, 2023)

Increasing Workforce Housing in Miami

Soojin Whang

(February, 2023)

The Impact of Autonomous Vehicles on Real Estate Housing Market in the United States

Zehao You

A Synergistic Partnership: Decision-Making For Green Energy Adoption In China Data Centers For Sustainable Business Development

Sherina Shan Ling Zhang

(February, 2023)

Value Creation with Digital Real Estate in Web 3.0

Chen Zhao

(February, 2023)

Integration and Implementation of ESG Strategies for Real Estate Companies

Yue Zhao

(September, 2022)

RV Park and Mobile Home Park Investment and Development

Master of Science**(without specification of field)****Waleed Akbar**

Med. Arts & Sciences

(September, 2022)

Battery-Free Wireless Imaging of Underwater Environments

Ido Calman

Med. Arts & Sciences

Designing Novel DNA-Binding Proteins with Generative Deep Learning

Laura Alexandra Chicos

Med. Arts & Sciences

(February, 2023)

Resting State Neurophysiology of Agonist-Antagonist Myoneural Interface in Persons with Transtibial Amputation

Jason Frank Hou

Med. Arts & Sciences

An Implantable Piezoelectric Ultrasound Stimulator (ImPULS) for Selective Deep Brain Activation

Tzofi Malki Klinghoffer

Med. Arts & Sciences

Towards Automated Design of Machine Perception Systems

Kimaya Haripriya Manel Lecamwasam

Med. Arts & Sciences

Pharmamusicology: Exploring the Impact of Music on the Physiology and Psychology of Anxiety Disorders and Well-Being

David Preiss

Med. Arts & Sciences

(September, 2022)

Motor Design and Control for Scalable Distributed Actuation

Aastha Shah

Med. Arts & Sciences

A Conformable Ultrasound Patch for Cavitation Enhanced Transdermal Cosmeceutical Delivery

SCHWARZMAN COLLEGE OF COMPUTING

Master of Science in Computational Science and Engineering

Program in Computational Science and Engineering

Katharine Elizabeth Fisher
Efficient Prediction of Quantum Chemical Properties with Multitask Gaussian Process Regression

Jessica Karaguesian
(September, 2022)
Combining Density Functional Theory and Machine Learning for Optimization of Multicomponent Oxide Electrocatalysts

Julien Leonardo Luzzatto
Off-Lattice Kinetic Monte Carlo Methods for Long-Time Integration of Molecular Systems

Rashmi Ravishankar
(September, 2022)
Photovoltaics Detection on Satellite Imagery Using Deep Learning and Remote Sensing

Young Hyun Ryu
(September, 2022)
Adaptive Stochastic Reduced-Order Modeling for Autonomous Ocean Platforms

Aditya Karthik Saravanakumar
Coupled Nonhydrostatic-Hydrostatic Hybridizable Discontinuous Galerkin Method

Daniel Garner Sharp
Estimating Static Parameters in State Space Models Using Transport Maps

Corwin Wesley Stites
Acoustically Controlled Remotely Operated Undersea Vehicles: A Quantitative Analysis

Songchen Tan
Higher-Order Automatic Differentiation and Its Applications

You Xuan Thung
(September, 2022)
Applications of Computer Vision in Evaluating the Effects of New Housing Projects

Zhengkai Tu
(September, 2022)
Scalable Model for Reaction Outcome Prediction and One-Step Retrosynthesis with a Graph-to-Sequence Architecture

Master of Science in Social and Engineering Systems

Program in Data, Systems, and Society

Hussein Mozannar
Consistent Estimators for Learning to Defer to an Expert

Master of Science in Technology and Policy

Institute for Data, Systems, & Society

Miranda Nicolle Ahlers
Empirical Evaluation of Social Network Sensors on Twitter During the Russia-Ukraine Conflict

Allison Bell
Bending the ICT Curve: Evaluating Options to Achieve 2030 Sector-Wide Climate Goals & Projecting New Technology Impacts

Kali M. Benavides
Exploring the Role of Hydrogen in Decarbonizing Heavy Industry

Alexa Reese Canaan
(See also S.M., Course VI)
Benchmarking Residential Electricity Consumption: A Utility's Demand-Response Machine Learning Approach to the European Energy Crisis

Christina Chen
Inequities in Air Pollution Exposure in the U.S.: An Exploration of Disparity Metrics Across Geographic and Temporal Scales

Thandolwethu Zwelakhe Dlamini
(September, 2022)
Analysis of Top-Down Estimates of Mercury in the Atmosphere in the Context Mercury Emissions from Artisanal and Small-Scale Gold Mining in Latin America

Daniel Erkel
(February, 2023)
(See also S.M., Course XVI)
The Success of Emerging Space Actors: Effective Strategies in the NewSpace Era

Thomas Francis Galligani III
Remote Sensing, Inference, and Intelligence in the Information Environment

Shabnum Kaur Gulati
Addressing Organizational Barriers in Moving from Policy to Code

Yiran S. He
How to Go Greene: The Complex Dynamics of the Ongoing Transition in Southwestern Pennsylvania

Ryan Thomas Hetrick
U.S. AI Policy - A Balancing Act

Joy Kelly Jackson
Exploring the Role of Race and Place in Residential Solar Photovoltaic (PV) Adoption

Alejandro Antonio Jimenez Jaramillo
Developing Data Governance: A Comparative Analysis of Domestic Municipal Policies

Joonhee Kim
(February, 2023)
(See also S.M., Course VI)
Sensitivity of the Ozone Layer, Climate, and Public Health to Changes in the Location of Aviation Emissions

Peter Yu-Farn Liu
(See also S.M., Course XVI)
System Dynamics Modeling and Analysis of Continuous Production Agility: Policies and Enablers for Resilient Satellite Constellations

Qingyang Liu

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Unlocking the Potential of Hydrogen
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Global Assessment of Levelized Cost of
Hydrogen and Low Carbon Industrial
Hub Profitability

Kevin Matthew Paeth

(February, 2023)

Unassisted Humans Infer Personal Traits
from Facebook Group Memberships: An
Empirical Study with Implications for
Employers and State Entities

Allison Rosemary Shepard

Equity and Affordability Impacts of
Building Performance Standards: A Case
Study of New York City's Local Law 97

Nicole Xiaoyang Shi

Distributional Employment Implications
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Maja S. Svanberg

The Economic Advantage of Computer
Vision Over Human Labor, and Its
Market Implications

Disha Trivedi

(February, 2023)

Assessing Regional Sources of
Atmospheric Polycyclic Aromatic
Hydrocarbon Pollution and Associated
Human Cancer Risk

Alejandro Jose Valdez Echeverria

Quantifying the Financial Value of
Building Electrification Under Economic,
Policy, and Technological Uncertainty

Angelo Onorio Vozza III

Authentic Learning with Portfolios: A
Combination that K-12 Education Needs

Rui-Jie Yew

A Systems-Level Analysis of Algorithmic
Regulation

Jiao Zhang

(February, 2023)

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Improving Predictability of Wind Power
Generation

SCHOOL OF ENGINEERING

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Sabika Zehra Bharmal

Design and Optimization of Post Disaster Relief Structure

Austin Chen

Accelerating Topology Optimization Codes Using Mesh Refinement Continuation

Minghao Chen

Investigating the Influence of Interannual Precipitation Variability on Terrestrial Ecosystem Productivity

Ana Cristina Fiallo Van Eenenaam

Short-Term Wind Direction Forecasting for Wind Farm Control

Alexis Nicole Frankson

High-Throughput Photodegradation of Plastics

Meriah J. Gannon

(February, 2023)
Propagation from Meteorological Drought to Agricultural Drought Under Climate Change

Cyrian Henri Hallermeyer

Network Optimization-Based Approach for Identification of Illegal Trade in the Global Timber Supply Chain

Natasha K. Hirt

(See also S.B., Course IV)
Generative Structural Design: An Algorithmic Approach to Synthesizing and Optimizing Steel Lateral Systems

Jade Kuuleialoha Ishii

The Influence of Current and Ripple Development on Seagrass Transplant Survival

In Him Lee

Nature Based Solutions for Coastal Defense: Wave Attenuation and Economic Analysis of Marsh-Fronted Seawalls

Chelsea Karina Medina

Comparing Optimized Perimeter Steel Bracing of Tall Buildings under Different Seismic Regions

Shailey Patel

Static Stability and Seismic Safety of Brunelleschi's Dome of Santa Maria del Fiore

William Sharpe

Investigating Aerosol Composition Using Low Cost Optical Particle Counters

Margaret Suji Indiana Smith

Barriers to the Use of Computational Tools for Embodied Carbon Reduction in Structural Engineering Practice

John Alan Stark

Parametric Study and Early-Stage Structural Design for Tall Timber Buildings

Albertine Van Marcke

Stock-Constrained Optimization of Partially Disassembled Trusses

Aurélien Vasseur Bendel

Farm-Scale Water Management in Adaptation to Climate Change in Morocco

Karissa Jane Wenger

(See also S.B., Course I-ENG)
Historic Steel Beam Reuse: A Case Study of a 100-Year-Old Warehouse

Mollie M. Wilkinson

Materials Characterization & Spectroscopy for a Methane Abatement Catalyst

Colleen Marie Wolfe

Microneedles for Drug Delivery in Aquaculture

Haodi Xu

Comparing Phylogenetic and Deep Learning Methods to Predict Seed Dispersal Mode

Xinyi Zeng

Understanding Soil Carbon Signatures from Hyperspectral Reflectance Data using Spectral Unmixing

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Department of Civil and Environmental Engineering

Majed Almubarak

Effects of Experimental Conditions on Fracture Research Using 3D Printed Materials

Nayeli Guadalupe Arellano Martinez

(See also M.B.A., Course XV)
Visual Sort Marker Digitization in Sort Center Operations

Gregory Alan Cass

(See also M.B.A., Course XV)
Driving Growth Through Sales and Operations Planning, Inventory Management, and Supply Chain Expansion

Beatriz Goncalves Klink

Analytical Graphical Approach for Predicting Ground Conditions in TBM-Based Tunneling Construction

Scott Samuel Hungerford

(See also M.B.A., Course XV)
Improving Throughput in an Aluminum Rolling Mill Using Modeling and Optimization Techniques

Peter Emanuel Jacobson

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Optimization of Private Equity Investments for Industrial Carbon Emission Reduction

Miles David Kurtz

(See also M.B.A., Course XV)
Planogram Optimization in Support of Inventory Management

Taylor Pano Lyberger

(See also M.B.A., Course XV)
Towards Zero Defect Manufacturing in Electric Vehicle Battery Production

Kristen Anna Riedinger

(September, 2022)
A Survey of Superfund Chemicals in Massachusetts Farms

Julie Marie Sarasua
(See also M.B.A., Course XV)
Network Optimization of a D2C Supply Chain Subject to Changing Cost Conditions and Consumer Preferences

Lisa Grace Schleuter
(See also M.B.A., Course XV)
Site Material Supply Chain Optimization

Jason Anthony Teno
(See also M.B.A., Course XV)
Optimizing Apparel Pack Sizes Across Retailer's North America Network

Kaya Thomas Wilson
(See also M.B.A., Course XV)
Automated Guided Vehicles for Material Flow in Fulfillment Centers

Alura Danan Vincent
(See also M.B.A., Course XV)
Scenario Planning Framework & Sensitivity Analysis for New Orthopedic Sets in the Spine Platform

Joshua Ian Weisberg
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Enhancing Manufacturing Performance to Plan with Predictive Analytics

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Imane Ait mbiriq
(September, 2022)
Remote Clinical Trials Operations: Supply Chain Management and Framework Development

Hassan Husni Ajami
(September, 2022)
Integration of Additive Manufacturing with CNC Sheet Metal Fabrication for Hybrid Fixtures: Design and Implementation of Sheet Metal Tooling Supports

Henri J. Bataille
(September, 2022)
From Prototype to Production: Focus on Manufacturing for Low Volume Production of an Industrial Milk Analyzing Device

Russel Bradley
Design and Manufacturing of Educational Fiber Extrusion Device and Smart Factory

Andrew Thomas Cunningham
(September, 2022)
Integration of Additive Manufacturing with CNC Sheet Metal Fabrication for Hybrid Fixtures: Design and Implementation of Powder Bed Fusion Tooling Surfaces

Ibrahim Hassan El Khatib
(September, 2022)
Integration of Additive Manufacturing with CNC Sheet Metal Fabrication for Hybrid Fixtures: Design and Implementation of Precision Assembly Interfaces

Rachael Michelle Flam
(September, 2022)
Laser Powder Bed Fusion Process Characterization: Design of Experiments for Dimensionally Accurate Thin Walls

Benjamin Casey Graybill
(September, 2022)
Framework to Accelerate Parameter Development for Laser Powder Bed Fusion

Maya Padmini Kota
(February, 2023)
Using Optical Imaging and Image Processing to Verify Initial Layer Setup in a Laser Powder Bed Fusion Process

Aviva Jesse Levi
(September, 2022)
Design and Manufacturing of the Extrusion Assembly for an Advanced Process Control Educational Device

Rui Li
(September, 2022)
Design and Manufacturing of the Filament Collection and Diameter Measurement Systems of Fiber Extrusion Device for Educational Purposes

Xiaomeng Li
(September, 2022)
From Prototype to Production: Product Development of a Modular Automated Milk Sampling Device for Conventional Dairy Farms

Xuan Yi Lim
(September, 2022)
Characterization of the Surface Roughness of Overhangs Manufactured by Laser Powder Bed Fusion Process Using Design of Experiments

Ryan Lin
(September, 2022)
Framework Development for Remote Clinical Trials: Assembly Process Design

Jane Ellen Modes
(February, 2023)
Optical In-Process Monitoring Tools for Laser Powder Bed Fusion: Verifying Powder Area Coverage of a Layer Setup

Joyce Noh
Packaging Design for Remote Clinical Trial Operations

Mohamed Ayman Othman
(February, 2023)
Application of Machine Learning in Process Control in Optical Fiber Manufacturing

Luis Fernando Rodriguez Cabrera
(September, 2022)
Warehouse Automation: Improvements for the Precise Placement of Irregular Pallets

Tanach Rojrungsasithorn
(September, 2022)
Factory and Material Flow Design for Mass Production of an Advanced Process Control Educational Device

Satvik Irappa Sabarad
(September, 2022)
Correlating Displacement Sensors and In-Situ Optical Imaging for the Layer Management in a Laser Powder Bed Fusion Process

Maelle Jade Sardet
(February, 2023)
A Data-Driven Approach to Improve Optical Fiber Manufacturing: Focus on Core Deposition

Nilay Sanjay Sawant
(September, 2022)
Feasibility Study of Transfer Learning on LSTM Recurrent Neural Networks for Fiber Manufacturing Commercialization

Carly Madeleine Smith

(September, 2022)
Remote Clinical Trial Operations: Patient Education for Medical and Wearable Device Use

Benjamin Thomson

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From Prototype to Production: Scaling an On-Farm Milk Analyzing Device to Low Volume Production Using Design for Manufacturability and Assembly

Jayna Wittenbrink

(February, 2023)
Using Displacement Sensors to Characterize Critical Powder Layers in Laser Powder Bed Fusion

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Marwa AlAlawi

A Design and Fabrication Pipeline for Integrating Rotary Encoders into 3D Printed Mechanisms

Michael Whitney Aling

(September, 2022)
An Electrochemical Sensor Development Platform

Samair Alyassini

Laser-Induced Particle Impact Testing in High-Pressure Oxygen Environments

Nicolas Arons

(September, 2022)
Human Interaction with Various Elliptical Constraints

Erik Nicholas Ballesteros

Supernumerary Robotic Limbs for Next Generation Space Suit Technology

Adam Harrison Barber

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Modeling Passenger Electric Vehicle Charging Demand with Machine Learning Using Telematics Data and Temperature

Zeina Nedal Barghouti

Preservation and Deployment of Biofertilizers to Mitigate Soil Phosphorous Loss from Agricultural Systems

Ryan Timothy Benz

(February, 2023)
A Silicate-Based Packaging Material for 3-D Heterogenous Integration of Microsystems

Elizabeth Marie Bernhardt

Linking Amine Physicochemical Properties and Electrochemical Activity for Aqueous Reduction of Captured-State CO₂

Michael Bichnevicius

Design and Characterization of a Pumped Circulation Loop for Molten Chloride Salt

Michael James Bishop

Preventing Stern Tube Corrosion through Shipboard Cathodic Protection

Heather Genevieve Bowman

(February, 2023)
Novel Treatment of Anal Fistulas and Endovascular Drug Delivery for Peripheral Arterial Disease

Casey Storm Bradt

A Study of the Effects of Piston Secondary Motion on Piston Ring Conformability and Coolant Cavitation in Heavy-Duty Engines

Antonia Delores Bronars

(September, 2022)
Estimating Global Object Pose from Tactile Images

Angel Bu

Investigating the Impact of Biochemical and Mechanical Stimuli on Motor Neuron Growth

Thomas Butruille

Effect of 3D Architecture on Energy Dissipation during High-Speed Particle Impact

Dylan James Carberry

Limpet Shell Growth: A Kinematic Framework

John Harris Cathcart IV

(See also Naval E., Course II)
Integration and Implementation of Conceptual Design Tools for Naval Warships

Kelsey O'Brien Cathcart

(See also Naval E., Course II)
Detrainment and Settling of Sediment in Turbidity Currents: A Study to Inform Deep Seabed Mining

Avi Chatterjee

(See also S.M.(N.A.M.E.), Course II)
Design and Modeling of Shipwide Navy Integrated Power and Energy Corridor Cooling System

Natalie Alyssa Chehrizi

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Driving the Future of Long-Haul Trucking: Realizing the Potential of Battery Electric Vehicles through an Analysis of Financial and Environmental Impacts

Jaehun Choe

(February, 2023)
Semi-Autonomous Magnetic Manipulation for Endovascular Navigation

Shreya Dhar

(September, 2022)
Design and Analysis of a Desktop Fiber Manufacturing Device

James Michael Donegan

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Sustainability Analytics – Meeting Carbon Commitments Most Efficiently

Camilo Duque Londoño

(See also Naval E., Course II)
A Hydrogel Adhesive Marine Sensing System: Design, Mechanism and Applications

Kristen Marie Edwards

(September, 2022)
Accelerating the Design Process Through Natural Language Processing-Based Idea Filtering

Seiji Hoshino Engelkemier

Opportunity for Long Duration Storage Technologies: Thermal and Compressed Air Energy Storage

Nicholas Francis Esposito
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Make vs. Buy Optimization for Industrial Distribution and Manufacturing Company

Dylan Steel Fife
Temperature and Thermal Noise Suppression for Precision Mechanical Experiments

Peter Fisher
Fast Adaptive Laws for Adaptive Control Under Stochastic Disturbances

Ryan Maximiliano Flores
(September, 2022)
Material Handling for Continuous Lyophilization Process

Megan Camille Flynn
Exploring Maneuvering Strategies for Heterogeneous Cooperative Navigation in Underwater Environments

Michael Foshey
(February, 2023)
Embroidered Multi-Modal Sensing Arrays for Tactile Perception

Avery Gilbert Fullerton
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Ship-Pack Optimization to Minimize Fulfillment Costs from Manufacturing to Customer

Lauren Marie Futami
(September, 2022)
Temperature Disparity Comparisons for Campus Heat Vulnerabilities

Francisco Javier Galindez de Jesus
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Integrated Energy Modelling Tool for Electric and Gas Infrastructure Decision Support

Qiyun Gao
A Novel Device For the Treatment of Obstructive Sleep Apnea

Daniel E. González Díaz
(February, 2023)
Real-Time Self-Collision Avoidance for Dynamic Legged Robots

Fiona Grace Gouthro
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Innovation Process at Omnichannel DCs Undergoing Shifts in Channel Mix

Ethan Logan Greene
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Development of a Student Operated Production Facility Using Discrete Event Simulation and Continuous Improvement

Anubhav Guha
(September, 2022)
AC-RL: A Framework for Real-Time Control, Learning, and Adaptation

Toni-Rose Maico Guiriba
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Improving Supply Chain Resiliency through Aseptic Connector Alignment and Standardization

Menglong Guo
(September, 2022)
Design of Fingertip Sensors and 7-Dot Hands for Robotic Manipulation

Zoe L. Hinton
(See also M.B.A., Course XV)
Enhanced Digital Capability through the use of Simulation in Footwear Product Creation

Jacob Tyler Hopkins
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Performing Actionable Evaluations of Sustainability Investments

Ori Hoxha
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External Network Manufacturing Capacity Design and Procurement in the Pharmaceutical Industry

Mariam Elisabeth Ibrahim
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Developing a Data-Driven Strategy for In-Process Quality Assurance for Additive Manufacturing

Aman Jalan
(February, 2023)
Neural Closure Models for Chaotic Dynamical Systems

Justin Leon Jiang
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Digital Supply Chain Connectivity and Capacity Analysis for Strategic Production Planning in Biosurgery Oxidized Regenerated Cellulose

Kyle Siyu Jiang
(September, 2022)
Design Guidelines for Sulfonyl/Sulfamoyl Fluoride Additives to Modulate Lithium Anode Coulombic Efficiency

Tal Joseph
Enhancing Gas Absorption with Nanoengineered Surfaces for Bubble Manipulation

Alex Kachkine
Additively Manufacturing High-Performance, Low-Cost Electrospray Ion Sources for Point-of-Care Mass Spectrometry

Zain Karsan
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Liquid Metal Printing

Samantha Violet Killy
(September, 2022)
Towards Active Object-Based Navigation

Hyeonseok Kim
3D-Printed, Internally Fed Electrospray Thruster

Benjamin C. Koenig
Enabling Efficient Uncertainty Quantification of Turbulent Combustion Simulations via Kinetic Dimension Reduction

Jomi Saxl Kramer
(See also M.B.A., Course XV)
Outside Inside, Inside Around: Leveraging External Innovation Through Strategic Corporate Venture Capital Investment

Matthew Thomas Kruse
(See also S.M.(N.A.M.E.), Course II)
Preliminary Shipboard Layout of Navy Integrated Power and Energy Corridor (NiPEC)

Zachery Wolfgang Kutschke

Design and Commissioning of a Hybrid Additive Manufacturing System Combining Inkjet Deposition and Laser Powder Bed Fusion

Tioga Jasper Laird Benner

Design of a Portable Device to Detect Per- and Polyfluoroalkyl Substances (PFAS) in Water

DoYoon Lee

Layer-by-Layer Single-Crystal Two-Dimensional Material Growth by Geometric Confinement

Sheng-Hung Lee

(September, 2022)
(See also S.M., Engineering and Management)
Human-Centered System Design for an Aging Population: An Experimental Study of Footwear Design

Chenyang Li

(September, 2022)
Thermodynamic Modeling and Design of High-Performance Adsorption-Based Atmospheric Water Harvesting Devices

Heyi Li

Towards Low-Cost Context Awareness on Smart Shelving Using Passive UHF RFID Infrastructure

Mo Li

(February, 2023)
Experimental Investigation of the Blowby Effect on the Three-Piece Oil Control Ring and Subsequent Oil Transport in Transient Engine Working Conditions

Xuanhe Li

(September, 2022)
Investigation of Thermo-Chemo-Mechanically Coupled Phenomena in Frontal Polymerization

Emily Lin

High Energy Density Entrainment-Based Catalytic Micro-Combustor for Portable Devices in Extreme Environmental Conditions

Qian Lin

Path Planning for Trajectory Guided Freehand Ultrasound Scan

Lisa Liu

(See also M.B.A., Course XV)
Model-Based Technology Roadmapping of Fuel Cells in Sustainable Aviation Applications

Kyle J. Lux

(See also M.B.A., Course XV)
Identifying Bottlenecks through Process Consistency in High-Capacity Automated Manufacturing

Naomi Lana Lynch

Flexure-Based Devices Enable Precise Quantitative Monitoring of Muscle Performance

Uriel Magaña-Salgado

(February, 2023)
Methods for Physiologic Tremor Characterization, Mitigation, and Modeling

Crystan Symone McLymore

Real-Time Radiation Detection within the Gastrointestinal Tract

Igor Mogilevsky

(February, 2023)
(See also S.M.(N.A.M.E.), Course II)
Shipping Decarbonization through Sea Route Optimization & Vortex Generator Resistance Reduction

Daniel Patrick Moriarty

(September, 2022)
(See also S.M., Course III)
Effects of Strain on Activated-Aluminum-Water Reactions

Madison Christine Myers

(See also M.B.A., Course XV)
On-Site Hydrogen Production via Distributed Methane Pyrolysis

Joushua G. Padilla

Characterizing the Thermal Behavior of Pyrolytic Graphite Sheets (PGS) at Low Interface Pressures

Anjali Parashar

Accelerated Algorithms for Constrained Optimization and Control

Palak B. Patel

(September, 2022)
Experimental Nanoengineering of Multifunctionality into an Advanced Composite Laminate

Isabelle Claire Patnode

Protecting Our Investment: Solving Fast Response Cutter Corrosion

Linda Pratto

Internal Combustion Engine Performance using Aluminum as Fuel

Jiajie Qiu

Active Vibration Suppression for Wafer Transfer Systems in Semiconductor Fabrication Plants

Diego Alonso Quevedo Moreno

A Soft Robotic System for Mechanical Assistance to the Diaphragm

Madison Reddie

Redesigning Diabetic Foot Risk Assessment for Amputation Prevention in Low-Resource Settings: Development of a Purely Mechanical Plantar Pressure Evaluation Device

Preston W. Rhodes

Characterizing Hydrodynamic Interactions of Underwater Vehicles in Close Proximity Using an Identical Ellipse Pair

Jean Carlos Roman

Single Degree of Freedom Solid Rotar Velocity Control Induction Drive

Edvard Ronglan

(See also S.M., Course VI)
Bayesian Optimization and Cartesian-Grid Simulations for Artificial Reef Design

Darron Robert Sandifer

(See also M.B.A., Course XV)
Continuous Improvement Framework for a Multi-Model Production Line

Alejandro R. Sevilla

(February, 2023)
Elucidating Concentration and Temperature-Dependent Energy Limitations of a Novel Fluorinated-Organosulfur Catholyte for Li Primary Batteries

Zhiyuan Shu

Development and Application of Elastohydrodynamic Lubrication Model for Piston Pin

Allison Rhett Smedberg
(See also M.B.A., Course XV)
From Bench to Bucks: An Approach and Case Study in Scaling Additive R&D Technologies within the Aerospace Industry

Brandon Drumright Snow
Modeling Microvoid Localization with Explicit Finite Element Analysis

Jonas Sogbadji
Impact of Lesion Preparation-Induced Calcium Fractures in Vascular Intervention for Atherosclerotic Disease: In Silico Assessment

Lucas Kistner Stone
(See also Naval E., Course II)
Oscillating Energy Harvester for UUV Applications

Rachel Sun
Acoustic Metamaterials at the Microscale

Jonathan N. Tagoe
Design and Testing of a Respiratory Simulator for the Optimization of Soft Robotic Assistive Breathing Devices

Annika Elizabeth Thomas
Innovative Structural and Mechanical Satellite Systems

Max T. Thomsen
Local Shape Estimation Using Mechanochromic Structurally-Colored Tactile Sensors

Megha Harishree Tippur
(September, 2022)
Design and Manufacturing Methods for a Curved All-Around Camera-Based Tactile Sensor

Jacob Andrew Tomasovic
(See also M.B.A., Course XV)
Manufacturing Integration: Managing Throughput and Organizational Change

Jimmy T. Tran
Mapping the Electrodialysis Architecture Design Space by Determining Optimal System Configurations for Different Production Outputs

Jillian Marie Uzoma
(See also Naval E., Course II)
Predicting Interactions Between Energy Saving Devices on Surface Ships

Lois Amelia Wampler
(February, 2023)
A Doppler Radar Lock-In Demodulation Algorithm for Machine Vibration Sensing

Mallory M. Whalen
High-Precision Stress Measurement in Thin Films for X-Ray Mirrors

Jadal Nyles Williams
A Koopman-Based Reduced-Order State Observer for Visual Localization of Robots

Robin Willis
Design Change Propagation in Complex Systems: Industry Processes and Perceptions

Alexander Joseph Wunderlich
(See also Naval E., Course II)
Feasibility Study of a Linear Generator Wave Energy Converter With Adaptive Bistable Control

Haiqian Yang
(September, 2022)
Spatial Organization of Multicellular Living Systems

Ahmad Zakka
Measurement and Analysis of Lubricant Oil Consumption in a Single Cylinder Hydrogen IC Engine

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Avi Chatterjee
(See also S.M., Course II)
Design and Modeling of Shipwide Navy Integrated Power and Energy Corridor Cooling System

Matthew Thomas Kruse
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Preliminary Shipboard Layout of Navy Integrated Power and Energy Corridor (NiPEC)

Igor Mogilevsky
(February, 2023)
(See also S.M., Course II)
Shipping Decarbonization through Sea Route Optimization & Vortex Generator Resistance Reduction

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Camille Catherine Farruggio
Analysis and Modulation of Manufacturing Conditions for Improved Cell Therapeutic Efficacy

Christopher John Karpovich
(See also S.M., Course VI)
Machine Learning Enabled Inorganic Synthesis Planning and Materials Design

Daniel Patrick Moriarty
(September, 2022)
(See also S.M., Course II)
Effects of Strain on Activated-Aluminum-Water Reactions

Serita Lynne Sulzman
Processing and Thermal Stability of Nanocrystalline Ag-Cu Alloys

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Department of Electrical Engineering and Computer Science in conjunction with the Schwarzman College of Computing

Liam James Ackerman
(September, 2022)
Leveraging Engineering Expertise in Deep Reinforcement Learning

Ikechukwu Daniel Adebi
Landslide Susceptibility Prediction Adaptive to Triggering Events

So Hee Ahn

Multimodal Data Fusion for Deep Learning Applications in Intracoronary Image Segmentation

Raul A. Alcantara Castillo

Frientelligent: Autonomous Multi-Agent Collaboration, Competition, and Interaction Curriculum for Young Children

Obada M. Alkhatib

(September, 2022)
Sampling Methods for Fast GNN Training

Harrison M. Allen

(September, 2022)
NeuroModular - A Modular Backend for Fiber-Based Wireless Bioelectronic Interfaces

Connor W. Anderson

(September, 2022)
Implementation of Vision-Based Autonomous Navigation in Pedestrian Environments

Joshua C. Ani

(February, 2023)
Unsimulability, Universality, and Undecidability in the Gizmo Framework

William A. Archer

(February, 2023)
Visual Charting of Classified Audio Data

Riya Arora

(See also S.B., Course VI-3)
Understanding Human Perception Through Mooney Faces

María Ascanio Aliño

(See also S.B., Course VI-3)
Testing for Subtle Cognitive Impairments in a Clinically Informed iPad Platform

Nithya Sri Attaluri

(See also S.B., Course VI-2)
A Hardware Accelerator for Sparse Matrix Multiplication and Sparse Convolution

Reginald Davis Best, Jr.

Building a Dataset and Developing a Video Event Classifier for Football

Christopher J. Blazes

(September, 2022)
Algorithmic Approaches to Interfacing Different Materials Using Inkjet Multi-Material 3D Printers

Grace Cai

(February, 2023)
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Geometry-Sensitive Swarm Algorithms

Paul G. Calvetti, Jr.

Optimizing the Allocation of Capital among Offensive Positions in the NFL

João Lucas Camelo Sá

Applications of Deep Learning to Financial Time Series Forecasting

Michael R. Cantow

ThoughtLine Web Server for Mental Health Wellness and Psychotherapy

Emily I. Caragay

Broken Expectations, Broken Concepts: A New Diagnosis of Dark Patterns

Grecia Castelazo

(September, 2022)
Prospects for Quantum Equivariant Neural Networks

Colin P. Chaney

(September, 2022)
Long Term Measurement of Bandgap Voltage and System Level Integral Non-Linearity Drift

Christopher W. Chang

(September, 2022)
S*: Geometric Multimodal Trajectory Optimization via Apex Interpolating Spiro Splines

Ashley Chen

Privacy-Preserving Natural Language Dataset Generation

Jeffrey T. Chen

(September, 2022)
SafeGENIE: Secure and Federated Linear Mixed Model Association Tests

Shiqi Chen

Bi-Directional Flyback Converter Circuit Design for Flapping-Wing Microrobots

Valerie K. Chen

Grid Inference and Partial Scan Registration for Intelligent Collaborative Robot Systems

William Chen

Applications of Large Language Models for Robot Navigation and Scene Understanding

Henry Y. Cheung

(February, 2023)
Computing Fibers: Architectures and Applications

Prem Chintalapudi

Reducing Compilation Latency in the Julia Programming Language

Jung Soo Victor Chu

Automated Pipelines for Information Extraction from Semi-Structured Documents in Structured Forma

John B. Cook

(February, 2023)
An Effective Platform for Assessing Cognitive Health

Alex C. Cuellar

(September, 2022)
Inference and Task Planning over Spatially Complex Problems

Howard DaCosta III

Configurable Online Multi-Tiered Storage in Database Management Systems

Haimoshri Das

Improving Segmentation and Registration of the Placenta in BOLD MRI

Michael Ziyang Diao

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Proximal Gradient Methods for Gaussian Variational Inference: Optimization in the Bures-Wasserstein Space

Alejandro Daniel Lino Diaz

(February, 2023)
Monolithically 3D-Printed, Quadrupole Mass Filter for High-Precision, Compact, CubeSat Mass Spectrometry

Alexandra Dima

(February, 2023)
GSTACO: A Generalized Sparse Tensor Algebra Compiler

Laura N. Dodds
(September, 2022)
A Portable Handheld Fine-Grained RFID
Localization System with Complex-
Controlled Polarization

Yun Shwe Eain
Understanding Impact of Life
Experiences on Performance and
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Computer Science MOOC

Gabrielle Edyt Ecanow
Debug Tutor: Automated Deliberate
Debugging Practice for Undergraduate
Programmers

Daniel G. Edelman
Energy Requirements of Computer
Vision Training

Tareq El Dandachi
(February, 2023)
Efficient Simulation of Large-Scale
Superconducting Nanowire Devices

Dean Fanggohans
(See also S.B., Course VI-3)
Defio: Instance-Optimized Fusion of AWS
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Amir Farhat
(September, 2022)
Increasing DoS-Resilience for Cross-
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Manuel Alejandro Favela
(September, 2022)
Investigating Different Image
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Hannah Margaret Field
(February, 2023)
Magnetothermal Modulation of Nerve
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Alisha Fong
NDF-Based API for Human-Assisted
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Reed A. Foster
Large Scale Superconducting Circuits
with Nanocryotron Logic

Sebastian L. Franjou
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Arty: Expressive Timbre Transfer Using
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- Dhruv W. Rohatgi**
(February, 2023)
Computationally Efficient Reinforcement Learning under Partial Observability
- Branden Robert Romero**
(September, 2022)
Design and Fabrication of Soft, Round, High Resolution Tactile Fingertip Sensors for Dexterous Robotic Manipulation
- Edvard Ronglan**
(See also S.M., Course II)
Bayesian Optimization and Cartesian-Grid Simulations for Artificial Reef Design
- Rohit Priyadarshi Sanatani**
(See also S.M.Arch.S., Course IV)
PLACEIFY: A Data-Driven Framework for Evaluation-by-Analogy in Early-Stage Urban Analysis and Design
- Christopher Basil Scarvelis**
(September, 2022)
Riemannian Metric Learning via Optimal Transport
- Nicholas Benjamin Schiefer**
(September, 2022)
Learned Interpolation for Better Streaming Quantiles with Worst Case Guarantees
- Upamanyu Sharma**
(September, 2022)
Modular Verification of Distributed Systems with Grove
- Shabnam Sheikhha**
Task Scheduling Techniques to Accelerate RTL Simulation
- Maohao Shen**
Trustworthy Learning and Uncertainty Quantification under Constraints
- Zhiye Song**
Algorithm and Hardware Co-optimization for Image Segmentation in Wearable Ultrasound Devices: Continuous Bladder Monitoring
- Sarah O. Spector**
(February, 2023)
Nonplanar Nanostructures with Planar Fabrication via Interface Engineering
- Joseph Suarez**
The Neural MMO Platform for Massively Multiagent Research
- Haoyuan Sun**
A Unified Approach to Controlling Implicit Regularization Using Mirror Descent
- Ariel Szekely**
(September, 2022)
oOS: Elastic Realms for Multi-Tenant Cloud Computing
- Benny Jun-Hong Tang**
(See also S.M., Engineering and Management)
VisText: A Benchmark for Semantically Rich Chart Captioning
- Max Alan Tanski**
(See also M.B.A., Course XV)
Making More Miles: Automating Load Selection, Truck Dispatch, and Backhaul Activation in Outbound Logistics Operations
- Han Tu**
(See also S.M.Arch.S., Course IV)
Analyzing Affective Responses to Virtual Spaces Using Physiological Sensors and Verbal Descriptions
- Onyinyechi Chiemela Ukaire**
(See also M.B.A., Course XV)
Predicting and Preventing Unsafe Events at an Enterprise
- Shelby Madison Unger**
(See also M.B.A., Course XV)
Analysis of Respiratory Time Series Data for Breathing Comfort Detection Prior to Sleep Onset During APAP Therapy
- Kai Yee Wan**
(See also S.M., Engineering and Management)
Simultaneous Localization and Calibration in a Wireless Network of Uncooperative Receivers
- Hanfeng Wang**
(September, 2022)
Dense Spin Arrays with Low Cross-Talk Operations for Quantum Network Applications
- Jinchen Wang**
(September, 2022)
THz Cryo-CMOS Link for Quantum Computing
- Rui Wang**
(February, 2023)
(See also S.M.Arch.S., Course IV)
City Image: A Dynamic Perspective Using Machine Learning and Natural Language Processing
- Tongzhou Wang**
(September, 2022)
Geometric Properties of Learned Representations
- Weiyang Wang**
(September, 2022)
TopoOpt: Optimizing the Network Topology for Distributed DNN Training
- Wentao Weng**
(February, 2023)
Efficient Decentralized Multi-Agent Learning in Asymmetric Queuing Systems
- Yilun Xu**
(September, 2022)
Controlling Directions Orthogonal to a Classifier
- Lujie Yang**
(February, 2023)
Discrete Approximate Information States in Partially Observable Environments
- Alec Yen**
(September, 2022)
Interference Purcell Filter for Fast, Modular, and Hardware-Efficient Quantum Measurement

Jason Yim
(February, 2023)
Generative Models of Protein Structure
and Sequence

Abbas Zeitoun
Making Language Models Use Prompts

Anna Zeng
Causal Graph Summarization

Jiao Zhang
(February, 2023)
(See also S.M., Technology and Policy
Program)
Improving Predictability of Wind Power
Generation

Jiaqi Zhang
(September, 2022)
Active Learning for Optimal Intervention
Design in Causal Models

Rachel Y. Zhang
(February, 2023)
Interactive Error Correcting Codes

Ziyuan Zhu
(September, 2022)
(See also S.M.Arch.S., Course IV)
Unwanted Project: Speculative Design for
Circularity

**Master of Science in Chemical
Engineering**
Course X
*Department of Chemical
Engineering*

Alexander Leo Casati Judge
(See also M.B.A., Course XV)
Enhancing Workflows in Biologics Drug
Substance Process Development Through
Automation

Clara Troyano-Valls
(February, 2023)
Advances in Single Component
Adhesive Enable the Production of
High-Performance Rubber Composites
Containing 40 wt% Rubber Waste and 95
wt% Rubber Waste When Supplemented
with Devulcanization

**Master of Science in Chemical
Engineering Practice**
Course X-A
*Department of Chemical
Engineering*

Mohammad Ayman Alkhadra
(September, 2022)
(See also Ph.D., Course X)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Barathkumar Baskaran
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Keith Ming Hong Cheah
(See also Ph.D., Course X)
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Engineering Practice in Lieu of Thesis

Bhavish Dinakar
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Engineering Practice in Lieu of Thesis

Nathan Timothy Ewell
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Engineering Practice in Lieu of Thesis

Chinmay Shripad Gangal
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Aristotle Franklin Grosz
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Engineering Practice in Lieu of Thesis

Krishna Pavan Inguva
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Engineering Practice in Lieu of Thesis

Sydney Rose Johnson
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Justin Andrew Kaskow
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Engineering Practice in Lieu of Thesis

**Aya Ahmedelmukhtar Mohamedosman
Khalifa**
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Joel Chi Yui Lau
(February, 2023)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Alexander H. Liu
(February, 2023)
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Engineering Practice in Lieu of Thesis

Ke-Chi Liu
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Xinquan Liu
(September, 2022)
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Ziwen Martin Ma
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Nicholas John Matteucci, Jr.
Attended School of Chemical
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Simar Kaur Mattewal
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Kaylee Lynn McCormack
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Chase Novak
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Anthony Walter Picchi
(February, 2023)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Thomas Koizumi Porter
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Farah Omar Ramadan
(September, 2022)
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Engineering Practice in Lieu of Thesis

Theodore M. Riotto
(February, 2023)
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Engineering Practice in Lieu of Thesis

Katelyn Marie Ripley
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Yash Samantaray
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Gabriel Sánchez Velázquez
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Abigail Rae Taussig
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Dousabel May Yi Tay
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Gerrit P. Van Ommering
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Caleb Daniel Watson
(February, 2023)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Trent Alexander Weiss
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Joshua Woodrow Wilkerson
(September, 2022)
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Zhewei Xie
Attended School of Chemical
Engineering Practice in Lieu of Thesis

Jing Ying Yeo
Attended School of Chemical
Engineering Practice in Lieu of Thesis

**Master of Science in
Aeronautics and Astronautics**
Course XVI
*Department of Aeronautics and
Astronautics*

Marcus Salvatore Abate
Performance Enhancements to
Visual-Inertial SLAM for Robots and
Autonomous Vehicles

James M. Abel
(February, 2023)
Comparative Assessment of the Societal
Cost of PtL and LH2 as Aviation Fuels

Kristen Joyce Ammons
(September, 2022)
Concept of Operations and Failure
Analysis for a Complex Deployable
CubeSat Antenna Payload

Jacqueline E. Ankenbauer
Global Localization and Guided
Relocalization in Unstructured
Environments Using Semantic Objects

John Thomas Clarke Barstow
(See also M.B.A., Course XV)
Application of Systems-Theoretic
Process Analysis to Work Movement in
Production Systems

Michael James Brown, Jr.
Mechanical Shock Analysis and Testing of
an Air-Dropped Antarctic Ice Penetrator

Matthew Charles Campbell
(February, 2023)
Forced Response Measurements of
Cavitation Dynamics in a Rocket Engine
Turbopump Inducer

Zhibo Chen
(September, 2022)
A Tail-Integrated Boundary-Layer
Ingesting Propulsion System for Turbo-
Electric Aircraft

Juliana L. Chew
Evaluating the Use of TROPICS
Pathfinder Observations for Lunar
Calibration

Nicolette LeAnn Clark
Reduced-Order Atmospheric Density
Modeling for LEO Satellite Orbital
Reentry Prediction

Sarah Elaine Densky
Analysis of Double Cropping to Expand
Sustainable Aviation Fuel Production in
the United States

Raphael Jean Dijoud
Ignition by Nanosecond Repetitively
Pulsed Discharges

Geoffrey Ding
Privacy Risk Mitigation Strategies for
Drone Package Delivery

James Patrick Dingley
Satellite Market Modelling with Agent-
Based Computational Economics

Jad A. Elmourad
(February, 2023)
Evaluating Fuel-Climate Tradeoffs in
Contrail Avoidance

Daniel Erkel
(February, 2023)
(See also S.M., Technology and Policy
Program)
The Success of Emerging Space Actors:
Effective Strategies in the NewSpace Era

Alexandra Mae Forsey-Smerck
(September, 2022)
Situational Cueing for Trust Calibration
in Automated Systems

Andres Garcia Jimenez
Quantitative Assessment of the Frictional
Ignition Resistance of Metals in High-
Pressure Oxygen

Julia C. Gaubatz
Design and Development of Stability and
Control Systems for Small, Deployable
Aircraft

Sideena Kateri Celestine Grace
Investigating the Impact of
Communication Delay on Mission
Control as an Effective Team Member
with the Crew

Carla Grobler
CO₂ and Public Health Impacts of US
Residential Heating Electrification

China Hagström
(February, 2023)
Early Plume Development and NO_x
Chemistry in LO_x/H₂ and LO_x/CH₄
Liquid Rocket Engines

Jacob Frederick Harburg

(February, 2023)
Improvements to LEO Tracking on The Portable Telescope for Lasercom

Shravan Hariharan

Laboratory Characterization of Mars In-Situ Resource Utilization (ISRU) Using the Mars Oxygen ISRU Experiment (MOXIE) FlatSat Testbed

Hanna-Lee Nava Harjono

Development of a Throttleable Attitude Control Scheme for Electro Spray Propulsion Systems

Kyle James Horn

(February, 2023)
Adaptive Oxygen Production of the Mars Oxygen ISRU Experiment (MOXIE) through Feedback Control of Pressure Sensor 4

Asha Kailin Jain

On the Atmospheric Saliency of Space Debris Reentries: Estimating the Distribution, Lifetime and Radiative Forcing of Reentry-Ablated Alumina

Paul Mitchell Johnson

(See also M.B.A., Course XV)
Parametric Study of Environmental Testing in Satellite Manufacturing

Alexander P. Koenig

A Systems Framework for Multi-Messenger Astronomy

Scarlett E. Koller

(See also M.B.A., Course XV)
Applying Satellite Broadband Connectivity with Edge Computing to New Industry Verticals

Kota Kondo

Multiagent Trajectory Planning Under Communication Delay

Ngoc Thuy Minh La

(February, 2023)
Human-Aware AI Assistant

Dongjoon Lee

Multi-fidelity Design with Incremental Optimization Guided Decisions

Kanghyun Lee

Influence of Turbofan Engine Design on Aircraft Environmental Impact

Shu-Yu Lin

Development and Validation of Wearable Sensor System for Quantifying Proprioceptive Adaptation

Peter Yu-Farn Liu

(See also S.M., Technology and Policy Program)
System Dynamics Modeling and Analysis of Continuous Production Agility: Policies and Enablers for Resilient Satellite Constellations

Dominic R. Maggio

Visual Location for Spacecraft Entry Decent and Landing

Aaron R. Makikalli

Aerodynamic and Thermal Considerations for an Antarctic Ice Penetrator

Eduardo Maristany

(See also M.B.A., Course XV)
Economic Analysis of 3D-Printed Ceramic Cores for Gas Turbine Investment Castings

Spencer Thomas McDonald

(See also S.M., Transportation)
Optimizing Urban Air Mobility Operations in a Corridor Network

Shervin Mehryar

State Estimation for Future Power Networks

Alexandra R. Meredith

(February, 2023)
Applying Rotation-Equivariant Deep Learning to Cloud and Road Segmentation in Satellite and Aerial Imagery

Alex S. Miller

Impact Analysis and Design Development for Air-Dropped Antarctic Seismo-Geodetic Ice Penetrator

Youngjae Min

One-Pass Learning via Bridging Orthogonal Gradient Descent and Recursive Least-Squares

Jeong Suk Oh

Sensitivities of Atmospheric Composition to High-Altitude Vehicles Emissions

Codrin P. Oneci

Distributed Estimation Algorithms for Autonomous Systems

Kaleb Daniel Overby

Development of Electrodes for an Electrostatically Actuated Mesh Reflector

Jennifer Lindsey Pandolf

(See also M.B.A., Course XV)
Investigation of Model-Based Systems Engineering Integration Challenges and Improvements

Celina Pasiecznik

Evolutionary Debris Modeling of LEO and Cis-Lunar Space

Julia Pasiecznik

Koopman Operator Theory Applied to Lambert's Problem with a Spectral Behavior Analysis

Nicholas Joseph Perovich

(September, 2022)
Design Studies for Future EAD-Propelled Aircraft

Victor L. Qin

Market Mechanisms for Service Provider Operations in Advanced Air Mobility

Zengyi Qin

(September, 2022)
Learning Large-Scale Multi-Agent Control with Safety Certificates

Chirag Raghuvveer Rao

(September, 2022)
Age of Information for Broadcast and Collection in Spatially Distributed Wireless Networks

Nicholas Aaron Rober

Towards Tight and Scalable Backward Reachability Analysis for Neural Feedback Loops

Louis Anh Tài Robion

Improving the Temporal Consistency of Satellite-Based Contrail Detections Using Ensemble Kalman Filtering

Diego Andre Salgado Bobadilla

Comparative Energy Efficiency Analysis for Hydrogen and Jet Fuel in Next-Generation Long-Haul Aircraft

Saba Zareen Shaik
Single-Polarity Ion Electropray
Propulsion

Haley Elizabeth Solera
Python-Based Tools for Characterizing
Geosynchronous Satellite Behavior
and Evaluating Maneuver Prediction
Techniques

Thomas Ryan Stuart
(See also M.B.A., Course XV)
Defining Core Manufacturing
Capabilities in an Aerospace Company

Dun Yuan Tan
Implications of Intermittency of
Renewable Energy on Power-to-Liquid
SAF production

Marek Travnik
(September, 2022)
A Data-Driven Approach for Predicting
and Understanding Braking Conditions
of Landing Aircraft

Tesla Del Mare Wells
(February, 2023)
Using Qualitative Preferences to Guide
Schedule Optimization

Andrew Scott White
(September, 2022)
Trade-Space Analysis of Liquid
Hydrogen Propulsion Systems for
Electrified Aircraft

Joshua Kevin White
(September, 2022)
Analysis of Continuous Tensor-Train
Methods for Optimal Control Problems
with the Ornstein-Uhlenbeck Operator

Emily Jane Williams
Assessment of Wall-Modeled Large-Eddy
Simulation for High-Speed Flows and
Novel Modeling Strategies

Kathleen Shiyin Xu
Differential Drag-Based Maneuvering
for the CubeSat Laser Infrared Crosslink
(CLICK) Mission

**Master of Engineering in
Biomedical Engineering**
Course XX-P

*Department of Biological
Engineering*

Karena Jade Groff
Generation of Focal *Depdc5* Knockout
Mouse Model and Implications for Focal
Epilepsy

Atharv V. Oak
(See also S.B., Course XVIII)
ILF3 Links mRNA Decay in the
Cytoplasm to Transcriptional Adaptation

**Master of Science in Biological
Engineering**
Course XX

*Department of Biological
Engineering*

Malek Kabani
(February, 2023)
Investigating the Neurological Effects of
SARS-CoV-2 Infection on the Brain

**Master of Science in Nuclear
Science and Engineering**
Course XXII

*Department of Nuclear Science and
Engineering*

Kristina
Neutronic Analysis of Horizontal-
Compact High Temperature Gas-Cooled
Reactor

Santiago Andrade Aparicio
(See also M.B.A., Course XV)
Technical and Commercial Feasibility
Assessment of Nuclear Microreactors as
a Clean Energy Source for Data Centers
and Mining Sites

Loukas L. Carayannopoulos
(February, 2023)
(See also S.B., Course XXII-ENG)
Simulation of Irradiation of a Molten Salt
Loop at the MIT Reactor

Lorne Russell Cohen
Modelling of Graphite Elements and Low
Enriched Fuel Assemblies for a High
Temperature Gas-Cooled Reactor

Maximilien Fadi Debbas
(September, 2022)
An Investigation into Topological
Crystals and Flat Band Systems

Zoe Lilah Fisher
(See also S.B., Course XXII-ENG)
Annealing Cryogenically Irradiated
High Temperature Superconductors with
Current Pulses

Edward James Garcia
(February, 2023)
Scaling Siting Criteria and Identifying
Alternative Licensing Pathways for
Micro-Reactors within the Existing
Regulatory Framework

Lindsey Anne Kennington
(See also M.B.A., Course XV)
A Techno-Economic Analysis of
Hydrogen, Electric, and Diesel
Fuel in Medium - and Heavy-Duty
Transportation Applications

Chumani Mokoena
An Investigation of Major Component
Disposal Costs for Advanced Nuclear
Reactors

Michael Kenneth Moore
Design Options to Address Submersion
Criticality for Low-Enriched Uranium
Nuclear Thermal Propulsion Rocket

Isabel Naranjo De Candido
(February, 2023)
Staff Minimization Strategy for Micro-
Reactors

Gyutae Park
Increasing Cermet Fuel Thermal Margin
with Thoria for Nuclear Thermal
Propulsion

Daniel Robert Reinfurt
Uranium Enrichment Signatures of
Fluorinated Epoxy

Kevin Tang
(February, 2023)
Evaluation of Novel Laser-Skived
Microbridges for Improved
Characterization of REBCO
Superconductor

Julia of Witham
Mission and System Design for In-Situ
Resource Utilization in the Outer Solar
System Using Nuclear Propulsion
Technologies

Yinjie Zhao
(September, 2022)
LEU-HEU Mixed Core conversion
analysis and Coolant System Upgrade for
the MIT Research Reactor

**Master of Applied Science in
Supply Chain Management**
*Program in Supply Chain
Management*

Rohan Alexander

Osama Alhasan

Moutaz Faisal Ali

Geoffrey J. Allen

Pablo Andres Barros Gomez

Amina Benhassine

Elizabeth M. Bruttomesso

Francisco Andres Calero Mantilla

Tulio Rene Castillo Ovalle

Kefan Chen

Yumeng Chen

Yu-Ta Chen

Yeonjoon Choe

Luis Rodrigo Dávila Novoa

Morgan Jessica DeHaan

Nauryzkhan Dildabekov

Donald Inyene Ekanem

Richard Augustus Elmquist III

**Mostafa Khedr Mohamed Khedr Elz-
anfaly**

Andrea Esposito

Emma Eustis

Lanyan Feng

Julia Fernandez del Valle y Rivera

Kristen Michelle Foster

Pu Gao

Harry Pomeroy Hawkes III

Brian James Hinkamp

Szuya Huang

Shoichi Ishida

Marwan Ismael

Hassaan Jaffar

Rohit Kapila

Yujia Ke

Bishwajit Kumar

Yien Lai

Madeleine M Y Lee

Lydia Lim

Kirill Lobanov

Romain Lucas

Joseph Anthony Lynch

Nayantara Mehta

Haoxin Mei

Melania Nina Meleney

Gianmarco Alexander Merino Sandoval

Andrew Mohn

Sean Oakley Moran

Anumanth Sarma Murugesan

Marcela Navarro Lara

Sneha Neversu

Kyle Patrick O'Brien

Jorge Enrique Oliver Verastegui

Shruti Pant

Adriele Pradi

Ritesh Rai

Kaitlyn Danielle Lee Rakestraw

Matthias Schumm

Boping Shan

Kamran Iqbal Siddiqui

Charles Edward Snow

Hannah Justine Sonnenberg

Furqan Khalil Syed

Gabriel Szuma

Mauricio Arturo Taborga Claure

Mehdi Tagorti

Yusuke Tanaka

Maria A. Tartaglia

Prateek Tewari

Nicolò Tosi

Samara Vilar da Costa

Yin Wang

Yusong Wei

Shobhit Kumar Yadav

Xinjian Zheng

**Master of Science in
Engineering and Management**
*Program in System Design and
Management*

Zenia Adiwijaya

Revamping Manufacturing Systems:
Utilization of Data Driven Models,
Interpretable Machine Learning, and
Data-Product Stakeholder Flow Analysis

Javier Agüera Reneses

(February, 2023)
SOCIALIC: A Novel Role-Playing
Simulation Exercise for Ethics Teaching in
Higher Education Institutions

Grace S. Ahn

Bespoke Design Meets Systems at Scale:
A Design Study with Judy Heumann

Abdulelah Saad Al Mesfer

Forecast-Driven Inventory Management
for the Fast-Moving Consumer Goods
Industry

Hassaam Ali

(February, 2023)
MIT-Middle East Multi-Party
Collaboration

Kim Whatt Gary Ang

(September, 2022)
Using a Cyber Incident Report to Detect
and Mitigate Cyber Vulnerabilities in
Industrial Control Systems

Jerome Arul

Method to Design and Fabricate an
Octahedral-Tetrahedral Spaceframe from
Repurposed Scaffolding

Anthony R. Atto

(September, 2022)
The Future of Technology Bargaining in
the Information Age

Matthew Brian Barnes

(September, 2022)
Energy Transition Impacts for Workers:
A Comparative Analysis of Differences
in Energy Transition Policies in Germany
and Appalachia and their Impact on Coal
Employment Outcomes

Saloni Bedi

Developing and Testing a Portable Device
for Tracking Small Deviations in the
Hydration Levels of a Human Body

Charles Keeler Brown

Conquering the Challenge of Reliability:
Text Mining to Map Trends in Reliability
Engineering Literature

Andrew Michael Canady

(February, 2023)
Safety in U.S. Navy Navigation Applying
STAMP Processes to Surface Ship
Collisions

Erh Chieh Chang

Supplier Development Framework in
Supply Chain Cybersecurity Evaluation
of Small and Medium-Sized Enterprises

Doo Hyun Mark Chung

(September, 2022)
Techno-Economic Assessment of
Electrolytic Hydrogen Production under
Dynamic Operations

Sarah Bryson Coyle

(September, 2022)
Hydrogen Storage Potential of the Salina
Group, Appalachian and Michigan Basins

Alexander S. Crease

Climate Change Conversations with
Children: Making Sustainability
Meaningful, Tangible, and Actionable
(with N. Singhasaneh)

Anna Nadia Cybulsky

(February, 2023)
Techno-Economic Modeling and
Optimization of Hydrogen Supply Chain
for Aviation Demand

Aidana Daulbayeva

Behavioral Design for Emotional
Intelligence: Leveraging Affective
Computing in Medical Education for
Improved Care for Substance Use
Disorders

Robert Lee Day

Operational Analysis and Mission
Engineering: A Strategy and Framework
to Analyze any Industrial Ecosystem

Carmen Maria de la Sierra Cauley

Economics of Renewable Electricity:
Lessons for Potential Investors from the
California and Texas Electricity Markets

Joshua Michael DiPietro

(September, 2022)
Flexible in Engineering Design Approach
to Fleet Management

Jake Drutchas

(February, 2023)
Entrepreneurship By Design

Dipti Garg

(February, 2023)
Representation and Management of
Scope through Project Lifecycle

Kurt Drew Geiger, Jr.

(September, 2022)
Exploring Career Pathways within an
Organization Based on the Assessment of
Prior Experience

Sahas Gembali

Phygital Transformation: Adding
Physical Devices to Digital Products to
Improve the User Experience

Margaret Calliope Georgiadis

(See also M.B.A., Course XV)
Facilitating Multi-Perspective-Taking in
Adults: A Field Study

Mervine Anand Govada

A Systems Approach to Understanding
Challenges in Preserving User Privacy.
And How Federated Learning and
Differential Privacy Enables Enterprises
to Take a Consumer-Centric Approach
and Reduce Privacy Concerns.

Akshita Goyal

Integrated Systems and Human-Centered
Design Approach for Awareness, Early
Diagnosis and Treatment Adherence of
ADHD and ADD for Children of India

Neil Kelsey Hallock

An Experimental Design to Assess Team
Performance Through Shared Mental
Models

Bruce Allen Hecht

(February, 2023)
Engagement Mechanisms in Transit-Oriented Development Using Model-Based Workshops of Sustainable Community Development

Andre Jermaine Hicks

(September, 2022)
System Analysis of a Numerical Well Design Optimization Process

Seoyeon Tara Hong

(September, 2022)
Decarbonizing the Global Shipping Industry: Evaluating Pathways for Alternative Fuels

Geet Kalra

(February, 2023)
(See also S.M., Course VI)
Machine Learning for Detection of Cyberattacks on Industrial Control Systems

Toru Kawasaki

Analyzing the Future Architecture of Steelmaking Enterprise in Japan

Eunah Kim

Assistive Personal Robots for Older Adults: Bridging the Divide Between Robotic Technology Development and End-Users in Practical Applications

James Jaehak Kim

Using a System-Theoretic Approach for Cyber Mission Assurance of the Royal Canadian Air Force Over the Horizon Radar System

Thitisak Kittipeerapat

(September, 2022)
A Holistic View of Factors Impacting the Adoption of Lessons Learned Management Systems

Jarod Roan Kramer

(See also Naval E., Course II)
Investigating the Use of Inductive Transfer Learning and RNN to Quantify Extreme Event Statistics of Ship Motions

Heng Huan Allan Law

(February, 2023)
How Can Companies Adopt DT (Digital Twin) Technologies to Minimize Physical Prototyping by Maximizing Virtual Development and Testing within the Digital Twin Models?

Chiwon Lee

(February, 2023)
Understanding Gen-Z College Student Needs Regarding Social Media Apps through a Case Study on Bondit, a Social Media App for College Students

Sheng-Hung Lee

(September, 2022)
(See also S.M., Course II)
Human-Centered System Design for an Aging Population: An Experimental Study of Footwear Design

Jason John Lehman

(September, 2022)
Driving Optimization Centered Upstream Petroleum Operations in the Denver-Julesburg Basin

Damien Gordon Lewke

Enhancing Cyber Resilience through Benchmarked Cyber Metrics

Shao Cong Lim

(September, 2022)
A Case for Pre-Trained Language Models in Systems Engineering

Sabrina Woro Anggraini Listyo

Product to Platform Strategy: Transitioning COVID-19 Citizen Tracing Product to Centralized Telemedicine Platform in Indonesia

Jason Paul Lowery

(February, 2023)
Mutually Assured Preservation: Bitcoin and the Future of National Strategic Defense

Eishi Majima

A Case Study of Project Management of COVID-19 Vaccination in Japan

Khaalid Persaud Juggan McMillan

(February, 2023)
Data Center Carbon Accounting, Enterprise Digital Presence, and Sustainable Computing Trends

Ryan Gerard Montvydas

Applying Systems Theory to Analyze Cyber Resiliency of Naval Engineering Systems

Adam Nahari

(February, 2023)
Harnessing External Data in Public and Private Market Investing

Kosuke Nakajima

Evaluation of Real-Time Bridge Monitoring and Repair Management System Using Digital Twin Framework

Masumi Nomura

Analysis and Comparison of the Creation of University Spin-off Startups in Deep Tech between the United States and Japan

Tatsuya Osugi

Systems Architecting the Future of Construction Enterprise for Intrapreneurship

Katherine Patricia Papageorge

(September, 2022)
A Systems Approach to Understanding Gender Inequity in Engineering

Jose Ignacio Parada

(February, 2023)
Cybersecurity in Machine Learning

Jason V. Paul

(September, 2022)
Strategic Management of R&D Capabilities with Agent Based Modeling

Alexander James Pinigis

Systemic Issues of Evaluating and Retaining Army Talent

Orson Samuel Porter

(February, 2023)
A Systemic View to Acquiring Innovation: How the US Air Force Invests in the Private Sector to Advance Innovation

Andrea Quiros Balma

Responsible Design: Design Methods for Anthropocentric Sustainable Futures

Benjamin Sterling Radelet

(September, 2022)
Quantifying Technology Management in the Energy Transition: Evidence from the Oil & Gas Industry

Jahanara Rahemtulla
Assessing the Impact of Vaccinations and AI-Based Screening on Cervical Cancer Prevention, in Low Resource Settings

Amir Ali Ravassipour
(September, 2022)
Strategic Funding of Emission Reducing Projects of a Crude Oil Refining Plant

Evelyn Ruff
Surrogate Neural Networks for Efficient Simulation-Based Trajectory Planning Optimization

William Kolbe Patrick Schwab
(September, 2022)
Carbon Capture Technology for Natural Gas Power Plants: Selection Techniques and Implementation Strategies for a Real-World Scenario

Shi Shu
(February, 2023)
The Impact of Mental Model in Older Adults Experience of Digital Games

Natha Singhasaneh
Climate Change Conversations with Children: Making Sustainability Meaningful, Tangible, and Actionable (with A. Crease)

Akshit Singla
(September, 2022)
Systems Thinking Applied to Digital Divide

Pedro Soto
(September, 2022)
Architecture Evaluation for Extended Reality Devices

Zachary Sternberg
Information Design Considerations for Effective Communication of Sustainability Metrics

Koji Takahashi
Developing Enterprise Architecture for Railway Machinery Engineers

Benny Jun-Hong Tang
(See also S.M., Course VI)
VisText: A Benchmark for Semantically Rich Chart Captioning

Arman Tanzharikov
(September, 2022)
Reduction of Greenhouse Gas Emissions Using the Sustainable Systems-Thinking Approach by Utilizing Cost-Effective Hydrogen Production with a Lower Environmental Footprint

Mark Joseph Tozzi
(September, 2022)
Strategic Value of Flexibility: Case of Execution and Technology Choice for Carbon Capture

Abhishek Uppal
Investigate and Analyze the Impact of Electronification in Fixed Income Bond Markets and Equity Stock Markets via ARIES Framework

Manasi Atul Vaidya
Data Privacy Communications in Smart Home Technology for Older Adults: Evaluation, User Attitudes and Concerns, and Design Implications

Ignacio Salvador Vazquez Rodarte
(September, 2022)
Instrumenting Sensemaking for Engineering Teamwork

Jordan S. Wachs
(February, 2023)
Development of a Cislunar Space Situational Awareness Architecture Using Real Options to Address Cost and Performance Uncertainties

Kai Yee Wan
(See also S.M., Course VI)
Simultaneous Localization and Calibration in a Wireless Network of Uncooperative Receivers

Eric James Young
(See also Naval E., Course II)
Rapidly Estimating Swarm Resource Needs Through Autonomous Simulation

Master of Science in Transportation

Paris Charitatos
Course XI
Splitting Rides in Transit Deserts: Ride-Splitting Dynamics in Chicago Before, During and After the Pandemic

Emma K. DeSoto
Course I
(September, 2022)
Evaluating the Impacts of Mobility-as-a-Service in Prototypical North American Cities via Agent-based Simulation

Xiaotong Guo
Course XI
Enhancing the Shared Mobility Market: Dissolving Market Segmentation and Understanding Market Friction

Yuzhu Huang
Course XI
Understanding Bus Operations Using High-Resolution Vehicle Location Data

Spencer Thomas McDonald
Course I
(See also S.M., Course XVI)
Optimizing Urban Air Mobility Operations in a Corridor Network

Daniel Michael O'Neil, Jr.
Course XI
Post-COVID Transit Fares for Riders and Recovery

Emma Pauline Swarney
Course XI
Measuring Place-Based Transit Service Equity in Chicago

Naval Engineer
Course II
Department of Mechanical Engineering

John Harris Cathcart IV
(See also S.M., Course II)
Integration and Implementation of Conceptual Design Tools for Naval Warships

Kelsey O'Brien Cathcart
(See also S.M., Course II)
Detrainment and Settling of Sediment in Turbidity Currents: A Study to Inform Deep Seabed Mining

Camilo Duque Londoño
(See also S.M., Course II)
A Hydrogel Adhesive Marine Sensing System: Design, Mechanism and Applications

Jarod Roan Kramer

(See also S.M., Engineering and Management)

Investigating the Use of Inductive Transfer Learning and RNN to Quantify Extreme Event Statistics of Ship Motions

Lucas Kistner Stone

(See also S.M., Course II)

Oscillating Energy Harvester for UUV Applications

Jillian Marie Uzoma

(See also S.M., Course II)

Predicting Interactions Between Energy Saving Devices on Surface Ships

Alexander Joseph Wunderlich

(See also S.M., Course II)

Feasibility Study of a Linear Generator Wave Energy Converter With Adaptive Bistable Control

Eric James Young

(See also S.M., Engineering and Management)

Rapidly Estimating Swarm Resource Needs Through Autonomous Simulation

Electrical Engineer

Course VI

Department of Electrical

Engineering and Computer Science

Erik Karl Saathoff

(February, 2023)

Inrush Transient Generation and Line Impedance Estimation (S.M. thesis, February 2021)

**Master of Engineering in
Computer Science, Economics,
and Data Science**

Course VI-14

Dina A. Atia

Evaluating Bias in Machine Learning-Enabled Radiology Image Classification

Orrie B. Page

How More Equitable Assignment Mechanisms Can Increase School-level Segregation

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

Master of Science in Economics

Course XIV

Department of Economics

Indira Puri

(See also Ph.D., Course XIV)

Simplicity and Probability Weighting in
Choice Under Risk

Master of Applied Science in Data, Economics, and Development Policy

Course XIV

Department of Economics

Kumar Abhinav

(September, 2022)

Faris Abdulaziz AlWohaibi

(September, 2022)

Yann Bourgeois

(September, 2022)

Mohamed El Habib Chenguiti Ansari

(September, 2022)

Chun Man Chow

(September, 2022)

Amschel Nathaniel de Rothschild

(September, 2022)

Tomáš Dulka

(September, 2022)

Chuka Dean Ezeoguine

(September, 2022)

Tom Mansfield Harris

(September, 2022)

Massimiliano Dhikara Hasan

(September, 2022)

Rodolfo Ilizaliturri Lopez

(September, 2022)

Michael Adam Jarrell

(September, 2022)

Shahzor Khan

(September, 2022)

Angelo Kisil Marino

(September, 2022)

Laura Lahoz González

(September, 2022)

Nathan Lazarus

(September, 2022)

Cheng Wei Lee

(September, 2022)

Luis Ernesto Lopez de Rivera Munoz

(September, 2022)

Leonardo Enrico Marchioro Mendes

(September, 2022)

Farhad Panahov

(September, 2022)

Emily Ann Porter

(September, 2022)

Anjaly Simon Poruthoor

(September, 2022)

Eder Alfonso Redondo Santos

(September, 2022)

Cyrus Graham Reginald

(September, 2022)

Max Benjamin Resnick

(September, 2022)

Ilias Suvanov

(September, 2022)

Marc G Tan

(September, 2022)

Claudia Marcela Ulloa Zuluaga

(September, 2022)

Michael Ya Akov van Niekerk

(September, 2022)

Anna Vdovina

(September, 2022)

Linxi Wang

(September, 2022)

Master of Science in Political Science

Course XVII

Department of Political Science

Lauren David

(September, 2022)

Needles in a Haystack: Perceptions of
Deservingness on the Implementation
of Harm Reduction Programs in the
American Midwest

Milain David Fayulu

(September, 2022)

Asymmetric Network Ties to Elite
American Universities Create Differential
Access to Venture Capital in Africa

Julian Todd Rippy

(September, 2022)

A Mixed-Methods Approach to Force
Estimation in Military Operations Other
Than War

Master of Science in Science Writing

Course XXIW

*Program in Writing and
Humanistic Studies*

Leah Campbell

(September, 2022)

The Toxic Legacy of the Gold Rush

Iris Megan Crawford

(September, 2022)

A Solution in the Sea. Commercial
Kelp Farming was Recently Legalized
in New York State - Can it Help Solve
Environmental and Economic Woes?

James Ryan Dinneen

(September, 2022)

The Primary Prevention: What's Causing
the Rise in Type 1 Diabetes—And Can it
be Stopped?

Shelby Nicole Evergreen

(September, 2022)

Think 'Zebra'

Emma Grace Foehringer Merchant
(September, 2022)
'Burning Issues': Incarcerated Firefighting Programs in the U.S.

Maria Anjelika Parazo Rose
(September, 2022)
When the Waters Came

Grace Carolyn van Deelen
(September, 2022)
The Spirit in the Science: Wild Rice Conservation through Tribal-University Partnerships in Minnesota

Shafaq Zia
(September, 2022)
Scrambling for Care: Autism in Rural America

Master of Science in Linguistics
Course XXIV
Department of Linguistics and Philosophy

John Joseph Dennis
Mi'kmaq Motherese Language

Masa Mocnik
(September, 2022)
Existential Belief and Epistemic Modals

Master of Science in Comparative Media Studies
Program in Comparative Media Studies

Srushti Santosh Kamat
(September, 2022)
Virtual Production and Atmospheres of Change

Ambar Reyes
(September, 2022)
Los Delivros: Labor, Platforms, and Transnational Flows of Information in Latin American Gig Workers

Annis Rachel Sands
(February, 2023)
Eliminating the Thorn in the United States' Side: Media Propaganda and the Grenada Experiment

Master of Science in Science, Technology, and Society
Course STS
Program in Science, Technology, and Society

Steven Gonzalez
(September, 2022)
Ethnography as Craft: Rendering the 'Emic' Space of a Server Farm Using a 3-D Printer

Rustam Khan
Apartheid in Schaarbeek: Belgian Migrant Labor and Human Rights in Europe's Carbon Transition, 1945-1973

Yui Leh Timothy Loh
(September, 2022)
Language in Medical Worlds: Hearing Technology for Deaf Jordanian Children

Gabrielle Lydia Marie Robbins
(September, 2022)
X Disease | Disease X: Medical Mystery-Solving and Epidemiological Change

Chayanon Ruamcharoen
(September, 2022)
Tropicalizing the Portable Radio

Caroline Celeste White-Nockleby
(February, 2023)
"A Resource in and of Itself": Grid-Scale Batteries and the Politics of Storage

Di Wu
(September, 2022)
Assisting Technology: Disability Expertise and Labor in Artificial Intelligence (AI) Data Work in China

SLOAN SCHOOL OF MANAGEMENT

Master of Business

Administration

Course XV-A (Sloan Fellows)
Sloan School of Management

Deepti	Omar Hans Figueroa	Ya Yui Sandra Lam
Mahelaqua	Jose Oswaldo Gonzalez Moreno	Luís da Cunha Lamb
Nahoko Abe	Taira Goto	Krispian Caspar Lawrence
Taiwo Oluwamayowa Ajetunmobi	Kamila Theresa Guerra	Chenise Roddey LeDoux
Keisuke Akiyoshi	Gerardo Manuel Guerrero Quichiz	Hyon Lee
Keith Edwin Anderson, Jr.	Seema Gupta	Kung-Yun Lin
Raafet Amine Azzouz	Mikkel Gabriel Manahan Gutierrez	Li Lin
Aizhan Balabatyrova	Soungah Serephina Ha	Cameron William Lothridge
Guilherme Nunes Martin Bianco	Kevin Christopher Hansom	Gianfranco Lucchesi
Amruta Madhav Borwankar	Kazuto Christopher Higuchi	Ryan Charles Lynch
Andy Aristides Canales	Candice Marie Hinds	Dwip Ratan Mahajan
Bindu Priya Chanagala	Laura Elaine Holberger	Mohammad Suleman Jehangir Malik
Daniel Charles	Ben Benjamin Ifrac	Hila Marcus
Joel Chastain	Yoshihide Iijima	Morgan Marie McCray
Muhammad Ehsan Che Munaaim	Karen Kumakura Inomata	Masanori Misu
Pengfei Chen	Aditi Jha	Michael Geoffrey Morlino, Sr.
Karen da Silva Mendonca Correa	Ki Youn Jung	Mahua Mukherjee
Kirsten Dotson	Ifeoluwakiitan Kalejaiye	Ryota Nakamura
Rod Ebrahimi	Jihoon Kim	Wu Wei Ngau
Osayuki Daniel Eguasa	Thomas Kyumwa Kisimbi	Kentaro Ode
Amir Elkabir	Li Min Janicia Koh	Kentaro Ogawa
Kristen Sarah Ellefson	Yuka Kojima	Yuri Ogiso
	Koichiro Cory Kondo The Coordination Imperative: A Comprehensive Approach to Align Customer Demand and Inventory Management for Superior Customer Experience in Retail (with A. Vicente)	Priscilla Ong
		Oghenekevwe Serena Ovbije
		Dimitrios Papalexopoulos

Francisco José Pérez-Ojeda Rodríguez	Ye Tian	James Joseph Akin
Luke R. Petersen	Emre Tok	Akinbamidele Olamide Akintola
Chieu L. Pham	Kenta Uchida	Joshua Bradley Albrechtsen
Kishan Jitendra Popat	Oghenetega Timothy Uvieghara	Dheera Ananthakrishnan
Andrianiaina Rajaobelina	Brian Dennis Lee Via	Michael Anthony, Jr
Nitin Rakheja	Fei Wang	Octavio Arreaga Chavez
Amiya Ranjan	Vicky Xiaoqing Wang	Faraj Atassi
Rafael Rodrigues Alves da Rocha	Eshrat Waris	Robert Scott Bair
Ryutaro Sakaguchi	Haojie Xu	Taylor Anne Becker
Eric Andrés Salazar Molinares	Takeshi Yamaguchi	Hamilton Barlow Bennett
Charles Michael Salmon	Chau-Shyang Yang	Stuti Bhargava
Gabriel San Román Pacheco	Shinichiro Yasui	Scott Alan Bishop
Dilnoza Satarova	Tan Yi Ling	David Arthur Blum
Zeeshan Haider Shaikh	Krishna Lynne Zagura	Alexia Bowers Borden
Lara Monteiro da Silva	<u>Master of Science in</u>	Hanane Boutelitene
Inder Preet Singh	<u>Management</u>	Radzi Buckman
Suhel Yasin Soudagar	Course XV-A (Sloan Fellows) <i>Sloan School of Management</i>	Benjamin Emile Leduc Butterworth
Solen Soya	Viqar A. Pervaaz Authenticity in the Workplace, Is it Possible?	Yuri Cataldo
Shiny Sulaiman		Holly Marie Cirignano
Li Sun	<u>Master of Business</u>	Duygu Oktem Clark
Zhenhua Sun	<u>Administration</u>	John Patrick Tan Co
Kazuaki Takeda	Course XV-E (Executive) <i>Sloan School of Management</i>	Silvia Constain
Ayako Tanaka	Hatem Abouelenein	Eric Alden Cooper
Yuichi Tanaka	Arun Kumar Adat	Christina Crowley
Shantur Suresh Tapar	Mudassar Ahmed	Joshua David Di Frances
Lindsay Gail Temes	Rehan Ahmed	Michelle Rose Diab
	Yoon Sang Ahn	

Jonathan Dickerson	Karthik Kirubakaran	Ryan John O'Kane
Piers Ian Dormeyer	Landon Mark Langford	Christine Ophelia Palermo
Kimon Georgios Doukoumetzidis Hadjadj	Luqman Oloruntoyin Lawal	Lina Parra Cartagena
Hitesh Dumir	Michael James Leonard	Mona Patel
Ahmed Elsherbiny	Robin Williams Lindsay	Zain Patrawala
Yusuf Erkul	Gang Vincent Liu	Jay Pereira
Steven Michael Estvold	Song Liu	Katherine Joanne Perkinson
Konstantinos Apostolos Fetfatsidis	Thiago Kiill Lofiego	Shankar Kasinadhuni Prasad
Steven Matthew Flanders	Daniella Lynn Logan	Wen Qiu
Elizabeth York Flanigan	Ryan Christopher Lorraine	Justin K. Quinn
Yung Fung	Gerald William Mackaman	Chandra Sekharm Ragyari
Edward Leonard Ganzinotti III	Cam Arthur Macomber	Rajmohan Rajagopalan
Koushik Gattu	Satoshi Maeda	Sanjay Rajagopalan
Michael Walter Gebhardt	Sandra Desrene Maher	Jeevan Babu Ramesh Gejjalagere
Philip J. Gerity	Neil Everett Martin	Atul Narsinh Rathod
Brian Edward Grottkau	Pablo Martinez Gonzalez	Rune B.N. Rechenbach Taking System Dynamics from Research to Business
Tanya Hingorani	Kristina Masson	Philip Rigueur
Robert E. Jackson III	Marvi Ann Matos Rodriguez	Cedomila Ristic-Lehmann
Kirra Lynnette Jarratt	Mark Christopher McDonald	Norihiko Sakura
Oluwaseun Johnson Akeju	Dorota McKay	Viladeth Tim Sanouvong
Andrew Joseph Jonas	Kaele Anne McMahan-Varrelman	Brandy Lynn Schenck
Frank John Jonas, Jr.	Joseph Woodbury Tuttle McQuaid II	Diego Silva
Rahul Juneja	Luís Henrique Moreira	Rouse Corbin Slape
Nancy Copeland Kelley	Hamed Moshrefi	Edward Robert Smith
Bharti Khurana	Belinda Nilsson-Rodrigues	Alejandro Somuano
Yasmine Srouji King	Peter Alexander Noseworthy	Aditi Soni

Alexander Carlyn Soria	Raghad AlAttas	Nayeli Guadalupe Arellano Martinez (See also S.M., Course I) Visual Sort Marker Digitization in Sort Center Operations
Arun Srinivasan	Melissa N. Alleyne	
Edwin R. Suarez	Fernanda Almanza Gutierrez	Adegboyega Olayode Asanpaola
Shuchi Kapoor Sud	Njood Fahad Almehbash	Felipe Emilio Asfura Manzur
Xiaoxun Sun	Iago Almeida Neves	John Franklin Averill, Jr.
Michael Barrett Swartz	Bader Fahad Almubarak	Daniel Mengistu Ayane (See also S.M., Course VI) Inference of the Novel Coronavirus 2019 in Patients Fitted with Boston Scientific Medical Hardware
Venkata Lakshminarayana Tirupati	Mona Mohammed Alnoaimi	
Meredith Giglia van der Velden	Salman Alshaykh	
Renata Vieira Machado P Medeiros	Fahad Abdulaziz F. AlThenayyan	Diana Esmat Shohdy Ayoub
Kylie Jo Wagner	Ana Teresa Alvarez Hernandez	Zeynep Ece Aytug
Anne F. Wang	Matheus Alves Fonseca	Khadija Ba
Derek William Warner	Sumayah Abdullah Alzamil	Neelesh Bagga
Michael William Wiater	Roshni Amin	Adam Harrison Barber (See also S.M., Course II) Modeling Passenger Electric Vehicle Charging Demand with Machine Learning Using Telematics Data and Temperature
Julia Miller Wilson	Caroline Church Andersson	
Mohammad Mustafa Zakarni	Santiago Andrade Aparicio (See also S.M., Course XXII) Technical and Commercial Feasibility Assessment of Nuclear Microreactors as a Clean Energy Source for Data Centers and Mining Sites	John Thomas Clarke Barstow (See also S.M., Course XVI) Application of Systems-Theoretic Process Analysis to Work Movement in Production Systems
Xin Qi Zhang		
Steven Lloyd Zweibel		
<u>Master of Business Administration</u> Course XV <i>Sloan School of Management</i>	Kathryn Elizabeth Angevine (See also S.M., Operations Research) Multi-Modal Transit Time Prediction for E-Commerce Fulfillment Optimization and Carbon Emissions Reduction	Kate Elana Bartick
Zoe Abbott Boyd	Casilda Angulo Obieta	Abdulaziz Ben Baz
Tommy Aditya	Aditya Kumar Anguria	Jan Berczely Prada
Nikita Agarwal	Sean Patrick Antonuccio	Rattan Priya Bhasin
Sabrina Ahmed Iqbal	Ogechukwu Venessa Anyene	Swati Anand Bhat
Zoya Sadruddin Ajani	Bibi Fatima Arabzada	Ragini Bhattacharya
Nicole Adole Stanfield Akwei	Oswaldo Sebastián Araya Varas	Andres G. Bisoño Leon
Fawaz Bin Sultan Al Saud		Eduardo Bohrer (February, 2023)

Atikhun Boonchian	German Andrés Castaño Mancera	Fayner Costa
Phiphat Boonperm (February, 2023)	Caterina Leuzzi Castellano	Bryn E. Coughlan
Glenn Michael Borok	Maria del Coro Celigueta Azurmendi	Evan Bradley Crane
Juan Pablo Borrero Cordova	Sarah Melissa Centanni	Bruce Robert Crawford
Mercer Renée Borris (See also S.M., Course VI) AI in the Cath Lab: Implications of Clinical AI-Enabled Assistance for Intravascular Ultrasound Procedures	Iheb Sadok Chalouat	Brooke Montgomery Crowe
Peris Nyaboe Bosire	Saejal Chatter	Yuke Cui
Stephanie Irion Boulger	Natalie Alyssa Chehrazi (See also S.M., Course II) Driving the Future of Long-Haul Trucking: Realizing the Potential of Battery Electric Vehicles through an Analysis of Financial and Environmental Impacts	Wei Dai
Eliza Susanne Bragg	Jane Chen	Carlo Dal Pizzol
Renan Bragion Bicudo	Joyce Jy Chen	Pannatorn Daochai
Nahom Haile Brhane	Tzu-Chiao Chen	Rachel Erica Davidson
Emily R. Bridges	Yu Chen	Connor Charles Davock
O'Shae Malik Bridges	Qinyi Chew	Tyler Clinton de Gorter
Samuel Nathan Broner	Luka Chomich	Joao Paulo de Moraes Tranquez
Francisco Jose Bruna Lagos	Victor Hing Shing Choy	Amelia Rose De Paola
Nicolás Buero Viana	Chia-Han Chung	Oskar Theodor de Smet
Gregory Steven Campo	Jinryang Chung	Siddharth Ketan Dedhia
Diego Carballo Hevia	Alice Cima	Marie Gabrielle Dee
Christopher Taylor Carr (February, 2023) (See also S.M., Real Estate Development)	Matthew Jonathan Cohen	Maya Cristina Delaney
Courtney Tighe Carrabino	Elias Cohen Mizrahi	Akshay Rangasai Devalla
Robert Alexander Carraway	Hannah Gail Constantakis	Laura Ann Diggans
Gregory Alan Cass (See also S.M., Course I) Driving Growth Through Sales and Operations Planning, Inventory Management, and Supply Chain Expansion	Hunter Joseph Conti	Tonguc Barkin Doganay
	Madeleine Margaret Cooney	Rafael Donatti Alves Maia
	Gabriel Hashimoto Cordaro	James Michael Donegan (See also S.M., Course II) Sustainability Analytics – Meeting Carbon Commitments Most Efficiently
	Isabel Cordón Escobar	Yiyi Dong
		Francisco Dubournais Donoso

Michael Ryan Duch	Belén Gallego Vara	Ethan Logan Greene (See also S.M., Course II) Development of a Student Operated Production Facility Using Discrete Event Simulation and Continuous Improvement
Rebecca A. Durr	Viktorija Galperina	
Anna Kathleen Eckhoff	Evan Gao	
Kathleen Theresa Egan	José Gaytán de Ayala Roca de Togo	James Sylvester Guerin
Alain El Khoury	Olajumoke Yetunde Gbeleyi	Amitabh Guha Roy
Angeles Elias	Elorm Mortia Gbordzoe	Toni-Rose Maico Guiriba (See also S.M., Course II) Improving Supply Chain Resiliency through Aseptic Connector Alignment and Standardization
Nicholas Francis Esposito (See also S.M., Course II) Make vs. Buy Optimization for Industrial Distribution and Manufacturing Company	Margaret Calliope Georgiadis (See also S.M., Engineering and Manage- ment)	
	Boyana Svetoslavova Georgieva	Jianduo Guo (February, 2023)
Clara Estol	Benjamin R. Gertner	Pulkit Gupta
Mimi Peng Fan	Mainak Ghosh	Sahil Gupta
Steve T. Fan	John Michael Gibbons	Jose Guzman Ossandon
Ross Mulder Feehan	Aseem Goel	Jonas Richard Hauser
Catherine Tilghman Fernan	Stephanie Janet Gomez Menzies	Robert Massey Hayes
Albert B. Fernandez	Zhen Zhen Gong	Ruizhe He
Roderic Iñaki Figueroa	Amber Michelle Gonzales-Vargas	Ziv Heimlich Shtacher
Ayesha Forbes	Agustin Gonzalez de Abiega	Lauren Marie Heintz (See also S.M., Course VI) Scenario Analysis of Profitability through Simulation of Different Business Contract Models
Sarah Graff Fox	Kyle Lindon Gordon	
Santiago Frias Silva	Daniela Gorza	Marcos Helbling
Ayaka Fujisaki	Fiona Grace Gouthro (See also S.M., Course II) Innovation Process at Omnichannel DCs Undergoing Shifts in Channel Mix	Cindy Alejandra Heredia
Avery Gilbert Fullerton (See also S.M., Course II) Ship-Pack Optimization to Minimize Fulfillment Costs from Manufacturing to Customer	Rishabh Goyal	Karen Joy T. Hernandez
Francisco Javier Galindez de Jesus (See also S.M., Course II) Integrated Energy Modelling Tool for Electric and Gas Infrastructure Decision Support	Austin Elliott Gray	Zoe L. Hinton (See also S.M., Course II) Enhanced Digital Capability through the Use of Simulation in Footwear Product Creation
Gonzalo Galindo Barragan	Alexander Robert Green	Yuki Hirai (February, 2023)
		Diana Dac Ho

James Patrick Hogan

Michael Joseph Hogan

Peter Gerald Holt

Minwoo Hong

Jacob Tyler Hopkins
(See also S.M., Course II)
Performing Actionable Evaluations of Sustainability Investments

Ori Hoxha
(See also S.M., Course II)
External Network Manufacturing Capacity Design and Procurement in the Pharmaceutical Industry

Andrew Jonathan Hu

Carmen Satia Hundley

Scott Samuel Hungerford
(See also S.M., Course I)
Improving Throughput in an Aluminum Rolling Mill Using Modeling and Optimization Techniques

Ángel Ibañez

Mariam Elisabeth Ibrahim
(See also S.M., Course II)
Developing a Data-Driven Strategy for In-Process Quality Assurance for Additive Manufacturing

Kunio Iwata

Peter Emanuel Jacobson
(See also S.M., Course I)
Optimization of Private Equity Investments for Industrial Carbon Emission Reduction

Naila Noor Jahan

Haidar Jamal Baba

Francis James

Nicole Jamgotchian

Sebastião Maria Jardim de Sousa

Brayden E. Jaw

Lina Ayman Jawadi

Justin Leon Jiang
(See also S.M., Course II)
Digital Supply Chain Connectivity and Capacity Analysis for Strategic Production Planning in Biosurgery Oxidized Regenerated Cellulose

Wenfei Jiao

Yuri Jimbo

Elena Jin Li

Rutvik Viren Joglekar

Paul Mitchell Johnson
(See also S.M., Course XVI)
Parametric Study of Environmental Testing in Satellite Manufacturing

Gina Pathikulangara Joseph

Ellis José Juan, Jr.

Alexander Leo Casati Judge
(See also S.M., Course X)
Enhancing Workflows in Biologics Drug Substance Process Development Through Automation

Adam M. Jurko

Nidhi N. Juthani
(See also Ph.D., Course X)

Chanitra Kaewprasertsri

Sarah Emily Kalish
(See also M.C.P., Course XI)

Aneesh Kanakamedala

Ayesha K. Kang

Pran Karnchanapimolkul

Nattapat Kasemsarn

Rachit Kejariwal

Benjamin Elliott Kekeisen

Brian Francis Kelly

Lindsey Anne Kennington
(See also S.M., Course XXII)
A Techno-Economic Analysis of Hydrogen, Electric, and Diesel Fuel in Medium - and Heavy-Duty Transportation Applications

Dongyoung Kim

Hyun Jin Kim

Jisu Kim

Emil K. Kiroff

Scarlett E. Koller
(See also S.M., Course XVI)
Applying Satellite Broadband Connectivity with Edge Computing to New Industry Verticals

Dennis J. Konczyk

Jomi Saxl Kramer
(See also S.M., Course II)
Outside Inside, Inside Around: Leveraging External Innovation Through Strategic Investment

Samuel Parker Kruse

Erika Kurachi

Miles David Kurtz
(See also S.M., Course I)
Planogram Optimization in Support of Inventory Management

Kwan Yi Lam

Christina Lauren Langmack

Monica Laura Larrazabal

Clarice Leaman Dominguez

Renee Leatherman-Aelion

Lindsay Lebel

Jia Min Charmaine Lee

Rachel Mei Ling Lee

Samuel Parker Lehman

Aaron Jeffrey Lewin	Pooja Malhotra	Timothy Michael Miller
Priscilla Wainer Licht	Bayazid Malikov	Somesh Mohapatra (February, 2023) AI-Assisted Reaction Impurity Prediction and Inverse Structure Elucidation
Caroline Marguerite Liegey	Samuel Jack Mansberg	Alexandra Frances Moir
Hsuan Lin	Joshua Marcovici	Lucio Alexander Mondavi
Madeline Linde	Cristóbal Marín Siebel	Javier Gregorio Montero Echeverria
Darryl Andrew Lindie	Dragana Marinkovic	Eduardo Moraes Schuch
Boyuan Liu	Eduardo Maristany (See also S.M., Course XVI) Economic Analysis of 3D-Printed Ceramic Cores for Gas Turbine Investment Castings	Guillermo Moraleda Conejo
Frank Fang Liu	Phillip C. Marmolejo	Claudia M. Moreno Gonzalez
Kyna Liu	Clemens Antoine Laurent Martin	Justin Daniel Mueller
Lisa Liu (See also S.M., Course II) Model-Based Technology Roadmapping of Fuel Cells in Sustainable Aviation Applications	Shashidhar Masireddy	Michaela Elizabeth Murr (See also S.M., Course VI) Predictive Models from Real-time Sensors in Process Analytical Technology Initiative in Biomanufacturing
Mali Lou	Yutaro Matsui	Madison Christine Myers (See also S.M., Course II) On-Site Hydrogen Production via Distributed Methane Pyrolysis
Gianpaolo Luciano Rivera (See also S.M., Operations Research) Data-Driven Clustering for New Garment Forecasting	Lucia Matsumura Umemoto	Maria Corina Negrón Pardo
Michael Joseph Luis	Megan Ann McCarthy	Asia Beatrice Nelson
Ingrid Gerda Lund	George Bailey McConnell	Samuel Jared Newman
Kyle J. Lux (See also S.M., Course II) Identifying Bottlenecks through Process Consistency in High-Capacity Automated Manufacturing	Michael Ryan McGetrick	Richard P. Newton
Taylor Pano Lyberger (See also S.M., Course I) Towards Zero Defect Manufacturing in Multi-Stage Production Systems	Christopher Robert McGuire	Mauricio Neyra
Lisa Ann Lyons	James Craige McNay	Clyde-Blaise Niba
Emmanuel Rufino Maceda	Manuel Mendez	Michael Patrick Nieset
Sandhya Mahadevan	Shehara Marini Danushka Mendis	Noshin Anjum Nova
Tarek Hussam Makawi	Lorenzo Alejandro Mendoza Pulido	Cristiano Novack Amaral Pereira
Sarah Shamim Malek	Andrew James Mighty (See also S.M., Course VI) Autonomous Drone Assisted Aircraft Inspections	Akiyo Nozaki
	Gabriel Mijares Margáin	Matthew Stewart O'Neill
	Kayla Louise Miller	

Victor Ogbonnia Obiahu	Jillian Louise Puskas	Caroline Juliet Connors Sambuco
Sean Jungmin Oh	Anisha Siddiqi Quadir	Vivek C. Sandhu
Neha Onteeru	Andres Quesada Nicoli	Darron Robert Sandifer (See also S.M., Course II) Continuous Improvement Framework for a Multi-Model Production Line
Karen Eberechukwu Onwuegbule	Yashvardhan Shobhit Rajan	Omer Sheik Sanjay
Joseph Paul Samuel Orsborn	Maria Teresa Ramos Tormo	Khalyani Sankar
José Luis Ortiz Rosero	Toni Ramsay	Paula Santamaria-Missetzis
Wayne Donbi Pak	Jose Manuel Rebolledo Velasco	Caio Marques dos Santos
Jennifer Lindsey Pandolf (See also S.M., Course XVI) Investigation of Model-Based Systems Engineering Integration Challenges and Improvements	Gabriela E. Redhead	Avika Saraf
Santiago Pardo Sanchez	Almog Reshef	Julie Marie Sarasua (See also S.M., Course I) Network Optimization of a D2C Supply Chain Subject to Changing Cost Conditions and Consumer Preferences
Vicente Parodi	Yong-Min Sol Rhee	Julia Sarra Rizkallah
Juan Pascual Orero	Shira Helen Rieke	Hugh Michael Satterthwaite
Gabriel Joseph Pascualy (See also S.M., Course VI) Enabling Actionable Maintenance Analytics with Ontology-Driven Natural Language Processing	Nahel Rifai Burneo	Paige Ann Schank
Kyle Arjun Patel	Carlos Rios Riviello	Joshua Henry Scharf
Vivek Pejaver	Maria Paula Rivarola Monzon	Lisa Grace Schleuter (See also S.M., Course I) Site Material Supply Chain Optimization
Stewart Peña Feliz	Alp Rona Rodopman	Matthew Joseph Schmidt
Jonathan Perel	Alexander Rodosky	Tanner Rae Schwiesow
Aaron Perez	Flavio Rodrigues Alves Neto	Lucy Eastman Scott
Natalie Annie Petrossian	Aldo Fernando Rodriguez Garcia	Chandler Semjen
Andrew Augustus Piscione	Elena Micky Rodriguez-Villa	Lynette Hui Xin Seow
Pitchakorn Pokrud	Genevieve Emily Rogers	Marco Antonio Sepúlveda Lasen
Shanan Kumar Powell	Samuel Paul Rose	Gauri Seth
Varun Prasad	Hannah Jordan Rubin	Naveen Vishnu Sharma
Divesh Suresh Punjabi Archbold	Esther Susana Rufat Meix	Alula Teshome Shiferaw
	Anna Russell	
	Heather Elizabeth Sabel	
	Christen Frith Safko	

Kana Shinozaki	Kevin Michael Tenny (See also Ph.D., Course X)	Gaurav Verma
Matthew Neil Shisler	Jason Anthony Teno (See also S.M., Course I) Optimizing Apparel Pack Sizes Across Retailer’s North America Network	Megan Amelia Vigliarolo
Isaac F. L. Silberberg	Kaya Thomas Wilson (See also S.M., Course I) Automated Guided Vehicles for Material Flow in Fulfillment Centers	Adrian Villarreal Chavez
Guillermo Jose Siman, Jr.	Peter Song Tian	Alura Danan Vincent (See also S.M., Course I) Scenario Planning Framework & Sensitivity Analysis for New Orthopedic Sets in the Spine Platform
Matthew William Simpson	Zachary Wentworth Tieke	Shiv Anil Wadhvani
Mihiraan Malhotra Singh	Jacob Andrew Tomasovic (See also S.M., Course II) Manufacturing Integration: Managing Throughput and Organizational Change	Taylor Richandra Jandel Walker
Allison Rhett Smedberg (See also S.M., Course II) From Bench to Bucks: An Approach and Case Study in Scaling Additive R&D Technologies within the Aerospace Industry	Stephen C. Townsend	Jingyi Wang
Alexandra Elizabeth Smith	Wellington Trindade Vitorino, Sr.	Jonathan Hung-Yu Wang
Sharul Sonthalia	Tiffany Tsai	Rachel Wang
Nicha Sophonpanich	John Oscar Turner	Molly Raim Wartenberg
Ardeshir Hormazd Sorabjee	Benjamas Tusakul	Rachel Elizabeth Weintraub
Tiya Sosothikul	Onyinyechi Chiemela Ukaire (See also S.M., Course VI) Predicting and Preventing Unsafe Events at an Enterprise	Seth Michael Weintraub
Siddarth Sreeram	Shaundra Julianne Ullman	Joshua Ian Weisberg (See also S.M., Course I) Enhancing Manufacturing Performance to Plan with Predictive Analytics
Hunter Lauren Stahl	Shelby Madison Unger (See also S.M., Course VI) Analysis of Respiratory Time Series Data for Breathing Comfort Detection Prior to Sleep Onset During APAP Therapy	Dean Richard Wetty
Alexandra June Steckmest	Andrea Urbietta Ugarte	Samuel Thomas Weyen
Patrick Shaw Stewart	Cory Douglas Vandivier	Jennifer Corley Whaley
Thomas Ryan Stuart (See also S.M., Course XVI) Defining Core Manufacturing Capabilities at Raytheon Missiles & Defense	Maria del Mar Velasco	Alfre Wimberley
Haryuni Sumawijaya	Silvia Ines Velasquez Casado (February, 2023)	Olivia Lee Wold
Julianna Kathryn Swartzenberg	Diya Rao Verghese	Patrick Nelson Wolff
John Bartholomew Sweeney V		Chi Ho Wong
Max Alan Tanski (See also S.M., Course VI) Making More Miles: Automating Load Selection, Truck Dispatch, and Backhaul Activation in Outbound Logistics Operations		Ismael Juan Xique
		Zixi Xu
		Ivan Jia Lun Yang

Mert Can Yavuz

Chongbo You

Shaopeng Zhang

Juntong Zhu

Master of Business Analytics

Course XV-N

Sloan School of Management

Kim Rachel Adler

(September, 2022)

Christopher Sebastian Aeberli

(September, 2022)

Gabriel Isaac Afriat

(September, 2022)

Omar Abdelaziz Ayed

(September, 2022)

Jordan Nicole Baruch

(September, 2022)

Alexander Kenneth Birch

(September, 2022)

Harry Moses Channing

(September, 2022)

Qiqi Chen

(September, 2022)

Luis Costa Laveron

(September, 2022)

Tiana Cui

(September, 2022)

Sara Tarek Darwish Elsayed Darwish

(September, 2022)

Devashis Bose Das

(September, 2022)

Caroline Grace Daugherty

(September, 2022)

Daniel Elechiguerra Batlle

(September, 2022)

Alessandro Fedel

(September, 2022)

Bohao Feng

(September, 2022)

Jingyuan Gan

(September, 2022)

Grace Anne Ruggiero Garbrecht

(September, 2022)

Semi Hasaj

(September, 2022)

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(September, 2022)

James Walter Hennessy

(September, 2022)

Erik Viktor Henriksson

(September, 2022)

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(September, 2022)

Anton Ipsen

(September, 2022)

Arpit Jain

(September, 2022)

Jesus Alfonso Juarez Palazuelos

(September, 2022)

Ryme Kabak

(September, 2022)

Rahul Kasar

(September, 2022)

Shaleenraj Kaur

(September, 2022)

Naomi Keis

(September, 2022)

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(September, 2022)

Ananya Jayalakshmi Krishnan

(September, 2022)

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(September, 2022)

Benedict Shee Toh Lee

(September, 2022)

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(September, 2022)

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(September, 2022)

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(September, 2022)

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(September, 2022)

Maria Camila Marengo Tamara

(September, 2022)

Kyle Berry Maulden

(September, 2022)

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(September, 2022)

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(September, 2022)

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Ultan Brian O'Rourke

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(September, 2022)

Jesús Rafael Sánchez Sánchez

(September, 2022)

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(September, 2022)

Ishaan Jordan Singham
(September, 2022)

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(September, 2022)

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(September, 2022)

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(September, 2022)

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(September, 2022)

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(September, 2022)

Yuepeng Wang
(September, 2022)

Zijin Wang
(September, 2022)

Yijun Wei
(September, 2022)

Dayna V. Wilmot
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Siqi Wu
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Rocky Ziang Xie
(September, 2022)

Yiwen Zhang
(September, 2022)

Jiesi Zhou
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**Master of Science in
Management**

Course XV
Sloan School of Management

David D. Covell
(See also S.M., Course VI)
Preventing WIPlash: Implementation of
a Controlled Release Strategy to Improve
Shop Performance

Master of Finance
Course XV-F
Sloan School of Management

Tobias Matthias Adam
(February, 2023)

Nicolas Agrotis
(February, 2023)

Abdulla Salem Alkaabi
(February, 2023)

**Hussam Ibrahim Abdulrahman Alo-
qayli**
(February, 2023)

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(February, 2023)

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(February, 2023)

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Meryem Bennani

Diane Bonnault

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Yuchen Cao
(February, 2023)

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Ramana Mayur Carthigesan
(February, 2023)

Goffredo Casadei
(February, 2023)

Saad Chris Cheiban

Shihan Chen
(February, 2023)

Simin Chen
(February, 2023)

Tianyi Chen
(February, 2023)

Xi Chen
(February, 2023)

Yang Chen
(February, 2023)
Predicting the Price of Crude Oil and Its
Derivatives: A News-Oriented Hybrid
Deep Learning Approach

Junming Cui
(February, 2023)

Thomas Cui
(February, 2023)

Jared Austen Day
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Lilian Denis Albert Delamare

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Tivas Edward Gupta

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Liehan Jiang
(February, 2023)

Abhishri Kabra
(February, 2023)

Hedi Kalai
(February, 2023)

Maria Christina Kalogera
(February, 2023)
Multi-Dimensional Derivatives Hedging

Alexander James Kitsberg
(February, 2023)

Maxime Lamy

Pavel Leshchev
(February, 2023)

Boyang Li
(February, 2023)

Chenglin Li
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Dislocation

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(February, 2023)

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Feipeng Qi
(February, 2023)

Jingya Qi
(February, 2023)

Samson Qian
(February, 2023)
Multi-Agent Deep Reinforcement
Learning and GAN-Based Market
Simulation for Derivatives Pricing and
Dynamic Hedging

Xinyue Qian
(February, 2023)

Kaizhong Qiu
(February, 2023)

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Yue Shu
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(February, 2023)

Colin Thomas Suvak
The Impact of Fiscal and Monetary Policy
on the Cross-Sectional Value Factor

Emil John Syré
(February, 2023)

Zimo Tang
(February, 2023)

Jimmy Teng
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Lizabeth Joana Tirado Torres
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Ruizhou Yang
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Zehao Zhang
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Changming Zhao
(February, 2023)

Jiulei Zhu
(February, 2023)
Crises Learning under Diagnosticity

Yifei Zou
(February, 2023)

Master of Science in Management Studies

Course XV-S

Sloan School of Management

Rodrigo Ignacio Berner Bensen
Matching Individual Environmental,
Social and Governance Revealed
Preferences with Investment Portfolios

Jinlan Chen

The Drivers of ESG Index
Outperformance: A Transatlantic Analysis
of US and European Markets

Yanzhang Chen

Designing an Investment Research
System for Asset Management Based on
Natural Language Processing

Yu Tai Chen

Gamification in Marketing to Increase
Customer Retention

Ki Chun Ian Chiang

Investment Landscape of Generative AI
and Its Market & Governmental Impact
on Society

Eduardo Garza de Zamacona

Why do Platforms Fail

Ningxin Huang

Emerging Markets Penetration Strategy
in the Deglobalization Era - A Case Study
of the NEV Industry in Southeast Asia

Hongxuan Jia

Impact of Restricted Stock Grant (RSG)
Issuance on Financial Performance of US
Software and IT Companies

Ryan Idris Kamaruddin

ChatGPT and the Future of Management
Consulting: Opportunities and
Challenges Ahead

Jocelyn Ann Keyser

Reinventing the (Spinning) Wheel: A
Systems Map to Scale Bacterial Grown
Materials

Yvette Man-yi Kong

Strategizing the Value Proposition of
Higher Education for Generation Alpha:
The Business Case of Community

Alice Salomee Morgensztern
Design of a Robust Qualitative Method
for the Assessment of the MIT REAP
Impact on Formerly Engaged Innovation
Ecosystems

Felix Claus Julius Naerger
Evaluation of Residential Real Estate
Energy-Rating Systems in Germany, and
their Applicability to the United States

Krittamate Pramniya
Overview of Non-Fungible Tokens: Key
Features, Opportunities, Challenges, and
Business Use Cases

Mathilde Camille Julie Robinet
Unveiling the ESG Landscape: Exploring
Revealed Preferences through Archetypal
Analysis of Decision-Makers in
Environmental, Social, and Governance
Causes

Xiaoyu Shi
A Study of the Individual Pension Funds
Allocation Strategy in China

Loan Tricot
Effects of Redistributive Tax Policies on
Fuel Demand

Tristan Pierre Gaëtan Watel-Dehaynin
Moving Towards a More Sustainable
Model of Energy Production &
Consumption: A Case for Indonesia

Tianyi Zhang
Application of A System Dynamic Model
on U.S. Regional Real Estate Industry

Xianmin Zhu
Analysis of the Prospects and
Development of China's Online
Healthcare Industry: Opportunities and
Challenges

**Master of Science in
Management of Technology**
Course XV-A
Sloan School of Management

Anderson da Silva Pereira
Inclusive FinTech – How Financial
Technologies Can Tackle Global Problems

Ângelo José Bergamaschi Vicente
The Coordination Imperative: A
Comprehensive Approach to Align
Customer Demand and Inventory
Management for Superior Customer
Experience in Retail (with K. Kondo)

**Master of Science in
Management Research**
Course XV
Sloan School of Management

Xi Chen
(September, 2022)
Bridging Time Preferences and Social
Preferences

Luca Gius
(February, 2023)
Great Ideas (Don't) Sell Themselves: The
Disclosure Paradox in Digital Startups
Auctions

Graelyn Blatner Humiston
(February, 2023)
Revealing the Illusion of Explanatory
Depth May Hinder Persuasion

Audrey Mang
Do Women Ask? Gender Differences in
Applying for Internal Job Openings

Claire C. McKenna
(September, 2022)
Workplace Change in an Age of
Insecurity: Evidence from a U.S.
Automaker

Andrew Minster
(February, 2023)
Compounding Ambiguity: When
Workers Leave Meaningful Work

Hirotaaka Miura
(February, 2023)
Mutual Information as a Predictor of
Group Performance: Application to
Soccer Teams

Zanele Tanyaradzwa Munyikwa
(February, 2023)
The Last Mile of Broadband: Examining
the Economic Impacts of the Connect
America Fund

Christina Angie Nguyen
(September, 2022)
Do Externally-Hired Managers Increase
Innovation? Evidence from the U.S.
Government

Hong Yi Tu Ye
How Many Americans Work Remotely?
A Survey of Surveys and Their
Measurement Issues

Yevhenii Usenko
Inflation, Taxation, and Corporate
Investment in the U.S. During the Great
Inflation

John Ross Wilson
The Propensity to Borrow out of
Expected Permanent Income

**Master of Science in Operations
Research**

*Sloan School of Management in
conjunction with the Schwarzman
College of Computing*

Kathryn Elizabeth Angevine

(See also M.B.A., Course XV)

Multi-Modal Transit Time Prediction for
E-Commerce Fulfillment Optimization
and Carbon Emissions Reduction

Riade Benbaki

Topics in Sparsity and Compression:
From High Dimensional Statistics to
Overparametrized Neural Networks

Gauthier Marc Benoit Guinet

(September, 2022)

Bandit Problems Under Censored
Feedback

Gianpaolo Luciano Rivera

(See also M.B.A., Course XV)

Data-Driven Clustering for New Garment
Forecasting

Martin Rame

Branch-and-Price for Prescriptive
Contagion Analytics

Rebecca Penny Reubenstein

Equitable Community Health Worker
Deployment in Sub-Saharan Africa: A
Modeling Framework for Stochastic
Health Progression

Benjamin Marlowe Siegel

Innovative Supply Chain Cyber Risk
Analytics: Unsupervised Clustering and
Reinforcement Learning Approaches

SCHOOL OF SCIENCE

Master of Science in Chemistry

Course V

Department of Chemistry

Gisselle Pombar

(September, 2022)

Studies on Organophosphorus Catalyzed C(sp³)-H Amination for the Synthesis of Benzimidazoles

Master of Science in Biology

Course VII

Department of Biology

David Gorestki

(September, 2022)

Engineering Apomixis in Plants to Stabilize Intergenerational Hybrid Vigor

Master of Science in Brain and Cognitive Sciences

Course IX

Department of Brain and Cognitive Sciences

Margaret Grace McCue

Mechanisms Underlying Learning Mediated Plasticity in the Adult Mammalian Olfactory Bulb

Master of Engineering in Computation and Cognition

Course VI-9

Department of Brain and Cognitive Sciences

Tyler H. Allen

Leveraging BERT Extractive Summarization to Predict the Future of Law

Alexandra Berg

Single-Nucleus Multi-Region Transcriptional Characterization of Four-Repeat Tauopathic Neurodegenerative Disorders

Curtis C. Chen

(See also S.B., Course VI-9)

A Purely Granularity-Based Account of Positive-Form Gradable Adjectives

Benjamin Dwyer

Enabling Secure Vehicle to Infrastructure Communications via Two-Factor Authentication

Anne Hanako Kimura Harrington

Exploring the Properties of Human Vision in Computer Vision

Caleb M. Harris

(September, 2022)

Medship: Affective Computing for Building Empathetic Behaviors Toward Patients with Substance Use Disorders

Doron Hazan

DECIDE-ML: A Data-Driven Exploration and Clustering Informed Decision-Making Framework for Sustainable City Metabolism and Climate Mitigation

Annika L. Heuser

(September, 2022)

Transformer-Maze

Michelle S. Hung

Modeling Social Actions as Communication about Relationships

Linette Kunin

(See also S.B., Course VI-9)

Conceptual and Perceptual Novelty as Distinct Motives of Infant Looking

Vinh Phúc Lê

Neuron Image Segmentation via Colorization

Noah H. Lee

(February, 2023)

A Ubiquitous Spectrolaminar Motif of Local Field Potential Power across Cortex

Mariela M. Perez-Cabarcas

Multimodal Physiological Signal Sensing for Continual Learning in an Implantable Device to Predict and Respond to the Onset of Hypoglycemia

Master of Science in Climate Physics and Chemistry

Course XII

Department of Earth, Atmospheric, and Planetary Sciences

Christine M. Padalino

The Effect of Eddies on fCO₂ in the North Pacific Surface Ocean

Master of Science in Earth and Planetary Sciences

Course XII

Department of Earth, Atmospheric, and Planetary Sciences

Jing Jian

(September, 2022)

Probing Mantle Transition Zone beneath Central Pacific Using PP-Precursors

AWARDED JOINTLY WITH THE WOODS HOLE OCEANOGRAPHIC INSTITUTION

Master of Science in Mechanical Engineering

Gregory A. Burgess

Course II

(September, 2022)

In-situ Characterization of Sea State with Improved Navigation on an Autonomous Underwater Glider

Nicholas Craig Evans

Course II

(September, 2022)

A Practical Search with Voronoi Distributed Autonomous Marine Swarms

Kathryn Melissa Fung

Course II

(September, 2022)

Oceanic Ambient Noise in the Arctic on the Chukchi Shelf: Broadband Characteristics and Environmental Drivers

Nicholas Edward Swanda

Course II

(September, 2022)

High Frequency Acoustic Propagation and Modeling in Stratified Estuaries

Peter Thomas Ventola

Course II

(September, 2022)

Developing the Next Generation of Autonomous Underwater Gliders

Master of Science in Electrical Engineering and Computer Science

Daniel Xin Yang

Course VI

Rank2Reward: Learning Robot Reward Functions from Passive Video

Master of Science in Chemical Oceanography

Solomon T. Chen

Course XII

(February, 2023)

Quantifying Pelagic Primary Production via Automated In-Situ Incubation Systems (PhRePhOx)

Luciana Villarroel

Course XII

(September, 2022)

The Fate of Anthropogenic Nitrogen in a Redox Stratified Pond: An Isotopic Approach

Master of Science in Marine Geology and Geophysics

Faith Joan Duffy

Course XII

(September, 2022)

An Inverse Modeling Approach to Investigate Deep Ocean Ventilation from Radiocarbon Records

Master of Science in Aeronautics and Astronautics

Amy Ngo Phung

Course XVI

Enabling Robotic Manipulation in Remote Environments with Shared Autonomy

SCHOOL OF ARCHITECTURE AND PLANNING, DOCTORAL

Doctor of Philosophy

School of Architecture and Planning

Rounaq Basu

(September, 2022)

Thesis in the field of Urban Science and Planning submitted to the Department of Urban Studies and Planning: Planning Sustainable Cities: Coordinating Accessibility Improvements with Housing Policies

Guillermo Roman Bernal Cubias

Thesis in the field of Media Arts and Sciences: Into the Wild: Deploying Brain and Physiological Sensing in Natural Environments to Enhance Wake and Sleep Cognitive Behavioral Studies

Christianna Susan Bonin

(February, 2023)

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: Decentering Russia: Art and Empire, 1900-1973

Daniel Matthew Calacci

Thesis in the field of Media Arts and Sciences: Centering Communities in Research and Technology Design

Juliana Mae Cherston

(September, 2022)

Thesis in the field of Media Arts and Sciences: The Well-Dressed Spacecraft: Textiles for Cosmic Dust Metrology

Jungwoo Chun

(February, 2023)

Thesis in the field of Environmental Policy and Planning submitted to the Department of Urban Studies and Planning: New Roles for Intermediaries: The Case of Community Owned Solar Energy Development

Pedro Antonio Colon-Hernandez

Thesis in the field of Media Arts and Sciences: A Conversational Agent for Dynamic Procedural Interactions

Alexandra Courcoula

(February, 2023)

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: The Benaki Museum in Interwar Greece: Constructing Greek Art & the Greek Nation After the Fall of the Ottoman Empire

Silvia Danielak

(February, 2023)

Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: The Infrastructure of Peace: Socio-Spatial Planning in UN Peace Operations

Dinuki Nushelle de Silva

(September, 2022)

Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Moving Experiences: Traveling Museum Exhibitions and the Infrastructures of Cultural Globalization

Duygu Demir

(September, 2022)

Thesis in the field of Architecture: History and Theory of Art submitted to the Department of Architecture: A Syncretic Modernism: Articulations of Painting in Turkey (1910s-1940s)

Asmaa Elgamal

Thesis in International Development and Planning submitted to the Department of Urban Studies and Planning: Landing Security: Risk, Endogeneity, and the Archives of Colonialized Planning in Morocco

Daniel L. Engelberg

Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Embracing the Uncertain Future: Three Papers of Uncertainty in Analysis, Planning, and Policy-Making

Ziv Green Epstein

Thesis in the field of Media Arts and Sciences: The Dynamics of Attention in Digital Ecosystems

Matthew Robert Groh

Thesis in the field of Media Arts and Sciences: The Science and Art of Human and Artificial Intelligence Collaboration

Iheb Guermazi

(September, 2022)

Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: The Spiritual Turn: Modern Sufism and the Study of Islamic Art

Adam Jedidiah Haar Horowitz

(September, 2022)

Thesis in the field of Media Arts and Sciences: Interfacing with Dreams: Novel Technologies and Protocols for Targeted Dream Incubation

Alexandros Haridis

(September, 2022)

Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Visual Calculating Aesthetic Value: Formal Models of Description and Evaluation for Aesthetic Systems

Yijiang Huang

(September, 2022)

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Algorithmic Planning for Robotic Assembly of Building Structures

Mohamed Abdelbagi Ismail

(February, 2023)

Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Reshaping Concrete: Empowering Development through Low-Carbon Structural Design

Caroline Adair Jaffe

(September, 2022)

Thesis in the field of Media Arts and Sciences: An Environmental and Economic Systems Analysis of Land Use Decisions in the Massachusetts Cranberry Industry

Sooyeon Jeong
(September, 2022)
Thesis in the field of Media Arts and Sciences: Designing and Deploying Robotic Companions to Improve Human Psychological Wellbeing

Eliyahu Keller
(September, 2022)
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Drawing Apocalypse: Architectural Representation in the Nuclear Age and the Imagination of the End

Nicolas Alexander Lee
Thesis in the field of Media Arts and Sciences: Endless Ecosystems - Designing a World without Waste

Nicole L'Huillier Chaparro
(September, 2022)
Thesis in the field of Media Arts and Sciences: Membranas

Babak Manouchehrifar
(September, 2022)
Thesis in the field of Urban and Regional Studies submitted to the Department of Urban Studies and Planning: Urban Planning and Religious Practice: Three Challenges

Caroline Elizabeth Murphy
(February, 2023)
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: Waters and Welfare: Rivers, Infrastructure, and the Territorial Imagination in Grand Ducal Tuscany, ca. 1549–1609

Deborah Anne Najjar
(September, 2022)
Thesis in the field of Media Arts and Sciences: CRISPR Biosensors for Resource-Limited Nucleic Acid Detection

Anastasia Katharine Ostrowski
Thesis in the field of Media Arts and Sciences: How do we Design Robots Equitably?: Engaging Design Justice, Design Fictions, and Co-Design in Human-Robot Interaction Design and Policymaking Processes

Soyoung Park
(September, 2022)
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Transclave Economy: Immigrant Business Survival in an Era of Pandemic

Wenzhe Peng
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Visual Experience in Temporal Situational Context: Method of Matching and Modeling in Design

Diego Ignacio Pinochet Puentes
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Computational Gestural Making: A Framework for Exploring the Creative Potential of Gestures, Materials, and Computational Tools

Jack Burnett Reid
Thesis in the field of Media Arts and Sciences: Using Earth Observation-Informed Modeling to Inform Sustainable Development Decision-Making

Arianna Salazar Miranda
Thesis in the field of Computational Urban Science and Planning submitted to the Department of Urban Studies and Planning: Building Sustainable and Inclusive Cities: Analyzing the Impact of Planning Paradigms in the US

Chandra Shekhar
(September, 2022)
Thesis in the field of Public Policy and Environmental Philosophy submitted to the Department of Urban Studies and Planning: State, Street, and Public Goods: A Theory of Misgovernance

Tay Won Shin
Thesis in the field of Media Arts and Sciences: Ultrastructural Membrane Expansion Microscopy

Samuel Lee Spaulding
(September, 2022)
Thesis in the field of Media Arts and Sciences: Lifelong Personalization for Social Robot Learning Companions: Interactive Student Modeling Across Tasks and Over Time

Tristan Breden Swedish
(September, 2022)
Thesis in the field of Media Arts and Sciences: Computational Discovery of Hidden Cues in Photographs

Darien Alexander Williams
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Locating a Black Planning Tradition and Spatializing Black Nationalism

SCHWARZMAN COLLEGE OF COMPUTING, DOCTORAL

Doctor of Philosophy

Schwarzman College of Computing

Chin-Chia Hsu

(September, 2022)

Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Misinformation, Persuasion, and News Media on Social Networks

Yan Jin

(February, 2023)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Voting, Social Networks, and Polarization: Models for Information Aggregation in Social Settings

Yi Sun

(February, 2023)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Algorithmic Fairness in Sequential Decision Making

Max Aidas Vilgalys

(September, 2022)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Essays on Measuring Climate Change Damages and Adaptation

Mengying Wu

(February, 2023)

Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Local Official and Polluter Accountability in China's Environmental Inspections

Yunzong Xu

Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Data-Driven Dynamic Decision Making: Algorithms, Structures, and Complexity Analysis

SCHOOL OF ENGINEERING, DOCTORAL

Doctor of Science

School of Engineering

Michael George Fifield

Thesis in the field of Aeronautics and Astronautics: Adaptive and Responsive Design Under Uncertainty for Resource-Constrained Small Satellites

Jiyun Kang

(September, 2022)

Thesis in the field of Materials Science and Engineering: Microscopic Strain Localization and Damage in Multi-Phase Alloys

Konstantinos Keremidis

(February, 2023)

Thesis in the field of Structures and Materials submitted to the Department of Civil and Environmental Engineering: Kinetic Temperature of Structures for Resilience, Instability and Failure Analysis of Building Systems

So Yeon Kim

Thesis in the field of Materials Science and Engineering: Design and Development of Damage-Tolerant Active Materials

Runze Liu

Thesis in the field of Materials Science and Engineering: Design of 3D Complex Nanostructures Using Block Copolymer Self-Assembly

Haoxue Yan

(September, 2022)

Thesis in the field of Materials Science and Engineering: Beyond Embrittlement: In-Situ Explorations of Hydrogen Effects Near the Boundaries

Doctor of Philosophy

School of Engineering

Raj Abhijit Dandekar

(September, 2022)

Thesis in the field of Computational Science and Engineering submitted to the Department of Civil and Environmental Engineering: A New Way to Do Epidemic Modeling

Thomas Joseph Abitante

Thesis in the field of Bioastronautics submitted to the Harvard-MIT Program in Health Sciences and Technology: Evaluation of Neuromuscular Electrical Stimulation as a Bone Loss Countermeasure on a Long Duration Mars Mission

Sayed Mazdak Abulnaga

Thesis in the field of Electrical Engineering and Computer Science: Volumetric Mapping for Medical Imaging and Geometry Processing

Bernardo Aceituno Cabezas

Thesis in the field of Mechanical Engineering: An Optimization Approach to Certified Manipulation

Julius Adebola Adebayo

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Tools for Debugging Machine Learning Models

Aviv Adler

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: The Traveling Salesman Problem for Systems with Dynamic Constraints

Monica Agrawal

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Scalable Structured Data from Clinical Text

Rashed Abdulazeez Al-Rashed

(September, 2022)

Thesis in the field of Mechanical Engineering: An Assessment of Community-Scale Electrodialysis Desalination Systems and Improved Scale Mitigation through Pulsed Operation

Juliette Suzanne Jacqueline Alain

(September, 2022)

Thesis in the field of Materials Science and Engineering: From Elastic Electrodes to Fabric Systems

Ferran Alet i Puig

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Extending the Spectrum of Learning to Learn

Maryam Ali A Alghannam

(February, 2023)

Thesis in the field of Computational Science and Engineering submitted to the Department of Civil and Environmental Engineering: Mathematical and Computational Modeling of Injection-Induced Seismicity

Mohammad Ayman Alkhadra

(September, 2022)

(See also S.M., Course X-A)

Thesis in the field of Chemical Engineering: Selective Ion Separations Using Shock Electrodialysis

Omar Suliman H Alolayan

Thesis in the field of Civil and Environmental Engineering: Machine Learning Based Algorithms for Improving Forecasting in Subsurface Energy Resources

Emily Morgan Alsentzer

(September, 2022)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Few Shot Learning for Rare Disease Diagnosis

Jason Max Altschuler

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Transport and Beyond: Efficient Optimization over Probability Distributions

Yamin Ishraq Arefeen

Thesis in the field of Electrical Engineering and Computer Science: Combining Computational Techniques with Physics for Applications in Accelerated MRI

Toros Arikan

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Localization and Structure Learning in Reverberant Environments

Alexandre Armengol Urpi

Thesis in the field of Mechanical Engineering: Capturing Tacit Knowledge of Experts through the Study of Visual Attention: Applications for Human Expertise and AI

Naveen T. Arunachalam

Thesis in the field of Chemical Engineering: Autonomous First-Principles Design of Transition Metal Complexes

Adam Alexander Atanas

Thesis in the field of Computational and Systems Biology: Brain-Wide Representations of Behavior Spanning Multiple Timescales and States in *C. elegans*

Kyriakos Axiotis

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Flows, Submodularity, Sparsity, and Beyond: Continuous Optimization Insights for Discrete Problems

Saumil Bandyopadhyay

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Accelerating Artificial Intelligence with Programmable Silicon Photonics

Carlos Barajas

(September, 2022)

Thesis in the field of Mechanical Engineering: Modeling and Controlling Resource Loading in Bacterial Genetic Circuits

Maria Bauza Villalonga

(September, 2022)

Thesis in the field of Mechanical Engineering: Visuo-Tactile Perception for Dexterous Robotic Manipulation

Amanda M. Beck

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: State Space Methods Using Biologically-Relevant Generative Models to Analyze Neural Signals

Haley Katherine Beech

Thesis in the field of Chemical Engineering: Synthesis, Characterization, and Theory of Polymer Gels to Elucidate Topology-Property Relationships

Zied Ben Chaouch

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Risk and Uncertainty in Healthcare Finance, Investment Management, and Asset Pricing

Joseph Don Berleant

Thesis in the field of Biological Engineering: DNA-Based Non-Orthogonal Interaction Networks: Theory, Design, and Application to DNA Computing and Memory

Marc Dylan Berliner

(February, 2023)

Thesis in the field of Chemical Engineering: Simulating, Controlling, and Understanding Lithium-Ion Battery Models

Eric Alexander Bersin

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Techniques for Deployed Quantum Networks with Solid-State Defect Centers

Matthew Ryan Billingsley

(February, 2023)

Thesis in the field of Chemical Engineering: Mathematical Tools for Discontinuous Dynamical Systems

Molly Anne Bird

(September, 2022)

Thesis in the field of Biological Engineering: Investigating the Role of RNA-Binding Proteins in Tumor Response to DNA Damage-Inducing Chemotherapy

Jonathan Birjiniuk

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Modeled and Unmodeled Approaches for Quantification of the Cardiac Autonomic Nervous System

Bodhisatwa Biswas

(September, 2022)

Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering: Impact of Wave-Filament Scattering in the Scrape-Off Layer during Lower Hybrid Current Drive

Colin Edward Bittner

(September, 2022)

Thesis in the field of Chemical Engineering: Self-Assembling Peptide Nanofibers RADA16 and IEIK13 for Rapid Hemostasis

Jessica Danielle Boles

(September, 2022)

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Power Electronics Meet Piezoelectrics: Converters, Components, and Miniaturization

Thomas Emile Bourgeat

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Hardware Specification and Verification in Rule-Based Hardware Design Languages

Roberto Brenes

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Microscale Energy Transport in Lead Halide Perovskites

Michael Cian Brennan

Thesis in the field of Computational Science and Engineering: Gradient-Based Dimension Reduction for Bayesian Inverse Problems and Simulation-Based Inference

Arthur Brown

Thesis in the field of Aeronautics and Astronautics: Towards Practical Fixed-Wing Aircraft with Electroaerodynamic Propulsion

Noam Buckman

(February, 2023)

Thesis in the field of Mechanical Engineering: Semi-Cooperative Planning in Mixed Human-Autonomous Environments

Dylan Maxwell Cable

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Computational and Statistical Methods for Analysis of Spatial Transcriptomics Data

Alejandro D. Cabrales Hernandez

Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Orbit and Attitude Control for (non-) Rotating Space-Based Telescopes Utilizing Reflectivity Control Devices

Francis Cangialosi

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Privacy-Preserving Video Analytics

Taylor Marie Cannon

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Volumetric Optical Imaging of Tissue Microstructure for Grading of Dysplasia in vivo

Yunteng Cao

(September, 2022)

Thesis in the field of Structures and Materials submitted to the Department of Civil and Environmental Engineering: Precision Delivery of Multi-Scale Payloads to Tissue-Specific Targets in Plants

Rebecca Joy Carlson

Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Functional Genomic and Image-Based Screening Approaches for Probing Host-Pathogen Interactions

Brandon Michael Carter

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Interpretations of Machine Learning and Their Application to Therapeutic Design

Thérèse Carter

(September, 2022)

Thesis in the field of Civil and Environmental Engineering: Investigating the Representation of Smoke and Its Implications for Air Quality and Climate

Grissel Cervantes Jaramillo

(February, 2023)

Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Suppression of the Ubiquitin Ligase Function of FBXW7 Accelerates Metastatic Progression of Pancreatic Ductal Adenocarcinoma

Maytee Chantharayukhonthorn

Thesis in the field of Mechanical Engineering: A Hybrid Discrete and Continuum Framework for Multiscale Modeling

Brynmor Kentaro Chapman

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: A Dual Perspective on Computational Complexity

Alexis-Tzianni Charalampopoulos

Thesis in the field of Mechanical Engineering and Statistics submitted to the Department of Mechanical Engineering: Coarse-Grained Models for Prediction, Uncertainty Quantification, and Extreme Event Statistics of Turbulent Flows in Engineering and Geophysical Settings Using Physics-Consistent Data-Driven Closures

Aaron Solomon Charous

Thesis in the field of Mechanical Engineering and Computational Science submitted to the Department of Mechanical Engineering: Dynamical Reduced-Order Models for High-Dimensional Systems

Keith Ming Hong Cheah

(See also S.M., Course X-A)

Thesis in the field of Chemical Engineering: Protein-Based Degradation Strategies Against Oncogenic RAS

Irene Yunshien Chen

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Machine Learning Approaches Towards Equitable Healthcare

Jingkai Chen

(September, 2022)

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Hybrid Concurrent Planning with Heterogeneous Robot Teams for Timed Goals

Liang-Hsun Chen

(September, 2022)

Thesis in the field of Chemical Engineering: Nanoemulsion-Loaded Hydrogels for Advanced Pharmaceutical Formulations

Lijie Chen

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: New Connections Between Hardness and Pseudorandomness

Melinda Chen

(February, 2023)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: QUILT (Quantitative Ultrasound in Longitudinal Tissue Tracking): Stitching 2D Images into 3D Volumes for Organ Health Monitoring

Pin-Yi Chen

(February, 2023)

Thesis in the field of Analytics for Supply Chain submitted to the Department of Mechanical Engineering: Order Fulfillment Algorithms for Online Retail

Ruicong Chen

Thesis in the field of Electrical Engineering and Computer Science: Analog-to-Digital Converters for Secure and Emerging AIoT Applications

Yuankang Chen

Thesis in the field of Air-Breathing Propulsion submitted to the Department of Aeronautics and Astronautics: Technology Demonstration of a Megawatt-Class Integrated Motor Drive for Aircraft Propulsion

Zhantao Chen

(September, 2022)
Thesis in the field of Mechanical Engineering: Machine Learning for Phonon Thermal Transport

Lillian Tiffany Chin

Thesis in the field of Electrical Engineering and Computer Science: Function Follows Form: An Exploration of Robotic Embodiment through Geometry

Stephen Chou

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Format Abstractions for the Compilation of Sparse Tensor Algebra

Chun Man Chow

(February, 2023)
Thesis in the field of Chemical Engineering: Nanoporous Graphene Membranes for Health and Environmental Applications

Matthew Ruiyan Chua

(September, 2022)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Charge Carrier Balance in Lead Halide Perovskite Light Emitting Diodes

Chanwoo Chung

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Implementing Accelerated Key-Value Store: From SSDs to Datacenter Servers

Minju Chung

Thesis in the field of Chemical Engineering: Electrochemical Alkene Epoxidation Using Water as the Oxygen Source

Yunsie Chung

(February, 2023)
Thesis in the field of Chemical Engineering: Developing Predictive Tools for Solvent Effects on Thermodynamics and Kinetics

Ondrej Čierny

Thesis in the field of Aeronautics and Astronautics: Sensorless Wavefront Correction Algorithms for Free-Space Optical Communications

Marco Colangelo

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Superconducting Nanowire Technology for Microwave and Photonics Applications

Michael Joseph Coulombe

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Algorithms and Hardness in Single and Multiplayer Games and Other Limited Computational Models

Andrew Thomas Cummings

Thesis in the field of Aeronautics and Astronautics: Development of a Special Purpose End-to-End Satellite Constellation Design Methodology

Yuval Dagan

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Statistical Estimation from Dependent and Adversarial Data

Wangzhi Dai

(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Tackling Key Challenges to Guide Clinical Decisions in Cardiovascular Diseases

Thomas Defferriere

(September, 2022)
Thesis in the field of Materials Science and Engineering: Defects and Ionic Transport at Reduced Temperatures – Electric Field and Optical Control on Nanoscopic Spatial Scales

Ellen M. DeGennaro

(February, 2023)
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Clonal Architecture and Genetic Regulation of the Developing Mammalian Cerebral Cortex

Elad Deiss-Yehiely

(February, 2023)
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Controlling the Bio-Nano Interface via Engineered Layer-by-Layer Nanoparticles for Treatment of Biofilm-Based Infections

Jose Pedro de Souza

(September, 2022)
Thesis in the field of Chemical Engineering: Microscopic Physics of Electrical Double Layers

Jialin Ding

(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Instance-Optimized Database Indexes and Storage Layouts

Huifeng Du

(September, 2022)
Thesis in the field of Mechanical Engineering: Dynamic Studies of Instability-Triggered Intersonic Surface Detachment Waves in Soft Material Sliding

Max Atticus O'Rourke English

(September, 2022)
Thesis in the field of Biological Engineering: Synthetic Biology Tools for Sensing and Evolving Microbes: CRISPR-Diagnostics and Transposon-Mediated Genome Re-Wiring

Andres Erbsen

(February, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Foundational Integration Verification of Diverse Software and Hardware Components

Emre Ergecen

Thesis in the field of Electrical Engineering and Computer Science: Ultrafast Probing of Nonlinear Dynamics in Quantum Materials: Beyond Linear Response Probes

Amanda Lynn Facklam

(September, 2022)
Thesis in the field of Biological Engineering: Uncovering Biological Mechanisms of Immunomodulatory Biomaterials for Encapsulated Cell Therapies

Alexis Maguin Fenton, Jr.

(September, 2022)
Thesis in the field of Chemical Engineering: Voltammetric Methods Augmented with Physical Models and Statistical Inference

John Killian Feser

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Inductive and Deductive Program Synthesis for Database Applications

Samuel Frank

(February, 2023)
Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering: An Investigation of Full-Wave Effects on Lower-Hybrid Wave Propagation, Absorption, and Current Drive

Jonathan Elliott Frankle

(February, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: The Lottery Ticket Hypothesis: On Sparse, Trainable Neural Networks

Cory Vincent Frontin

(February, 2023)
Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Error Behavior and Optimal Discretization of Chaotic Differential Equations

Xinzhe Fu

(February, 2023)
Thesis in the field of Communications and Networks submitted to the Department of Aeronautics and Astronautics: Learning-NUM: Utility Maximization in Stochastic Queueing Networks

Axel Antonio Garcia Burgos

Thesis in the field of Aeronautics and Astronautics: Integral Quadratic Constraints and Safety Certificates for Uncertainty Characterization and Control Safety-Aware Filtering of Proximity Operations Between Satellites

Indie Camille Garwood

Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Probing the Depths of Unconsciousness with Multifunctional Neurotechnology

Efrat Goffer

(February, 2023)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Optimization of Hemodynamics from Mechanical Support Devices in Cardiogenic Shock

Maxwell Philip Gold

(September, 2022)
Thesis in the field of Computational and Systems Biology: Machine Learning Applications for Neurological Diseases

Nicolás Gómez Vega

Thesis in the field of Aeronautics and Astronautics: Advances in Electroaerodynamic Thrusters for Aircraft Propulsion

Sheng Gong

(September, 2022)
Thesis in the field of Materials Science and Engineering: Improving Supervised Machine Learning for Materials Science

Khloe Sandra Gordon Wei

Thesis in the field of Biological Engineering: Pooled Screening of Chimeric Antigen Receptor Signaling for Improved Clinical Function

Amy Greene

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Calibration and Utilization of High-Fidelity Two-Qubit Operations

Ofer Grossman

Thesis in the field of Electrical Engineering and Computer Science: Pseudo-Determinism

Yuzhou Gu

Thesis in the field of Electrical Engineering and Computer Science: Channel Comparison Methods and Statistical Problems on Graphs

Webster Jingtao Guan

Thesis in the field of Chemical Engineering: Scalable Subcellular Resolution Mapping of the Human Brain

Rui Guo

(September, 2022)
Thesis in the field of Mechanical Engineering: Chemistry, Transport and Function of Ionic Phases in the Solid Electrolyte Interphase on Lithium Metal Anodes

Abhinav Gupta

(September, 2022)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Scientific Machine Learning for Dynamical Systems: Theory and Applications to Fluid Flow and Ocean Ecosystem Modeling

Samarth Gupta

Thesis in the field of Civil Engineering and Computation submitted to the Department of Civil and Environmental Engineering: Large-Scale Optimization for Robust Multi-Class Prediction and Resource Allocation

Katie Soyoungh Hahm

(February, 2023)
Thesis in the field of Mechanical Engineering: In-Home Gait Health Monitoring Using Machine Learning and Ambient Sensing

Rabab Haider

Thesis in the field of Mechanical Engineering: Physics-Aware Optimization and Data-Driven Methods for Low-Carbon Power Systems

Brady Meikle Hammond

Thesis in the field of Mechanical Engineering: Real-time Autonomy and Maneuvering Simulation of an Unmanned Underwater Vehicle near a Moving Submarine using Actively Sampled Gaussian Process Surrogate Models

Wei qiao Han

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Risk Aware Planning and Probabilistic Prediction for Autonomous Systems under Uncertain Environments

Shivam Handa

(September, 2022)
Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Program Synthesis over Noisy Data

Ashley Jessica Hartwell

Thesis in the field of Mechanical Engineering: Design Optimization of Two-Way Spanning Concrete Systems for Low-Carbon, Context-Informed Construction

Christian Alexander Haughwout

(September, 2022)
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Small Satellite Closed Ecosystems as Enabling Platforms for Low-Cost In-Space Biological Research

R'mani Symon Haulcy

Thesis in the field of Electrical Engineering and Computer Science: AI-Based Speech Assessment of Cognitive Impairment Disorders

He He

(September, 2022)
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Firms in Integrated Urban Models: Agglomeration Economies and the Dynamics of Employment Size Decisions

Catherine Campbell Henry

(February, 2023)
Thesis in the field of Biological Engineering: Toward High-Throughput, Quantitative Platforms to Identify the Targets of Small Molecules

James Russell Hermus

(February, 2023)
Thesis in the field of Mechanical Engineering: A Dynamic Primitives Hypothesis: A Descriptive Model of Human Physical Interaction

Robert Gregory Hinshaw

(September, 2022)
Thesis in the field of Bioastronautics submitted to the Harvard-MIT Program in Health Sciences and Technology: Biological Modeling of the Neural Response to Space Radiation and Its Interaction with Alzheimer's Disease Risk Genes

Rebecca Marilyn Ho

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Driving Emerging Technologies From Concept to Reality: A Case Study of Carbon Nanotubes

Katharina Viktoria Hoebel

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Domain and User-Centered Machine Learning for Medical Image Analysis

Patrick Victor Holec

(September, 2022)
Thesis in the field of Biological Engineering: Scalable Methods for Immune Repertoire Sequencing

Tzu Ming Hsu

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Effective Modeling in Medical Imaging with Constrained Data

Yiqun Hu

(September, 2022)
Thesis in the field of Computational Science and Engineering submitted to the Department of Civil and Environmental Engineering: Learning Mixed Multinomial Logit Models

Xin Huang

(September, 2022)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Diverse Behavior Prediction through Deep Hybrid Models

Yimeng Huang

(February, 2023)
Thesis in the field of Materials Science and Engineering: Polyanionizing Rocksalt Cathodes for Lithium-Ion Batteries

Atalay Mert İleri

(February, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Confidentiality Under Nondeterminism for Storage Systems

Katherine Ilija

(February, 2023)
Thesis in the field of Biological Engineering: RNA-Level Controllers for Programmable Gene Expression in Mammalian Cells

Mohammad Shafaet Islam

(February, 2023)
Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Accelerating the Jacobi Iteration for Solving Linear Systems of Equations Using Theory, Machine Learning, and High Performance Computing

Siddharth Srinivasan Iyer

(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Accelerating the Acquisition and Reconstruction of Spatio-Temporal MRI

Alex T. Jaffe

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: V for Venous Pressure

Asmita Jana

(September, 2022)
Thesis in the field of Materials Science and Engineering: Design of Surface and Bulk Interactions: A Computational Approach to Sustainable Energy

Siddhartha Visveswara Jayanti

(February, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Simple, Fast, Scalable, and Reliable Multiprocessor Algorithms

Zi-Xun Jia

Thesis in the field of Mechanical Engineering: Intra-gastric Mechanical Systems for Dysmotility Diagnosis and Obesity Treatment

Brandon Michael Johnston

Thesis in the field of Chemical Engineering: Development of Dendritic Polymers as a Modular Drug Delivery Platform for Avascular Tissues

Nidhi N. Juthani

(See also M.B.A., Course XV)

Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Extracellular Vesicle Capture and microRNA Detection

Soumya Kannan

Thesis in the field of Biological Engineering: Discovery and Characterization of Diverse Microbial RNA-Guided Systems

Krishan Kant

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Bearingless Motor with Magnet Free Rotor and 6DoF Position Sensor for Extracorporeal Life Support

Neha Kapate

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Engineering Myeloid Cell Phenotype Using Cell Surface-Adhered Microparticles for Therapeutic Applications

Amir Hassan Karamlou

Thesis in the field of Electrical Engineering and Computer Science: Quantum Simulation of Many-Body Systems with Superconducting Qubits

Cody Jacob Karcher

(September, 2022)

Thesis in the field of Aeronautics and Astronautics: An Optimization Centered Approach to Multifidelity Aircraft Design

Colin Clancy Kelsall

(February, 2023)

Thesis in the field of Mechanical Engineering: Design Challenges for Ultra-High-Temperature Energy Storage with Thermophotovoltaics

Eesha Khare

Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Mechanochemical Understanding of Metal-Coordinated Polymers Using Simulation and Experiment

Sameer Khurana

Thesis in the field of Electrical Engineering and Computer Science: Transfer Learning for Spoken Language Processing

Bobak Toussi Kiani

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Horizons of Artificial Intelligence in Quantum Computation

Colin Younghun Kim

Thesis in the field of Biological Engineering: Mechanisms of Enzyme Neofunctionalization in Plant Specialized Metabolism

Dong Ki Kim

(February, 2023)

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Effective Learning in Non-Stationary Multiagent Environments

Hyungseok Kim

Thesis in the field of Mechanical Engineering and Statistics submitted to the Department of Mechanical Engineering: Bioinstrumentation and Statistical Methods for Investigating Host-Microbial Interactions

Jaehwan Kim

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Monolithic Integration of Fluidics, Electronics, and Photonics using CMOS Foundry Processes

Minah Kim

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Design and Analysis of High-Stability THz Molecular Clock System

Samuel Kim

Thesis in the field of Electrical Engineering and Computer Science: Novel Approaches to Discovery and Optimization in Physics: Symbolic Regression, Bayesian Optimization, and Topological Photonics

Miriam Anne Kreher

Thesis in the field of Computational Nuclear Science and Engineering: Modeling Feedback Effects of Transient Nuclear Systems Using Monte Carlo

Arun Krishnadas

Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Optimality of Human Acoustic Perception of Natural Sounds, and Violin Acoustics Elucidated with a Non-Corporeal Musical Instrument Made by Fully Air-Coupled Finite-Element-Modeling of the Titian Stradivarius

Abinash Kumar

(September, 2022)

Thesis in the field of Materials Science and Engineering: Structure-Property Correlations in Compositionally Complex Ferroelectrics

Conner Samuel Kummerlowe

(September, 2022)

Thesis in the field of Computational and Systems Biology: High Throughput Measurement and Perturbation of Tissues and Tissue-Derived Cellular Models

Rebecca A. Kurfess

Thesis in the field of Mechanical Engineering: An Investigation of Polymer Support Structures In Metal Directed Energy Deposition

Ukjin Kwon

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Robust Ratiometric Sensor Design and a Long-Term Memory Genetic Toggle Switch Design Based on Mathematical Analysis

John Robert Lake

(February, 2023)
Thesis in the field of Mechanical Engineering: Physicochemical Interactions at Interfaces: Mass and Charge Transfer at Chemically Reacting Interfaces

Brianna Marie Lax

Thesis in the field of Chemical Engineering: Mechanistic Elucidation and Therapeutic Improvement of Anti-CTLA-4 Therapies

Elise Ledieu-Dherbécourt

(September, 2022)
Thesis in the field of Environmental Biology submitted to the Department of Civil and Environmental Engineering: Lost In Starvation: How the Interplay between Physiology and Ecology Impacts Bacterial Persistence in a Patchy Landscape

Sungkwon Lee

(February, 2023)
Thesis in the field of Mechanical Engineering: A Unified Overlapping Finite Element Formulation

Victor Julio Leon

(February, 2023)
Thesis in the field of Mechanical Engineering: Active Interfaces: From Biointerfaces to Mineralization

Bethany Rose Lettiere

(February, 2023)
Thesis in the field of Mechanical Engineering: Tailoring Mechanical Properties and Porosity in Laser Powder Bed Fusion by Spatial Manipulation of Feedstock Composition

Changhao Li

(February, 2023)
Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Exploring Quantum Geometry and Quantum Sensing with Spin Defects in Diamond

Yifei Li

(September, 2022)
Thesis in the field of Materials Science and Engineering: Developing Transition Metal Dichalcogenide Alloys for Applications to Integrated Photonics

Yunzhu Li

(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Learning Structured World Models From and For Physical Interactions

Muyuan Lin

(September, 2022)
Thesis in the field of Mechanical Engineering: Geometrically and Temporally Consistent Robot Perception

Bai Liu

(February, 2023)
Thesis in the field of Communications and Networks submitted to the Department of Aeronautics and Astronautics: Optimal Control for Uncooperative Networks

Alex Lombardi

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Provable Instantiations of Correlation Intractability and the Fiat-Shamir Heuristic

Seamus Joseph Holt Lombardo

Thesis in the field of Aeronautics and Astronautics: Remote Sensing and Integrated Systems Frameworks for Decision Support in Sustainable Development

Ang-Yu Lu

Thesis in the field of Electrical Engineering and Computer Science: Artificial Intelligence-Aided Synthesis and Characterization of 2D Materials

Kuangye Lu

Thesis in the field of Mechanical Engineering: Advanced Epitaxy on 2D Materials for Bottom-Up Heterointegration with Low-Defects and Membrane Production with High-Throughput

Yuxuan Lu

Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Market-Based and Policy-Based Conditional Demand Forecaster for Airline Revenue Management

Jaclyn R. Lunger

Thesis in the field of Materials Science and Engineering: Atom-by-Atom Designs of Metal Oxide Catalysts for the Oxygen Evolution Reaction

Björn Malte Lütjens

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Machine Learning Emulators for Accessible Climate Projections

Emi Alexandra Lutz

(September, 2022)
Thesis in the field of Biological Engineering: Engineering Intratumoral Cytokine Therapies for Cancer

Michael A. Luu

Thesis in the field of Aeronautics and Astronautics: Iterative Engineering, System Confidence, and In-Space Servicing Assembly & Manufacturing

Joseph Haleem Maalouf

Thesis in the field of Chemical Engineering: Experimental and Computational Electrochemistry to Move toward Plastics Circularity

Jonathan Vincent MacArthur

Thesis in the field of Aeronautics and Astronautics: Solid-State Flow Control for Ion Electro Spray Propulsion

Corina Nicole MacIsaac

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Overcoming Diffusion Limitations in Encapsulated Cell Therapy for Type 1 Diabetes

Saurav Maji

Thesis in the field of Electrical Engineering and Computer Science: Energy-Efficient Security Solutions for Next-Generation Embedded Systems

Aleksandar Aleksandrov Makelov

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Robust Machine Learning: Algorithms and Data

Michael Vincent Martello

Thesis in the field of Civil and Environmental Engineering: Climate Change Adaptation Planning and Decision Making for Transit Infrastructure

Kelly J. Mathesius

Thesis in the field of Space Propulsion submitted to the Department of Aeronautics and Astronautics: Integrated Design of Solid Rocket Powered Vehicles Including Exhaust Plume Radiant Emission

Caroline Taylor McCue

Thesis in the field of Mechanical Engineering: Controlling Protein and Cell Adhesion Through Interfacial Engineering for More Efficient Biomanufacturing

Elaine D. McVay

(September, 2022)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Visible and Infrared Light Detection Using 2D Materials

Lucas P. Medeiros

(September, 2022)
Thesis in the field of Civil and Environmental Engineering: Understanding and Predicting Responses of Ecological Communities to Perturbations

Keegan Leigh Mendez

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Multifunctional Soft Robotic Devices and Cardiac Benchtop Models for Improved Therapy Delivery and Development

Xianglin Meng

(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: The Modeling Spectrum of Data-Driven Decision Making

Yue Meng

(September, 2022)
Thesis in the field of Civil and Environmental Engineering: Photoporomechanics: A New Technique to Explore Grain-Scale Mechanisms for Fluid-Driven Fractures in Granular Media

Isaac Chartrand Meyer

(February, 2023)
Thesis in the field of Nuclear Science and Engineering: Flux-Independent Uncertainty Propagation of Nuclear Cross Section Data Using the Windowed Multipole Formalism

Lu Mi

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards a Fast Automatic Connectomics Pipeline using Deep Learning

Lucio Maria Milanese

Thesis in the field of Theoretical Plasma Physics submitted to the Department of Nuclear Science and Engineering: Turbulent Dynamics Under Two Ideal Invariants: Dynamic Phase Alignment in Plasmas and Nonionized Fluids

Alex Brandon Miller

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: A Blood Exchange Method to Study Circulation Kinetics of Tumor Cells in the Blood

Nathaniel Loren Miller

(September, 2022)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: On Epitope-Paratope Interactions of Emerging to Endemic Viruses

Rishabh Mittal

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: A Continuous-Time Pipelined ADC with Reduced Sensitivity to Clock Jitter

Baichuan Mo

(September, 2022)
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Toward a Resilient Public Transportation System: Effective Monitoring and Control under Service Disruptions

Oscar Ricardo Moll Thoma

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficiently searching for objects within large collections of image and video

Duncan Matthew Morgan

(September, 2022)
Thesis in the field of Chemical Engineering: Integrated, Single-Cell Analysis of Transcriptional Phenotype and Clonotypic Identity

William Steven Moses

Thesis in the field of Electrical Engineering and Computer Science: Compiler Abstractions and Transformations to Reduce Programming Burden

Saleet Mossel

(September, 2022)
Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: On Deniable Computation and Sublinear Graph Algorithms

Theodore Mouratidis

(September, 2022)
Thesis in the field of Aeronautics and Astronautics: Low Temperature Solder Demountable Joints for Non-Insulated, High Temperature Superconducting Fusion Magnets

Saviz Mowlavi

(September, 2022)
Thesis in the field of Mechanical Engineering: Forward and Inverse Problems in Mechanics: from a Single to Thousands of Interacting Bodies

Mohamad Ali Toufic Najia

(February, 2023)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Transposable Elements and the Regulator Logic of Hematopoietic Differentiation

Sooraj Narayan

(February, 2023)

Thesis in the field of Mechanical Engineering: Electro-Chemo-Mechanics of Solids: Application to All-Solid-State Batteries, Polyelectrolyte Gels, and Actuators.

Jennifer Kaczmarek Nash

(February, 2023)

Thesis in the field of Chemical Engineering: Biosensor Application To Directed Enzyme Evolution for Improved Glucaric Acid Production

Maya Nasr

Thesis in the field of Aeronautics and Astronautics: Innovation Challenges in NASA's Planetary Program and a Policy Framework for Sustainable and Equitable Space Resource Utilization

Tatiana Sofia Netterfield

Thesis in the field of Biological Engineering: Combined Computational and Experimental Analysis of the Senescence-Proliferation Cell Decision After DNA Damage

Bertrand J. Neyhouse

Thesis in the field of Chemical Engineering: Rational Design Strategies for Redox Flow Batteries

Jerry Ng

Thesis in the field of Mechanical Engineering: Applications of the Koopman Operator: Novel Methods and Formulations for Lifted Linear Models

Quynh Phuong Ngo

Thesis in the field of Materials Science and Engineering: The Use of Nanomaterials in Emulsions and Their Assembly at the Liquid-Liquid Interface

Tam Ngoc Thanh Nguyen

(February, 2023)

Thesis in the field of Chemical Engineering: Systems Engineering for Viral Vector Manufacturing

Johannes Josef Norheim

(September, 2022)

Thesis in the field of Engineering Systems submitted to the Department of Aeronautics and Astronautics: Mathematical Formulations in Conceptual Design, Analysis, and Optimization

Xuefei Angelina Nou

Thesis in the field of Biological Engineering: Engineered Bacteria to Sense and Record Environmental DNA

Alexander David O'Brien

Thesis in the field of Nuclear Science and Engineering: Development of Materials for Extreme Environment Applications by Laser Powder Bed Fusion

Moses Teddy Ort

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Autonomous Navigation without HD Prior Maps

Crystal Elaine Owens

Thesis in the field of Mechanical Engineering: Extrusion Printing of Carbon Nanotube Inks, from Rheology to Electronics

Sidhant J. Pai

(September, 2022)

Thesis in the field of Atmospheric Chemistry and Composition Modeling submitted to the Department of Civil and Environmental Engineering: Investigating Secondary Atmospheric Aerosols Using Chemically-Speciated Observations and Targeted Model Development

Joseph Robert Palmeri

Thesis in the field of Chemical Engineering: Collagen Anchoring Agonist Antibodies for Cancer Immunotherapy

Sreedath Panat

(February, 2023)

Thesis in the field of Mechanical Engineering: Charged Interfaces and Their Applications in Energy Sustainability

Tao Pang

(February, 2023)

Thesis in the field of Mechanical Engineering: Planning, Sensing, and Control for Contact-Rich Robotic Manipulation with Quasi-Static Contact Models

Jay Biren Patel

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Improving Segmentation Pipelines for Medical Imaging Using Deep Learning

Jatin Jayesh Patil

Thesis in the field of Materials Science and Engineering: Rapidly-Deployable Materials Processing Approaches for Energy Applications and Chemical Separations

Lagnajit Pattanaik

(February, 2023)

Thesis in the field of Chemical Engineering: Towards Automated Reaction Kinetics with Message Passing Neural Networks

Colin Armstrong Pavan

Thesis in the field of Aeronautics and Astronautics: Nanosecond Pulsed Plasmas in Dynamic Combustion Environments

Allen Mark Payne

(February, 2023)

Thesis in the field of Chemical Engineering: Generating Detailed Kinetic Models for Large Pyrolysis Systems

Shourav Suhas Pednekar

Thesis in the field of Mechanical Engineering: High-Resolution Spatio-Temporal Quantification of Fish Predator-Prey Interactions over Ecosystem Scales with Multispectral Underwater Sensing and Optimality of Human Visual Perception with Natural Daylight

Alfonso Alexander Perez

Thesis in the field of Mechanical Engineering: Design of Lightweight Prefabricated Home Foundation Manufactured via Industrial Large-Scale Polymer Additive Manufacturing

Joshua Mark Peters

(September, 2022)
Thesis in the field of Biological Engineering: Mapping and Modeling Macrophages in Tuberculosis

Eveline Postelnicu

(September, 2022)
Thesis in the field of Materials Science and Engineering: Low Temperature Heterogeneous Integration of Germanium on Silicon

Eric Ryan Powers

(February, 2023)
Thesis in the field of Chemical Engineering: Ultrafast Investigations of Exciton Dynamics in 0D and 2D Hybrid Semiconductor Nanomaterials

Mihika Prabhu

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Large-Scale Programmable Silicon Photonics for Quantum and Classical Machine Learning

Prakash Prashanth

(February, 2023)
Thesis in the field of Aerospace, Energy, and the Environment submitted to the Department of Aeronautics and Astronautics: Environmental Impacts of Aviation Propulsion Systems

Francesc Xavier Puig Fernandez

(February, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: VirtualHome: Building Socially Intelligent Agents via Simulation

Yujie Qian

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: From Structured Document To Structured Knowledge

Jack Yanjie Qiu

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: The Generation and Detection of Squeezed Microwave Photons Realized Using Traveling-Wave Parametric Amplifiers

Victor Thanh-Tam Quach

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Language Modeling with Guarantees

Adityanarayanan Radhakrishnan

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Foundations of Machine Learning: Over-Parameterization and Feature Learning

Ameya Rao

(February, 2023)
Thesis in the field of Chemical Engineering: Structure and Dynamics of Associative Polymer Gels

Mitchell Burrows Robinson

(September, 2022)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Interferometric, Acousto-Optic Modulated Diffuse Correlation Spectroscopy @ 1064 nm (AOM-iDCS) Toward Higher Sensitivity, Non-Invasive Measurement of Cerebral Blood Flow

Kristen Alexandra Rodrigues

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: An Alum Particle-Based Platform to Enhance and Investigate Humoral Immune Responses to Immunization

Sergio Andre Rodríguez Aponte

Thesis in the field of Biological Engineering: Streamlining Development of Biologics with K. phaffii, a Yeast Host Platform

Emily Rogers-Bradley

(February, 2023)
Thesis in the field of Mechanical Engineering: Design and Evaluation of a Quasi-Passive Variable Stiffness Ankle-Foot Prosthesis to Improve Biomechanics Across Walking Speeds

Zhumei Rohskopf

Thesis in the field of Mechanical Engineering: Continuous Antibody Titer Assessment of the Biomanufacturing Process Using Nanofluidic Binding Assays

Antoni Rosiñol Vidal

(February, 2023)
Thesis in the field of Aeronautics and Astronautics: 3D Spatial Perception: With Real-Time Dense Metric-Semantic SLAM

John Wesley Ryter

Thesis in the field of Materials Science and Engineering: Mine to Table: Technology and Policy Strategies for Sustainable Mineral Supply Chains in the Low-Carbon Energy Transition

Seungchan Ryu

(February, 2023)
Thesis in the field of Mechanical Engineering: Protonic All-Solid-State Electrochemical Device as an Artificial Synapse for CMOS-Compatible Neuromorphic Computing

Feras Ahmad Saad

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Scalable Structure Learning, Inference, and Analysis with Probabilistic Programs

Taqiyyah Sariyah Safi

(September, 2022)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Tailoring Charge to Spin Conversion in Novel Materials for Efficient Spintronics

Sachit Dinesh Saksena

(September, 2022)
Thesis in the field of Computational and Systems Biology: Machine Guided Biological Discovery and Design

Gabriel Orr Samach

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Tangled Circuits: Characterizing Errors in Experimental Superconducting Quantum Processors

Lindsay M. Sanneman

Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Transparent Value Alignment: Foundations for Human-Centered Explainable AI in Alignment

Mayuran Saravanapavanantham

Thesis in the field of Electrical Engineering and Computer Science: Additive Manufacturing Towards Electronically-Active Surfaces

Cassandra Schaening Burgos

(September, 2022)

Thesis in the field of Computational and Systems Biology: Transcriptome-Wide Pseudouridine Profiling Reveals Modification of Critical E. coli mRNAs

Kushal Seetharam

(September, 2022)

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Quantum Simulation of Many-Body Systems

Joao Seixas De Medeiros

(February, 2023)

Thesis in the field of Ocean Engineering submitted to the Department of Mechanical Engineering: Analytical and Numerical Studies of the Generation and Propagation of Nonlinear Water Waves by a Wavemaker

Yanjie Shao

Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Ultra-Scaled III-V Vertical Tunneling Transistors

Allison Mae Sheen

Thesis in the field of Biological Engineering: Engineering Tumor-Localized Therapies for Cancer - From Antioxidant Enzymes to Cytokines and Radiation Therapy

Sara Ann Sheffels

Thesis in the field of Materials Science and Engineering: Proton Dynamics in Ultrathin Gadolinium Oxide Magneto-Ionic Devices

Jiasi Shen

(September, 2022)

Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Program Inference and Regeneration via Active Learning

Maxwell Aaron Sherman

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: From Genetics to Disease: Algorithms to Decode Somatic Mutations

Jessica Shi

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Bridging Theory and Practice in Parallel Clustering

James Siderius

(February, 2023)

Thesis in the field of Electrical Engineering and Computer Science: Understanding Social Media: Misinformation, Attention, and Digital Advertising

Raspberry Antonia Simpson

(September, 2022)

Thesis in the field of Nuclear Science and Engineering: Investigation of Laser-Driven Particle Acceleration for the Development of Tunable Ion Sources for Applications in High Energy Density Science

Adam Andrzej Śliwiak

Thesis in the field of Computational Science and Engineering: Leveraging the Linear Response Theory in Sensitivity Analysis of Chaotic Dynamical Systems and Turbulent Flows

Alexander J. Sludds

Thesis in the field of Electrical Engineering and Computer Science: Delocalized Photonic Deep Learning on the Internet's Edge

Sydney Leigh Solomon

(February, 2023)

Thesis in the field of Biological Engineering: Development of Tools to Quantitatively Probe Mycobacterium Tuberculosis-Induced Host Phagosomal and Signaling Responses

Chen Song

Thesis in the field of Chemical Engineering: Fabrication of Electrospun Anti-Fouling Membranes for Emulsified Oil-in-Water Separation

Hyuk Joon Song

Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Mechanics of Composite Hydrogels

Hyun Geun Song

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Design and Control of Mechanoneural Interfaces for Neuroprosthetic Limbs

Shashank Srikant

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Computational and Cognitive Models of Understanding Computer Programs

Caspar R. Stinn

Thesis in the field of Materials Science and Engineering: Pyrometallurgical Oxide-Sulfide Anion Exchange for Improved Material Separation and Metal Production

Michael Austin Stolberg

Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Polymer Electrolyte Discovery via Rational Design and High Throughput Methods

Hui Sun

(February, 2023)

Thesis in the field of Structures and Materials submitted to the Department of Civil and Environmental Engineering: Template-Directed Assembly of Silk in Advanced Materials for Food Security

Harini Sonia Suresh

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Context-Grounded Machine Learning

Daniel Hiroshi Suzuki

Thesis in the field of Materials Science and Engineering: Dzyaloshinskii-Moriya Interaction and Local Exchange Variation in Rare-Earth Transition-Metal Ferrimagnets

Bazyli Mikołaj Szymański

(February, 2023)

Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Continuous Pricing Algorithms for Airline RM: Theoretical Properties and Competitive Implications

Anthony Tabet

(February, 2023)

Thesis in the field of Chemical Engineering: Recording and Reprogramming Neuroimmunity in Cancer

Orion Thomas Taylor

Thesis in the field of Mechanical Engineering: Manipulation of Unknown Objects via Contact Configuration Regulation

Kevin Michael Tenny

(See also M.B.A., Course XV)

Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Combining Computation and Experimentation for Accelerated Understanding of Electrode Microstructure in Redox Flow Batteries

Sri Gowtham Thakku Venkateswaran

(September, 2022)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Modular CRISPR-Diagnostics for Infectious Diseases

Huanhuan Tian

(February, 2023)

Thesis in the field of Chemical Engineering: Nonlinear Ion Transport at High Electric Currents in Shock Electrodialysis and Ion-Intercalation Memories

Yonglong Tian

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards General-Purpose Vision via Multiview Contrastive Learning

Jesús Tordesillas Torres

(September, 2022)

Thesis in the field of Controls submitted to the Department of Aeronautics and Astronautics: Trajectory Planning for Flights in Multiagent and Dynamic Environments

Tyler Daniel Toth

(September, 2022)

Thesis in the field of Biological Engineering: Engineering Plant-Microbe Communication

Amelia Jo Trainer

Thesis in the field of Nuclear Science and Engineering: Hydrogen Distribution in Metal Hydrides and its Effect on Reactor Physics Calculations

Geoffrey Vaartstra

Thesis in the field of Mechanical Engineering: Kinetics of Heat and Mass Transfer Near the Liquid-Vapor Interface

Kapil Eknath Vaidya

(February, 2023)

Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Instance-Optimized Data Structures for Membership Queries

Jessica Raquelle Van Brummelen

(September, 2022)

Thesis in the field of Electrical Engineering and Computer Science: Empowering K-12 Students to Understand and Design Conversational Agents: Concepts, Recommendations, and Development Platforms

Connor Anthony Verheyen

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Data-Driven Approaches for Complex Systems: Leveraging Machine Learning, Materials Science, and Manufacturing for New Biomedical Technologies

Laurens Jozef Amandine Voet

(February, 2023)

Thesis in the field of Aeronautics and Astronautics: A Quantitative Assessment of Advanced Take-Off Trajectories for Supersonic Transport Noise Reduction

Nikhil Vyas

(February, 2023)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Satisfiability Algorithms and Connections between Algorithms and Circuit Lower Bounds

Charles Tai-Chieh Wan

(February, 2023)

Thesis in the field of Chemical Engineering: Designer Porous Carbon Electrodes for Redox Flow Batteries

Andrew J. Wang

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Risk-Bounded Dynamic Scheduling of Temporal Plans

Guoqing Wang

Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Quantum Sensing and Simulation with Solid-State Defects

Kevin K. Wang

(February, 2023)

Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Airline Dynamic Offer Creation Using a Markov Chain Choice Model

Li-Wen Wang

(February, 2023)

Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Macrophage-Hitchhiking Anisotropic Microparticles for Therapeutic and Diagnostic Applications

Shaoxiong Wang

(September, 2022)

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Interactive Touch for Manipulation

Wujie Wang

(September, 2022)

Thesis in the field of Materials Science and Engineering: Differentiable Multiscale Molecular Simulations

Yiqiu Wang

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Fast Parallel Algorithms and Library for Spatial Clustering and Computational Geometry

Zhiyi Wang

(September, 2022)
Thesis in the field of Aeronautics and Astronautics: Computational Modeling of Elastic and Transformation Incompatibility at Grain Boundaries in Shape Memory Materials

Ella Louise Wassweiler

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Vapor Transport Deposition for Perovskite Solar Cells

Thejas Satish Wesley

Thesis in the field of Chemical Engineering: The Electrochemical Nature of Non-Faradaic Catalysis at Interfaces

Charles Michael Wheeler

Thesis in the field of Mechanical Engineering: Inertial Hysteresis Couplings

Robert Michael Wilson

(September, 2022)
Thesis in the field of Biological Engineering: High Throughput Screening for Small Molecule Interactions with Nucleic Acid Binding Proteins

Ralph Wiser

(February, 2023)
Thesis in the field of Nuclear Science and Engineering: A First Complete Approach to Address Model Error in Computational Turbulent Heat Transfer

Alexander Po-Yen Wu

Thesis in the field of Computational and Systems Biology: Towards Causality in Gene Regulatory Network Inference

Chloe Michelle Wu

Thesis in the field of Biological Engineering: Examining How Mucins and Their Associated O-Glycans Shape Oral Microbial Communities

Yannan Wu

Thesis in the field of Electrical Engineering and Computer Science: Systematic Modeling and Design of Sparse Deep Neural Network Accelerators

Spencer Thomas Wyant

(February, 2023)
Thesis in the field of Materials Science and Engineering: Modeling Interfacial Thermal Transport with Molecular Dynamics: The Challenge of Making Accurate Comparisons to Experiment

Yu Xia

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards a Cryptographically Verifiable Database Management System

Kai Yuanqing Xiao

(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Probing, Improving, and Verifying Machine Learning Model Robustness

Haowei Xu

(February, 2023)
Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Optical Control over Nuclear Spins

Jie Xu

(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Computational Design of Shape and Control for Rigid Robots

Junshen Xu

Thesis in the field of Electrical Engineering and Computer Science: A Robust and Efficient Framework for Slice-to-Volume Reconstruction: Application to Fetal MRI

Lei Xu

(February, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Deployable Robust Text Classifiers

Qian Xu

(February, 2023)
Thesis in the field of Mechanical Engineering: Thermoelectric Energy Conversion: First-Principles Simulations, Energy Harvesting, and Deep Cooling Systems

Mantian Xue

(February, 2023)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Graphene-Based Biochemical Sensing Array: Materials, System Designs and Data Processing

Adam Uri Yaari

(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Untangling the Complexity of Nature: Machine-Learning for Accelerated Life-Sciences

Heng Yang

(September, 2022)
Thesis in the field of Mechanical Engineering: Certifiable Outlier-Robust Geometric Perception

Jingfan Yang

(February, 2023)
Thesis in the field of Chemical Engineering: Experiments and Simulations of Autonomous Microscale Robotics

Karren Dai Yang

(September, 2022)
Thesis in the field of Biological Engineering: Machine Learning Approaches for Data Integration and Translation in Single-Cell Biology

Yichen Yang

Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Player Capability and Locally Sub-Optimal Behavior in Strategic Games

Wenjia Yao

(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Inverse Design of Random Emitters in Nanophotonics

Chia-Chen Yu
(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Conformable Ultrasound Face Patch for Cavitation-Enhanced Transdermal Cosmeceutical Delivery

Suhyoun Yu
(September, 2022)
Thesis in the field of Mechanical Engineering: Study of Human Behavioral Models for Engineering Applications

Tiancheng Yu
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Near-Optimal Learning in Sequential Games

Chenyang Yuan
(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Polynomial Structure in Semidefinite Relaxations and Non-Convex Formulations

Mengyang Yuan
(September, 2022)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: GaN Electronics for High Temperature Applications

Joy Shuang Zeng
Thesis in the field of Chemical Engineering: Traversing Catalytic Contexts for Interrogation and Design of Carbon Conversion Electrocatalysts

Ge Zhang
(February, 2023)
Thesis in the field of Chemical Engineering: Power Sources for Sensors and Robots in Remote and Inaccessible Environments

Guo Zhang
(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Passive Health Monitoring with Radio Waves - In Body and In Home

Haoquan Zhang
(September, 2022)
Thesis in the field of Electrical Engineering and Computer Science: Techniques for Efficient Wide-Range Radio-Frequency Power Generation System

Lenan Zhang
(September, 2022)
Thesis in the field of Mechanical Engineering: Understanding Heat Transport at Interfaces for Thermal Management of Electronics

Paul Zhang
Thesis in the field of Electrical Engineering and Computer Science: Surpassing Local Optimality in Geometry Processing

Pengxiang Zhang
(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Current-Induced Dynamics of Easy-Plane Antiferromagnets

Qihang Zhang
(February, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Learning-Based Correlation Analysis Between Laser Speckle and Surface Size Distribution

Qing Zhang
(September, 2022)
Thesis in the field of Mechanical Engineering: Instabilities and Flow-Induced Structures in Anisotropic Systems

Qiong Zhang
(February, 2023)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Model Development Based on Discrete Particle Simulations of Partially-and Fully-Saturated Granular Media

Shun Zhang
(September, 2022)
Thesis in the field of Computational Science and Engineering: Three-Dimensional Integral Boundary Layer Method for Viscous Aerodynamic Analysis

Yirui Zhang
(February, 2023)
Thesis in the field of Mechanical Engineering: Revealing Interfacial Reactions and Charge Transfer Kinetics in Electrochemical Energy Storage and Conversion

Zhengxing Zhang
Thesis in the field of Electrical Engineering and Computer Science: Adjoint Methods and Inverse Modeling for Process Variation Analysis in Silicon Photonics

Zhoutong Zhang
(September, 2022)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Pursuing Mid-Level Perception from Casual Videos

Yajing Zhao
(September, 2022)
Thesis in the field of Mechanical Engineering: Scalable Micro/Nanostructured Surfaces for Thin-Film Condensation Heat Transfer Enhancement in Steam Power Plants

Muni Zhou
(September, 2022)
Thesis in the field of Applied Plasma Physics submitted to the Department of Nuclear Science and Engineering: Genesis, Dynamics, and Dissipation of Turbulent Magnetic Fields

Yilun Zhou
(February, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Techniques for Interpretability and Transparency of Black-Box Models

Hejian Zhu
Thesis in the field of Geotechnical and Geoenvironmental Engineering submitted to the Department of Civil and Environmental Engineering: Multiscale Modelling of the Mechanical Behavior of Clay

Yuntong Zhu
Thesis in the field of Materials Science and Engineering: High Entropy Amorphous and Crystalline Li-Garnet Films for Lithionic Applications

Tomer Zohar
(September, 2022)
Thesis in the field of Biological
Engineering: Methods, Models, and
Machine Learning Approaches for
Understanding Pathogen-Specific
Humoral Immunity

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES, DOCTORAL

Doctor of Philosophy

School of Humanities, Arts, and Social Sciences

Daniel Joseph Aronoff

(September, 2022)

Thesis in the field of Economics: Essays on Incentive Designs to Improve Market Performance

Allison Kaitlin Balin

(September, 2022)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: A Defense of Impermissivism

Christopher James Baron

(September, 2022)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: The Logic of Subtractives or, Barely Anyone Tried Almost as Hard as Me

Paige Holbrook Bollen

Thesis in the field of Political Science: Context, Contact, and Intergroup Relations in Sub-Saharan Africa

Tatiana Igorevna Bondarenko

(September, 2022)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Anatomy of an Attitude

Oguzhan Celebi

Thesis in the field of Economics: Essays in Economic Theory

Yong Chen

(September, 2022)

Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Asymmetries in Presupposition Projection: Processing and Acquisition

Yizhuang Alden Cheng

Thesis in the field of Economics: Essays in Health Economics and Applied Econometrics

Jonathan Palm Cohen

Thesis in the field of Economics: Essays on Unemployment

Joel Peter Flynn

Thesis in the field of Economics: Essays in Behavioral Macroeconomics and Mechanism Design

Ying Gao

(September, 2022)

Thesis in the field of Political Science: Essays on the Political Behavior of Economic Informality and Public Goods

Lyndal Jennifer Grant

(February, 2023)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Wanting to Do What's Right

Adam Harris

Thesis in the field of Economics: Essays in Industrial Organization

Lauren Kapsalakis

(September, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: The Loss of Integration Vs. Unity in Diversity: American Anthropology in the 1970s and 1980s and the Founding of the Society for Cultural Anthropology

Rijul Kochhar

(September, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Antibiotic Resistance, Planetary Crisis, and Bacteriophage Futures in the 21st Century

Giacomo Lanzani

Thesis in the field of Economics: Essays in Economic Theory

Crystal Lee

(September, 2022)

Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Sensory Encounters in the Age of Computation

Andre Medeiros Sztutman

Thesis in the field of Economics: Essays on Public Finance and Information Economics

Aidan James Milliff

(September, 2022)

Thesis in the field of Political Science: Seeking Safety: The Cognitive Foundations of Civilian Behavior during Violence

Gabriel Charlie John Magnus Nahmias

(September, 2022)

Thesis in the field of Political Science: Soft Skills and Hard Work: The Role of Relational Labor in the Supply of Political Organizing

Thi Mai Anh Nguyen

Thesis in the field of Economics: Essays on Long-Term Relationships and Networks

Lukas Wolters Osman Freiheit

(September, 2022)

Thesis in the field of Political Science: Essays on the Political Economy of Inequality, Wealth, and Money

Abigail Jean Hoening Ostriker

Thesis in the field of Economics: Essays on the Economics of Environmental and Health Risk

Indira Puri

(See also S.M., Course XIV)

Thesis in the field of Economics: Simplicity and Choice

Ryan Ravanpak

(September, 2022)

Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Biological Life and the Partiality Relation

Blair Michelle Read

(September, 2022)
Thesis in the field of Political Science:
When Voice Leads to Exit: \ \ Democracy,
Development, and Private Provision

Haley Schilling

(September, 2022)
Thesis in the field of Philosophy
submitted to the Department of
Linguistics and Philosophy: Practical
Epistemology: Essays on What to Think
and What to Do

Garima Sharma

Thesis in the field of Economics: Essays
in Development and Labor Economics

Joseph N. Shayani

(September, 2022)
Thesis in the field of Economics: Essays
on Interviews and Matching

Emilia Simison

(September, 2022)
Thesis in the field of Political Science:
Resetting Public Policy? Democracies,
Dictatorships, and Policy Change

Rahul Singh

Thesis in the field of Economics and
Statistics: Essays on Econometrics, Causal
Inference, and Machine Learning

Elena Sobrino

Thesis in the field of History,
Anthropology, and Science, Technology,
and Society submitted to the Program
in Science, Technology, and Society:
Living with Crisis: Family, Labor, and
Environment in Flint, Michigan

Michelle Spektor

(February, 2023)
Thesis in the field of History,
Anthropology, and Science, Technology,
and Society submitted to the Program in
Science, Technology, and Society: From
Documents to Data: The Emergence of
National Biometric Identification Systems
in the 20th and 21st Centuries

Frank Joseph Staniszewski

(September, 2022)
Thesis in the field of Linguistics
submitted to the Department of
Linguistics and Philosophy: Modality
and Time in Logical Context

John Anton Sturm

Thesis in the field of Economics: Essays
on Economic Policy Design

Meicen Sun

(September, 2022)
Thesis in the field of Political Science:
The Double-Edged Effect of Information
Control and How It Consolidates
Autocratic Rule in the Digital Age

Diana Sverdlin Lisker

Thesis in the field of Economics: Essays
on Development Economics

John Tylko

(February, 2023)
Thesis in the field of History,
Anthropology, and Science, Technology,
and Society submitted to the Program
in Science, Technology, and Society:
Simulating Apollo: Flight Simulation
Technology 1945-1975

Martina Uccioli

Thesis in the field of Economics: Essays
in Labor Economics

Suhas Vijaykumar

Thesis in the field of Economics and
Statistics: Statistical Learning and
Uncertainty Quantification

Mallory Webber

(September, 2022)
Thesis in the field of Philosophy
submitted to the Department of
Linguistics and Philosophy: Moderate
Modal Metaphysics

Danfeng Wu

(September, 2022)
Thesis in the field of Linguistics
submitted to the Department of
Linguistics and Philosophy: Syntax and
Prosody of Coordination

Xinhe Wu

(September, 2022)
Thesis in the field of Philosophy
submitted to the Department of
Linguistics and Philosophy: Boolean-
Valued Models and Their Applications

Margaret Bess Yellen

Thesis in the field of Economics: Essays
in Industrial Organization and Labor
Economics

SLOAN SCHOOL OF MANAGEMENT, DOCTORAL

Doctor of Philosophy

Sloan School of Management

Jackie Wonjae Baek

(September, 2022)

Thesis in the field of Operations
Research: Decision-Making Under
Uncertainty: From Theory to Practice

Léonard David Jean Boussioux

Thesis in the field of Operations
Research: Multimodality: Models,
Algorithms, and Applications

Yiqun Cao

(September, 2022)

Thesis in the field of Management:
Understanding Video Ads on Social
Media Platforms

Wenyu Chen

Thesis in the field of Operations
Research: Optimization Methods for
Machine Learning under Structural
Constraints

Allison Taylor Cole

Thesis in the field of Management: Essays
in Financial Economics

Vasileios Digalakis

Thesis in the field of Operations
Research: Analytics under Variability,
Volume, and Velocity with Applications
to Sustainability and Healthcare

Patricio Tomas Foncea Araneda

(September, 2022)

Thesis in the field of Operations
Research: Learning and Optimization in
Modern Retail

Emma Lauren Gibson

(September, 2022)

Thesis in the field of Operations
Research: Optimizing Healthcare
Delivery in Resource-Limited Settings

Samuel Paul Gilmour

Thesis in the field of Operations
Research: Allocating Scarce Resources:
Modeling and Optimization

Xiaoyue Gong

Thesis in the field of Operations
Research: Data-Driven Decision Making
in Operations Management

Wesley Hatch Greenblatt

Thesis in the field of Management: Essays
on Biomedical Innovation

Marat Ibragimov

Thesis in the field of Management:
Product Returns Management in Online
Retail

Jonathan E. Jensen

Thesis in the field of Management: Essays
in Municipal Finance

Maziar Mahdavi Kazemi

(September, 2022)

Thesis in the field of Management: Three
Essays in Financial Economics

Soomi Kim

Thesis in the field of Management: Essays
on the Production of Ideas

Alexander Marion Kowalski

(September, 2022)

Thesis in the field of Management:
Terrible Timing: The Causes and
Consequences of Problematic Work
Schedules

Jason Cheuk Nam Liang

Thesis in the field of Operations
Research: Automated Data-driven
Algorithm and Mechanism Design in
Online Advertising Markets

Emily Meigs

(September, 2022)

Thesis in the field of Operations
Research: Information and Incentives in
Online Platforms

Liangyuan Na

Thesis in the field of Operations
Research: Optimal Decision Making
for Healthcare Operations: Models and
Implementation

James Edward Paine

Thesis in the field of Management: Essays
on Dynamic Supply Chains and Service
Delivery Systems

Ioannis Spantidakis

(September, 2022)

Thesis in the field of Operations
Research: Constrained Inventory
Optimization on Complex Warehouse
Networks

Fransisca Susan

Thesis in the field of Operations
Research: Combinatorial Learning for
Online Marketplaces

Hagay Constantin Volvovsky

Thesis in the field of Management:
Collaborating at the Tower of Babel:
The Meaning of Cooperation and the
Foundations of Long-Term Exchange

Joshua Todd Wilde

(February, 2023)

Thesis in the field of Operations
Research: Analytics-Enabled Quality and
Safety Management Methods for High-
Stakes Manufacturing Applications

Rachel Seou Yoon

Thesis in the field of Management:
Do Mandated Risk Disclosures Affect
Corporate Risk-Taking?

Jiaheng Yu

Thesis in the field of Management: Essays
on Corporate Finance and Financial
Markets

Yunhao Zhang

Thesis in the field of Management:
Essays on Mechanisms Underlying Belief
Updating with Applications in Wisdom
of Crowds

Renbo Zhao

Thesis in the field of Operations
Research: New Theory and Algorithms
for Convex Optimization with Non-
Standard Structures

Andrew Terence Zheng

Thesis in the field of Operations
Research: Experimentation and Control
in Online Platforms

SCHOOL OF SCIENCE, DOCTORAL

Doctor of Philosophy

School of Science

Sameer Abraham

(September, 2022)

Thesis in the field of Physics: Patterns and Processes Driving Chromosome Organization

Nile S. Abularrage

(February, 2023)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Bioorthogonal Reagents: Design, Synthesis, and Reactivity

Saleh M. Al Nasser

(February, 2023)

Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Non-Uniqueness in Fluid-Flow Modeling

Samuel Jonathan Allon

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Consequences and Limits of Cell-Cell Communication in Airway Immune Responses

Moses Jeremy Amdur

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Chemical Control of the Spin-Phonon Interaction to Develop a New Generation of Molecular Quantum Bits

Ranjan Anantharaman

(February, 2023)

Thesis in the field of Mathematics: Approximation of Large Stiff Acausal Models

Alyssa Joan Anderson

Thesis in the field of Biochemistry submitted to the Department of Biology: Insights into the Substrate Specificities, Interactions and Regulatory Mechanisms of Bacterial Glycoconjugate Biosynthesis Enzymes

Yan Sheng Ang

Thesis in the field of Mathematics: Dynamical Statistics for Power Series and Polynomials with Restricted Coefficients

Eric Ricardo Anschuetz

Thesis in the field of Physics: The Trainability and Expressivity of Quantum Machine Learning Models

Juncal Arbelaiz Mugica

(September, 2022)

Thesis in the field of Mathematics: Optimal Distributed Control and Estimation for Systems with Spatiotemporal Dynamics

Constantin Wicaksono Arnscheidt

Thesis in the field of Earth Atmospheric, and Planetary Sciences submitted to the Department of Earth Atmospheric, and Planetary Sciences: Four Problems in Nonlinear Earth System Dynamics

Jenna Lauren Aronson

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Developing Tools to Physically Magnify Biological Substrates for Clinical Applications

Edward Daisuke Badding

Thesis in the field of Chemistry submitted to the Department of Chemistry: Site-Selective Labeling of the Nitrogenase Iron-Molybdenum Cofactor

Pierre Barral

Thesis in the field of Physics: Elastic and Inelastic Dipolar Scattering

Patrick Beaudry

(September, 2022)

Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Experimental, Geochemical, and Isotopic Insights on Melting and Degassing Behavior on Earth

David Anthony Berardo

Thesis in the field of Physics: Exoplanetary Systems in Technicolor

Aaron Joshua Berger

Thesis in the field of Mathematics: Applications of the Regularity Method in Combinatorics

Hannah Michelle Bernstein

Thesis in the field of Biochemistry submitted to the Department of Biology: Biochemical Characterization of Glycan Assembly Pathway Enzymes

Andrea Sylvia Biscoveanu

Thesis in the field of Physics: From Black Holes to the Big Bang: Astrophysics and Cosmology with Gravitational-Waves and Their Electromagnetic Counterparts

Ekaterina Bolotskaya

(February, 2023)

Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Effects of Fault Failure Parameterization and Bulk Rheology on Earthquake Rupture

Sonia Anne Boor

(September, 2022)

Thesis in the field of Biology: Genetic Analysis of Behavioral Plasticity in Response to Changing Food Environments in *Caenorhabditis Elegans*

Kaley Virginia Brauer

Thesis in the field of Physics: Formation History of the Milky Way and the Origins of Heavy Elements

Elizabeth Ann Brija

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Alternative Splicing and RNA Editing of the Complexin C-terminus Regulates Neurotransmitter Release in *Drosophila*

Alexandra Carol Brown

Thesis in the field of Chemistry submitted to the Department of Chemistry: Coordination Chemistry of Fe-S Clusters Supported by N-Heterocyclic Carbenes

Douglas Raymond Brown

(September, 2022)

Thesis in the field of Biology: MFSD7C is an ATP Transporter that Supports Bacterial Killing by Alveolar Macrophages in a Lipid-Rich Microenvironment

Lindsey Orgren Calabretta

(September, 2022)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Guanidinium Compounds: Synthesis, Oxoanion Binding, and Cellular Delivery

Alex Joseph Callahan

Thesis in the field of Chemistry submitted to the Department of Chemistry: Automated Flow Synthesis of Biomacromolecules

Jaclyn Marie Camuglia

(September, 2022)
Thesis in the field of Biology: Morphogenetic Forces Planar Polarize LGN/Pins in the Embryonic Head during Drosophila Gastrulation

Michael Alan Cantara

(February, 2023)
Thesis in the field of Physics: Dipolar Shielding and Sub-Wavelength Bilayers in a Quantum Gas of Dysprosium

Alex Wai Chan

Thesis in the field of Biology: Analysis of CDPK1 Targets Identifies a Trafficking Adaptor Complex That Regulates Microneme Exocytosis in Toxoplasma

Tianyang Chen

Thesis in the field of Chemistry submitted to the Department of Chemistry: Structure- and Composition-Performance Relationships of Electrically Conductive Metal-Organic Frameworks, Conjugated Porous Organic Polymers, and Fused Aromatics

Sinho Chewi

Thesis in the field of Mathematics and Statistics submitted to the Department of Mathematics: An Optimization Perspective on Log-Concave Sampling and Beyond

Junyi Chu

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Goals, Play, and Cognitive Pragmatism

Steven Michael Colvin

(February, 2023)
Thesis in the field of Biology: Models of Autism Spectrum Disorder: Fragile X Syndrome and Rett Syndrome

Valentin Didier Marie Claude Crépel

(September, 2022)
Thesis in the field of Physics: Three-Particle Mechanism for Unconventional Superconductivity, Theory and Potential Applications

Karen Guadalupe Cruz

(February, 2023)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Prefrontal-Collicular Interactions in Visually Guided Behavior

Madeline Cusimano

(September, 2022)
Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Listening with Generative Models

Léo Delage-Laurin

Thesis in the field of Chemistry submitted to the Department of Chemistry: Investigation of Electronic Molecular Materials with Magneto-Optical and Magnetic Properties

Alejandro Diaz

(February, 2023)
Thesis in the field of Physics: Through Iron & Ice: Searching for Sterile Neutrinos at the IceCube Neutrino Observatory

Diomedes Dieppa-Matos

(September, 2022)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Reactive Peptides for Site-Selective Cysteine and Lysine Bioconjugation

Leon Ding

Thesis in the field of Physics: Novel Gates with Superconducting Fluxonium Qubits

Zhiyu Dong

Thesis in the field of Physics: Chiral Stoner Magnetism in Dirac Bands

Chenru Duan

(September, 2022)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Quantum Chemistry Meets Machine Learning: Autonomous Computational Workflow for Chemical Discovery

Aarti Dwivedi

(September, 2022)
Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Slow Slip Events in Cascadia

Zackery Ely

(February, 2023)
Thesis in the field of Computational and Systems Biology submitted to the Department of Biology: A Broadened HLA Ligandome Uncovers New Immunotherapy Targets for Pancreatic Cancer and a Prime Editor Mouse to Model a Broad Spectrum of Somatic Mutations

Zahra Essack

Thesis in the field of Planetary Sciences submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Detection and Characterization of Hot Super-Earth Exoplanets

Nathan Hikaru Faialaga

(February, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Tandem Benzannulation-Cyclization Strategies for the Synthesis of Highly Substituted Indoles

Jenelle Jo Feather

(February, 2023)
Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Evaluating Machine Learning Models of Sensory Systems

Olivia Christine Fiebig

(September, 2022)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Understanding Ultrafast Energy Transfer across the Photosynthetic Membrane of Purple Bacteria with Near-Native Systems

Andrew Frederick Franci

(September, 2022)
Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Insights Into Ecological Sounds Localization via Machine Learning Based Models

John Randolph Frank

Thesis in the field of Physics: Ordering of Curving Interfaces

Yuqiu Fu

Thesis in the field of Mathematics: Fourier Decoupling for Convex Sequences

Zhenghao Fu

(September, 2022)

Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: First Step into A New Physics Realm: Search for the Majorana Nature of Neutrinos in the Inverted Mass Ordering Region

Shengwen Gan

Thesis in the field of Mathematics: The Restricted Projection Problems

Paritosh Gangaramani

(September, 2022)

Thesis in the field of Biology: The Roles of the Mcm2-7 Tails in Replication Initiation

Francisco J. Garcia

Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Molecular Profiling and Mechanisms of Cerebrovascular Function in Health and Neurodegeneration

Jonathan Raymond Gauthier

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Multi-Level Modeling of Language Processing in the Mind and Brain

Raphaël Vincent Gayet

(September, 2022)

Thesis in the field of Microbiology submitted to the Department of Biology: Developing Nucleic Acid-Based Sensors and Actuators

Natalie Clair Golota

Thesis in the field of Chemistry submitted to the Department of Chemistry: Advances in Sensitivity and Resolution of Solid State Nuclear Magnetic Resonance and Dynamic Nuclear Polarization

Christian Gomez

Thesis in the field of Chemistry submitted to the Department of Chemistry: Studies Directed Toward the Synthesis of Streptonigrin

Kevin Robert Gozzi

(September, 2022)

Thesis in the field of Biology: Gene Transfer Agents Promote Survival and DNA Repair during Stationary Phase for *Caulobacter crescentus*

Anthony Valenti Grebe

(September, 2022)

Thesis in the field of Physics: Probing the Frontiers of the Standard Model with Lattice QCD

Simon Benedikt Grosse-Holz

Thesis in the field of Physics: Dynamics of Genome Organization

Chantal Katrin Guegler

(February, 2023)

Thesis in the field of Molecular Biology submitted to the Department of Biology: The Role of a Toxin-Antitoxin System in the Arms Race between Bacteria and Phage

Feng Gui

Thesis in the field of Mathematics: Liouville Properties and Dimensionality Bounds for Harmonic and Caloric Functions

Ellen Jane Guss

Thesis in the field of Biology: The Heparan Sulfate Proteoglycan Perlecan Regulates Axonal and Synaptic Stability

Minyong Han

(September, 2022)

Thesis in the field of Physics: Engineering Topology and Correlation in Epitaxial Thin Film Kagome Metals

Woonghee Han

(February, 2023)

Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Studies of Edge Fluctuations of Negative Triangularity Plasma on TCV Using a New Gas Puff Imaging Diagnostic

Michael Trier Liu Happ

Thesis in the field of Computational Neuroscience submitted to the Department of Brain and Cognitive Sciences: Predictive Novelty Detection in Songbird Auditory Cortex

Stephanie M. Hart

(September, 2022)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Exciton Dynamics in DNA-Chromophore Assemblies

Thomas Richard Hartke

(September, 2022)

Thesis in the field of Physics: Fermion Pairing and Correlations Under a Quantum Gas Microscope

Qilin He

(February, 2023)

Thesis in the field of Chemistry submitted to the Department of Chemistry: Ring-Opening Metathesis Polymerization for the Creation of Responsive Colloids and Surfaces

Matthias Hofer

(February, 2023)

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: The Cultural Emergence of Combinatorial Structure

Sean Dae Houlihan

(September, 2022)

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: A Computational Framework for Emotion Understanding

William Crossan Howland III

Thesis in the field of Chemistry submitted to the Department of Chemistry: Diagnosing Band-Mediated Electrochemical Half-Reaction Mechanisms and Identifying the Unique Features Thereof

Jennifer Hu

Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Neural Language Models and Human Linguistic Knowledge

Miao Hu

(September, 2022)

Thesis in the field of Physics: Precision Measurements of the Vector Boson Scattering Production and Searches for Charged Higgs Bosons at the Large Hadron Collider

Sofia Hu

(September, 2022)
Thesis in the field of Biology:
Transcription Factor Antagonism
Regulates Heterogeneity in Embryonic
Stem Cell States

Jingcheng Huang

(September, 2022)
Thesis in the field of Chemistry submitted
to the Department of Chemistry:
Planetary Science Meets Chemistry:
Studying Potential Biosignature Gases in
Terrestrial Exoplanet Atmospheres

Yiwen Huang

(February, 2023)
Thesis in the field of Physics, Statistics,
and Data Science submitted to the
Department of Physics: Systematic
and Statistical Uncertainties in the
Characterization of Gravitational-Wave
Sources

Keith Edward Laurence Husted

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Thesis in the field of Chemistry
submitted to the Department of
Chemistry: Design and Synthesis of
Polymer Networks and Branched
Polymers for Triggered Deconstruction
and Self-Assembly

Anna Ivanova

(September, 2022)
Thesis in the field of Cognitive Science
submitted to the Department of Brain
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Nima Jaberi-Lashkari

Thesis in the field of Biology: Low
Complexity Regions in Biological Matter:
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Onyu Jung

(September, 2022)
Thesis in the field of Chemistry
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Nicholas William Kamp

Thesis in the field of Physics:
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Investigations of the MiniBooNE
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Alexander Elliot Kissinger Kaplan

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Meghann Rebecca Kasal

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Changhae Andrew Kim

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Chemistry: I. Kinetic Modeling of Surface
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Jungsoo Kim

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Younhun Kim

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James Levi Knippel

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Sergei Korotkikh

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Hyunseok Lee

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Michael Jinsuk Lee

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Sangbaek Lee

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Sheena L. S. Vasquez

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Maria Zagorulya

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Junbo Zhu

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Doctor of Philosophy

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Cynthia Carroll Becker

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Tong Bo

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Rebecca Jane Chmiel

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Fiona Clerc

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Emmanuel Avila Codillo

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Beckett Casper Colson

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Kevin Joseph Doherty

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Lauren Nichole Dykman

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Genevieve Elaine Flaspohler

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Adrian Mikhail Palaci Garcia

(September, 2022)

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Kalina Cozette Grabb

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Benjamin Nash Granzow

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Andrew Joseph Hirzel

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Victoria Lynn Preston

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MILITARY COMMISSIONS

United States Air Force

Second Lieutenant
Catherine Johnson
Matthew McGillick
John Pendergrast
Kaira Samuel
Jupneet Singh
Olivia Tobin
Brendan Vaughan

United States Army

Second Lieutenant
Aden Rothmeyer
Eric Wooten

United States Marine Corps

Second Lieutenant
Andrew Cummings

United States Navy

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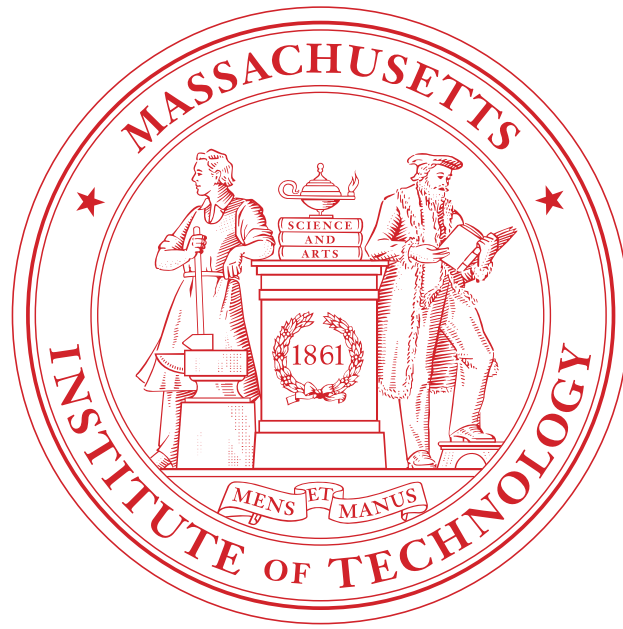
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