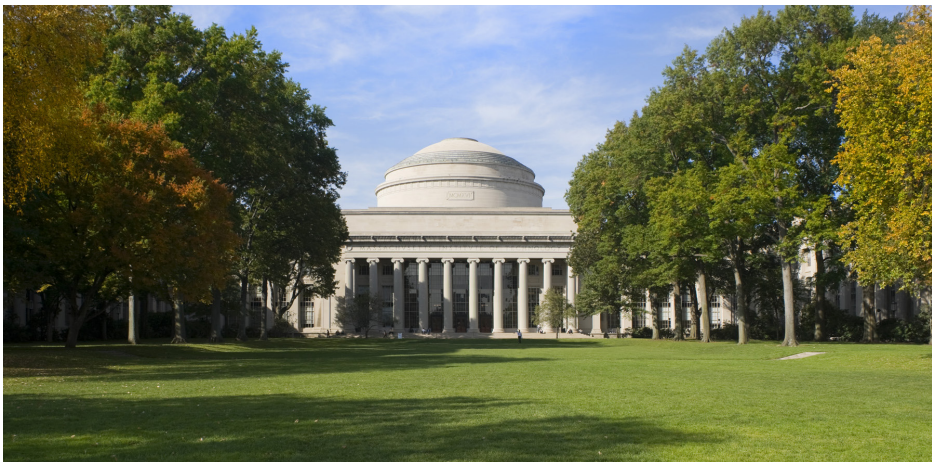
MIT
COMMENCEMENT
2023

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

Photos
Above: Christopher Harting
Cover: Gretchen Ertl
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Audrey Gatta
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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 Bensche
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 Tauckus

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 Damptey
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. Pertsemlidis

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. VanLonkhuyzen

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. Koetters
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 Jarczynski
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

Vinícius 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 Beleznay
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

Raphaela 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

Shaunticlair 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 Upredictable

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**īd Lab**īd (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 Déjà 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

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

Zhujing 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

Nicholette 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 Catalyzer 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

Yingu 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 Demirchelie
(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 (wtih 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
(See also S.M., Course VI)
Unlocking the Potential of Hydrogen in Intermittent Electricity Systems: A Global Assessment of Levelized Cost of Hydrogen and Low Carbon Industrial Hub Profitabilty

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 of a Net-Zero Energy System in the Continental US by 2050

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
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(See also S.M., Course VI)
Improving Predictability of Wind Power Generation

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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

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

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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

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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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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

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Improving Throughput in an Aluminum Rolling Mill Using Modeling and Optimization Techniques

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Miles David Kurtz
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Taylor Pano Lyberger
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Kristen Anna Riedinger
(September, 2022)
A Survey of Superfund Chemicals in Massachusetts Farms

Julie Marie Sarasua
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Lisa Grace Schleuter
(See also M.B.A., Course XV)
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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)
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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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Imane Ait mbiriq
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Remote Clinical Trials Operations: Supply Chain Management and Framework Development

Hassan Husni Ajami
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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
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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
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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
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Jane Ellen Modes
(February, 2023)
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Joyce Noh
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Mohamed Ayman Othman
(February, 2023)
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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

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

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

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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
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Using Displacement Sensors to Characterize Critical Powder Layers in Laser Powder Bed Fusion

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Marwa AlAlawi
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Samair Alyassini
Laser-Induced Particle Impact Testing in High-Pressure Oxygen Environments

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Erik Nicholas Ballesteros
Supernumerary Robotic Limbs for Next Generation Space Suit Technology

Adam Harrison Barber
(See also M.B.A., Course XV)
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 CO_2

Michael Bichnevicius
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Michael James Bishop
Preventing Stern Tube Corrosion through Shipboard Cathodic Protection

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Novel Treatment of Anal Fistulas and Endovascular Drug Delivery for Peripheral Arterial Disease

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

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(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 Chehrazi
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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

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(February, 2023)
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Shreya Dhar
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(See also M.B.A., Course XV)
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(September, 2022)
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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

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(September, 2022)
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Megan Camille Flynn
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Michael Foshey
(February, 2023)
Embroidered Multi-Modal Sensing Arrays for Tactual Perception

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

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

Daniel E. González Díaz
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Real-Time Self-Collision Avoidance for Dynamic Legged Robots

Fiona Grace Gouthro
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Ethan Logan Greene
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Anubhav Guha
(September, 2022)
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Toni-Rose Maico Guiriba
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Menglong Guo
(September, 2022)
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Zoe L. Hinton
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Enhanced Digital Capability through the use of Simulation in Footwear Product Creation

Jacob Tyler Hopkins
(See also M.B.A., Course XV)
Performing Actionable Evaluations of Sustainability Investments

Ori Hoxha
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Mariam Elisabeth Ibrahim
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Aman Jalan
(February, 2023)
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Justin Leon Jiang
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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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Samantha Violet Killy
(September, 2022)
Towards Active Object-Based Navigation

Hyeonseok Kim
3D-Printed, Internally Fed Electrospray Thruster

Benjamin C. Koenig
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Jomi Saxl Kramer
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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)
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Chenyang Li
(September, 2022)
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Heyi Li
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Mo Li
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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
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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)
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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
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(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
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Alejandro R. Sevilla
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Zhiyuan Shu
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Allison Rhett Smedberg
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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

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Innovative Structural and Mechanical Satellite Systems

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

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(September, 2022)
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Mapping the Electrodialysis Architecture Design Space by Determining Optimal System Configurations for Different Production Outputs

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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

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

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

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

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Analysis and Modulation of Manufacturing Conditions for Improved Cell Therapeutic Efficacy

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Machine Learning Enabled Inorganic Synthesis Planning and Materials Design

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(September, 2022)
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Serita Lynne Sulzman
Processing and Thermal Stability of Nanocrystalline Ag-Cu Alloys

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

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(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

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(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)
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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
(See also S.B.,Course XVIII)
Proximal Gradient Methods for Gaussian Variational Inference: Optimization in the Bures-Wasserstein Space

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(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 Learning Behavior in an Introductory 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)
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Amir Farhat
(September, 2022)
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Manuel Alejandro Favela
(September, 2022)
Investigating Different Image Representations for Image Retrieval

Hannah Margaret Field
(February, 2023)
Magnetothermal Modulation of Nerve Growth

Alisha Fong
NDF-Based API for Human-Assisted Language Planning (HaLP)

Reed A. Foster
Large Scale Superconducting Circuits with Nanocryotron Logic

Sebastian L. Franjou
(September, 2022)
Arty: Expressive Timbre Transfer Using Articulation Detection for Guitar

Kevin Frans
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Generalizable Reinforcement Learning via Open-Ended Task Generation

Stephanie Fu
More Than Meets the Metric: A New Measure for Perceptual Similarity

Evan P. Gabhart
(September, 2022)
Quantized Guessing Random Additive Noise Decoding - A Universal Quantized Soft-Decoder

Jenny Leixin Gao
(February, 2023)
Learning Z-Order Indexes with Dynamic Bit Allocation

Ricardo M. Gayle, Jr.
Potentials with Halide in LAAMPS

Jamie Geng
Characterizing the Aging of InP Quantum Dot LEDs

Irin Ghosh
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Characterizing the Structure of Transmission Matrix in Lower Dimensions

Shinjini Ghosh
Advancements in Word Alignment: Introducing a Novel Count-Based Subword Model Alongside Neural and Ensemble Models

Miguel Gomez-Garcia
Citadel: Implementing Side-Channel-Resistant Enclaves with Secure Shared Memory

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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)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Bhavish Dinakar
Attended School of Chemical Engineering Practice in Lieu of Thesis

Nathan Timothy Ewell
Attended School of Chemical Engineering Practice in Lieu of Thesis

Chinmay Shripad Gangal
Attended School of Chemical Engineering Practice in Lieu of Thesis

Aristotle Franklin Grosz
Attended School of Chemical Engineering Practice in Lieu of Thesis

Krishna Pavan Inguva
Attended School of Chemical Engineering Practice in Lieu of Thesis

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

Justin Andrew Kaskow
Attended School of Chemical 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)
Attended School of Chemical 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)
Attended School of Chemical Engineering Practice in Lieu of Thesis

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

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

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)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Theodore M. Riotto
(February, 2023)
Attended School of Chemical 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 Demsky
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-Smerek
(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
CO_2 and Public Health Impacts of US Residential Heating Electrification

China Hagström
(February, 2023)
Early Plume Development and NOx Chemistry in LOx/H_2 and LOx/CH_4 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 Electrospray Propulsion Systems

Kyle James Horn
(February, 2023)
Adaptive Oxygen Production of the Mars Oxygen ISRU Experiment (MOXIE) though 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 wtih 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 Raghuveer 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 Electrospray 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

Karenna 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 Elzanfaly

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 Accouting, 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 Delivreros: 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

Mahelaqua

Nahoko Abe

Taiwo Oluwamayowa Ajetunmobi

Keisuke Akiyoshi

Keith Edwin Anderson, Jr.

Raafet Amine Azzouz

Aizhan Balabatyrova

Guilherme Nunes Martin Bianco

Amruta Madhav Borwankar

Andy Aristides Canales

Bindu Priya Chanagala

Daniel Charles

Joel Chastain

Muhammad Ehsan Che Munaaim

Pengfei Chen

Karen da Silva Mendonca Correa

Kirsten Dotson

Rod Ebrahimi

Osayuki Daniel Eguasa

Amir Elkabir

Kristen Sarah Ellefson

Omar Hans Figueroa

Jose Oswaldo Gonzalez Moreno

Taira Goto

Kamila Theresa Guerra

Gerardo Manuel Guerrero Quichiz

Seema Gupta

Mikkel Gabriel Manahan Gutierrez

Soungah Serephina Ha

Kevin Christopher Hansom

Kazuto Christopher Higuchi

Candice Marie Hinds

Laura Elaine Holberger

Ben Benjamin Ifrach

Yoshihide Iijima

Karen Kumakura Inomata

Aditi Jha

Ki Youn Jung

Ifeoluwakiitan Kalejaiye

Jihoon Kim

Thomas Kyumwa Kisimbi

Li Min Janicia Koh

Yuka Kojima

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)

Ya Yui Sandra Lam

Luís da Cunha Lamb

Krispian Caspar Lawrence

Chenise Roddey LeDoux

Hyon Lee

Kung-Yun Lin

Li Lin

Cameron William Lothridge

Gianfranco Lucchesi

Ryan Charles Lynch

Dwip Ratan Mahajan

Mohammad Suleman Jehangir Malik

Hila Marcus

Morgan Marie McCray

Masanori Misu

Michael Geoffrey Morlino, Sr.

Mahua Mukherjee

Ryota Nakamura

Wu Wei Ngau

Kentaro Ode

Kentaro Ogawa

Yuri Ogiso

Priscilla Ong

Oghenekevwe Serena Ovbije

Dimitrios Papalexopoulos

Francisco José Pérez-Ojeda Rodríguez

Luke R. Petersen

Chieu L. Pham

Kishan Jitendra Popat

Andrianiaina Rajaobelina

Nitin Rakheja

Amiya Ranjan

Rafael Rodrigues Alves da Rocha

Ryutaro Sakaguchi

Eric Andrés Salazar Molinares

Charles Michael Salmon

Gabriel San Román Pacheco

Dilnoza Satarova

Zeeshan Haider Shaikh

Lara Monteiro da Silva

Inder Preet Singh

Suhel Yasin Soudagar

Solen Soya

Shiny Sulaiman

Li Sun

Zhenhua Sun

Kazuaki Takeda

Ayako Tanaka

Yuichi Tanaka

Shantur Suresh Tapar

Lindsay Gail Temes

Ye Tian

Emre Tok

Kenta Uchida

Oghenetega Timothy Uvieghara

Brian Dennis Lee Via

Fei Wang

Vicky Xiaoqing Wang

Eshrat Waris

Haojie Xu

Takeshi Yamaguchi

Chau-Shyang Yang

Shinichiro Yasui

Tan Yi Ling

Krisha Lynne Zagura

Master of Science in Management

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

Viquar A. Pervaaz
Authenticity in the Workplace, Is it Possible?

Master of Business Administration

Course XV-E (Executive)
Sloan School of Management

Hatem Abouelenein

Arun Kumar Adat

Mudassar Ahmed

Rehan Ahmed

Yoon Sang Ahn

James Joseph Akin

Akinbamidele Olamide Akintola

Joshua Bradley Albrechtsen

Dheera Ananthakrishnan

Michael Anthony, Jr

Octavio Arreaga Chavez

Faraj Atassi

Robert Scott Bair

Taylor Anne Becker

Hamilton Barlow Bennett

Stuti Bhargava

Scott Alan Bishop

David Arthur Blum

Alexia Bowers Borden

Hanane Boutelitene

Radzi Buckman

Benjamin Emile Leduc Butterworth

Yuri Cataldo

Holly Marie Cirignano

Duygu Oktem Clark

John Patrick Tan Co

Silvia Constain

Eric Alden Cooper

Christina Crowley

Joshua David Di Frances

Michelle Rose Diab

Jonathan Dickerson

Piers Ian Dormeyer

Kimon Georgios Doukoumetzidis Hadjadj

Hitesh Dumir

Ahmed Elsherbiny

Yusuf Erkul

Steven Michael Estvold

Konstantinos Apostolos Fetfatsidis

Steven Matthew Flanders

Elizabeth York Flanigan

Yung Fung

Edward Leonard Ganzinotti III

Koushik Gattu

Michael Walter Gebhardt

Philip J. Gerity

Brian Edward Grottkau

Tanya Hingorani

Robert E. Jackson III

Kirra Lynnette Jarratt

Oluwaseun Johnson Akeju

Andrew Joseph Jonas

Frank John Jonas, Jr.

Rahul Juneja

Nancy Copeland Kelley

Bharti Khurana

Yasmine Srouji King

Karthik Kirubakaran

Landon Mark Langford

Luqman Oloruntoyin Lawal

Michael James Leonard

Robin Williams Lindsay

Gang Vincent Liu

Song Liu

Thiago Kiill Lofiego

Daniella Lynn Logan

Ryan Christopher Lorraine

Gerald William Mackaman

Cam Arthur Macomber

Satoshi Maeda

Sandra Desrene Maher

Neil Everett Martin

Pablo Martinez Gonzalez

Kristina Masson

Marvi Ann Matos Rodriguez

Mark Christopher McDonald

Dorota McKay

Kaele Anne McMahon-Varrelman

Joseph Woodbury Tuttle McQuaid II

Luís Henrique Moreira

Hamed Moshrefi

Belinda Nilsson-Rodrigues

Peter Alexander Noseworthy

Ryan John O'Kane

Christine Ophelia Palermo

Lina Parra Cartagena

Mona Patel

Zain Patrawala

Jay Pereira

Katherine Joanne Perkinson

Shankar Kasinadhuni Prasad

Wen Qiu

Justin K. Quinn

Chandra Sekharm Ragyari

Rajmohan Rajagopalan

Sanjay Rajagopalan

Jeevan Babu Ramesh Gejjalagere

Atul Narsinh Rathod

Rune B.N. Rechenbach
Taking System Dynamics from Research to Business

Philip Rigueur

Cedomila Ristic-Lehmann

Norihiko Sakura

Viladeth Tim Sanouvong

Brandy Lynn Schenck

Diego Silva

Rouse Corbin Slape

Edward Robert Smith

Alejandro Somuano

Aditi Soni

Alexander Carlyn Soria

Arun Srinivasan

Edwin R. Suarez

Shuchi Kapoor Sud

Xiaoxun Sun

Michael Barrett Swartz

Venkata Lakshminarayana Tirupati

Meredith Giglia van der Velden

Renata Vieira Machado P Medeiros

Kylie Jo Wagner

Anne F. Wang

Derek William Warner

Michael William Wiater

Julia Miller Wilson

Mohammad Mustafa Zakarni

Xin Qi Zhang

Steven Lloyd Zweibel

Master of Business Administration

Course XV

Sloan School of Management

Zoe Abbott Boyd

Tommy Aditya

Nikita Agarwal

Sabrine Ahmed Iqbal

Zoya Sadruddin Ajani

Nicole Adole Stanfield Akwei

Fawaz Bin Sultan Al Saud

Raghad AlAttas

Melissa N. Alleyne

Fernanda Almanza Gutierrez

Njood Fahad Almehbash

Iago Almeida Neves

Bader Fahad Almubarak

Mona Mohammed Alnoaimi

Salman Alshaykh

Fahad Abdulaziz F. AlThenayyan

Ana Teresa Alvarez Hernandez

Matheus Alves Fonseca

Sumayah Abdullah Alzamil

Roshni Amin

Caroline Church Andersson

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

Kathryn Elizabeth Angevine
(See also S.M., Operations Research)
Multi-Modal Transit Time Prediction for E-Commerce Fulfillment Optimization and Carbon Emissions Reduction

Casilda Angulo Obieta

Aditya Kumar Anguria

Sean Patrick Antonuccio

Ogechukwu Venessa Anyene

Bibi Fatima Arabzada

Osvaldo Sebastián Araya Varas

Nayeli Guadalupe Arellano Martinez
(See also S.M., Course I)
Visual Sort Marker Digitization in Sort Center Operations

Adegboyega Olayode Asanpaola

Felipe Emilio Asfura Manzur

John Franklin Averill, Jr.

Daniel Mengistu Ayane
(See also S.M., Course VI)
Inference of the Novel Coronavirus 2019 in Patients Fitted with Boston Scientific Medical Hardware

Diana Esmat Shohdy Ayoub

Zeynep Ece Aytug

Khadija Ba

Neelesh Bagga

Adam Harrison Barber
(See also S.M., Course II)
Modeling Passenger Electric Vehicle Charging Demand with Machine Learning Using Telematics Data and Temperature

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

Kate Elana Bartick

Abdulaziz Ben Baz

Jan Berczely Prada

Rattan Priya Bhasin

Swati Anand Bhat

Ragini Bhattacharya

Andres G. Bisono Leon

Eduardo Bohrer
(February, 2023)

Atikhun Boonchian

Phiphat Boonperm
(February, 2023)

Glenn Michael Borok

Juan Pablo Borrero Cordova

Mercer Renée Borris
(See also S.M., Course VI)
AI in the Cath Lab: Implications of Clinical AI-Enabled Assistance for Intravascular Ultrasound Procedures

Peris Nyaboe Bosire

Stephanie Irion Boulger

Eliza Susanne Bragg

Renan Bragion Bicudo

Nahom Haile Brhane

Emily R. Bridges

O'Shae Malik Bridges

Samuel Nathan Broner

Francisco Jose Bruna Lagos

Nicolás Buero Viana

Gregory Steven Campo

Diego Carballo Hevia

Christopher Taylor Carr
(February, 2023)
(See also S.M., Real Estate Development)

Courtney Tighe Carrabino

Robert Alexander Carraway

Gregory Alan Cass
(See also S.M., Course I)
Driving Growth Through Sales and Operations Planning, Inventory Management, and Supply Chain Expansion

German Andrés Castaño Mancera

Caterina Leuzzi Castellano

Maria del Coro Celigueta Azurmendi

Sarah Melissa Centanni

Iheb Sadok Chalouat

Saejal Chatter

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

Jane Chen

Joyce Jy Chen

Tzu-Chiao Chen

Yu Chen

Qinyi Chew

Luka Chomich

Victor Hing Shing Choy

Chia-Han Chung

Jinryang Chung

Alice Cima

Matthew Jonathan Cohen

Elias Cohen Mizrahi

Hannah Gail Constantakis

Hunter Joseph Conti

Madeleine Margaret Cooney

Gabriel Hashimoto Cordaro

Isabel Cordón Escobar

Fayner Costa

Bryn E. Coughlan

Evan Bradley Crane

Bruce Robert Crawford

Brooke Montgomary Crowe

Yuke Cui

Wei Dai

Carlo Dal Pizzol

Pannatorn Daochai

Rachel Erica Davidson

Connor Charles Davock

Tyler Clinton de Gorter

Joao Paulo de Moraes Tranquez

Amelia Rose De Paola

Oskar Thedor de Smet

Siddharth Ketan Dedhia

Marie Gabrielle Dee

Maya Cristina Delaney

Akshay Rangasai Devalla

Laura Ann Diggans

Tonguc Barkin Doganay

Rafael Donatti Alves Maia

James Michael Donegan
(See also S.M., Course II)
Sustainability Analytics – Meeting Carbon Commitments Most Efficiently

Yiyi Dong

Francisco Dubournais Donoso

Michael Ryan Duch

Rebecca A. Durr

Anna Kathleen Eckhoff

Kathleen Theresa Egan

Alain El Khoury

Angeles Elias

Nicholas Francis Esposito
(See also S.M., Course II)
Make vs. Buy Optimization for Industrial Distribution and Manufacturing Company

Clara Estol

Mimi Peng Fan

Steve T. Fan

Ross Mulder Feehan

Catherine Tilghman Fernan

Albert B. Fernandez

Roderic Iñaki Figueroa

Ayesha Forbes

Sarah Graff Fox

Santiago Frias Silva

Ayaka Fujisaki

Avery Gilbert Fullerton
(See also S.M., Course II)
Ship-Pack Optimization to Minimize Fulfillment Costs from Manufacturing to Customer

Francisco Javier Galindez de Jesus
(See also S.M., Course II)
Integrated Energy Modelling Tool for Electric and Gas Infrastructure Decision Support

Gonzalo Galindo Barragan

Belén Gallego Vara

Viktoria Galperina

Evan Gao

José Gaytán de Ayala Roca de Togores

Olajumoke Yetunde Gbeleyi

Elorm Mortia Gbordzoe

Margaret Calliope Georgiadis
(See also S.M., Engineering and Management)

Boyana Svetoslavova Georgieva

Benjamin R. Gertner

Mainak Ghosh

John Michael Gibbons

Aseem Goel

Stephanie Janet Gomez Menzies

Zhen Zhen Gong

Amber Michelle Gonzales-Vargas

Agustin Gonzalez de Abiega

Kyle Lindon Gordon

Daniela Gorza

Fiona Grace Gouthro
(See also S.M., Course II)
Innovation Process at Omnichannel DCs Undergoing Shifts in Channel Mix

Rishabh Goyal

Austin Elliott Gray

Alexander Robert Green

Ethan Logan Greene
(See also S.M., Course II)
Development of a Student Operated Production Facility Using Discrete Event Simulation and Continuous Improvement

James Sylvester Guerin

Amitabh Guha Roy

Toni-Rose Maico Guiriba
(See also S.M., Course II)
Improving Supply Chain Resiliency through Aseptic Connector Alignment and Standardization

Jianduo Guo
(February, 2023)

Pulkit Gupta

Sahil Gupta

Jose Guzman Ossandon

Jonas Richard Hauser

Robert Massey Hayes

Ruizhe He

Ziv Heimlich Shtacher

Lauren Marie Heintz
(See also S.M., Course VI)
Scenario Analysis of Profitability through Simulation of Different Business Contract Models

Marcos Helbling

Cindy Alejandra Heredia

Karen Joy T. Hernandez

Zoe L. Hinton
(See also S.M., Course II)
Enhanced Digital Capability through the Use of Simulation in Footwear Product Creation

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

Priscilla Wainer Licht

Caroline Marguerite Liegey

Hsuan Lin

Madeline Linde

Darryl Andrew Lindie

Boyuan Liu

Frank Fang Liu

Kyna Liu

Lisa Liu
(See also S.M., Course II)
Model-Based Technology Roadmapping of Fuel Cells in Sustainable Aviation Applications

Mali Lou

Gianpaolo Luciano Rivera
(See also S.M., Operations Research)
Data-Driven Clustering for New Garment Forecasting

Michael Joseph Luis

Ingrid Gerda Lund

Kyle J. Lux
(See also S.M., Course II)
Identifying Bottlenecks through Process Consistency in High-Capacity Automated Manufacturing

Taylor Pano Lyberger
(See also S.M., Course I)
Towards Zero Defect Manufacturing in Multi-Stage Production Systems

Lisa Ann Lyons

Emmanuel Rufino Maceda

Sandhya Mahadevan

Tarek Hussam Makawi

Sarah Shamim Malek

Pooja Malhotra

Bayazid Malikov

Samuel Jack Mansberg

Joshua Marcovici

Cristóbal Marín Siebel

Dragana Marinkovic

Eduardo Maristany
(See also S.M., Course XVI)
Economic Analysis of 3D-Printed Ceramic Cores for Gas Turbine Investment Castings

Phillip C. Marmolejo

Clemens Antoine Laurent Martin

Shashidhar Masireddy

Yutaro Matsui

Lucia Matzumura Umemoto

Megan Ann McCarthy

George Bailey McConnell

Michael Ryan McGetrick

Christopher Robert McGuire

James Craige McNay

Manuel Mendez

Shehara Marini Danushka Mendis

Lorenzo Alejandro Mendoza Pulido

Andrew James Mighty
(See also S.M., Course VI)
Autonomous Drone Assisted Aircraft Inspections

Gabriel Mijares Margáin

Kayla Louise Miller

Timothy Michael Miller

Somesh Mohapatra
(February, 2023)
AI-Assisted Reaction Impurity Prediction and Inverse Structure Elucidation

Alexandra Frances Moir

Lucio Alexander Mondavi

Javier Gregorio Montero Echeverria

Eduardo Moraes Schuch

Guillermo Moraleda Conejo

Claudia M. Moreno Gonzalez

Justin Daniel Mueller

Michaela Elizabeth Murr
(See also S.M., Course VI)
Predictive Models from Real-time Sensors in Process Analytical Technology Initiative in Biomanufacturing

Madison Christine Myers
(See also S.M., Course II)
On-Site Hydrogen Production via Distributed Methane Pyrolysis

Maria Corina Negron Pardo

Asia Beatrice Nelson

Samuel Jared Newman

Richard P. Newton

Mauricio Neyra

Clyde-Blaise Niba

Michael Patrick Nieset

Noshin Anjum Nova

Cristiano Novack Amaral Pereira

Akiyo Nozaki

Matthew Stewart O'Neill

Victor Ogbonnia Obiahu

Sean Jungmin Oh

Neha Onteeru

Karen Eberechukwu Onwuegbule

Joseph Paul Samuel Orsborn

José Luis Ortiz Rosero

Wayne Donbi Pak

Jennifer Lindsey Pandolf
(See also S.M., Course XVI)
Investigation of Model-Based Systems Engineering Integration Challenges and Improvements

Santiago Pardo Sanchez

Vicente Parodi

Juan Pascual Orero

Gabriel Joseph Pascualy
(See also S.M., Course VI)
Enabling Actionable Maintenance Analytics with Ontology-Driven Natural Language Processing

Kyle Arjun Patel

Vivek Pejaver

Stwart Peña Feliz

Jonathan Perel

Aaron Perez

Natalie Annie Petrossian

Andrew Augustus Piscione

Pitchakorn Pokrud

Shanan Kumar Powell

Varun Prasad

Divesh Suresh Punjabi Archbold

Jillian Louise Puskas

Anisha Siddiqi Quadir

Andres Quesada Nicoli

Yashvardhan Shobhit Rajan

Maria Teresa Ramos Tormo

Toni Ramsay

Jose Manuel Rebolledo Velasco

Gabriela E. Redhead

Almog Reshef

Yong-Min Sol Rhee

Shira Helen Rieke

Nahel Rifai Burneo

Carlos Rios Riviello

Maria Paula Rivarola Monzon

Alp Rona Rodopman

Alexander Rodosky

Flavio Rodrigues Alves Neto

Aldo Fernando Rodriguez Garcia

Elena Micky Rodriguez-Villa

Genevieve Emily Rogers

Samuel Paul Rose

Hannah Jordan Rubin

Esther Susana Rufat Meix

Anna Russell

Heather Elizabeth Sabel

Christen Frith Safko

Caroline Juliet Connors Sambuco

Vivek C. Sandhu

Darron Robert Sandifer
(See also S.M., Course II)
Continuous Improvement Framework for a Multi-Model Production Line

Omer Sheik Sanjay

Khalyani Sankar

Paula Santamaria-Missetzis

Caio Marques dos Santos

Avika Saraf

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

Julia Sarra Rizkallah

Hugh Michael Satterthwaite

Paige Ann Schank

Joshua Henry Scharf

Lisa Grace Schleuter
(See also S.M., Course I)
Site Material Supply Chain Optimization

Matthew Joseph Schmidt

Tanner Rae Schwiesow

Lucy Eastman Scott

Chandler Semjen

Lynette Hui Xin Seow

Marco Antonio Sepúlveda Lasen

Gauri Seth

Naveen Vishnu Sharma

Alula Teshome Shiferaw

Kana Shinozaki

Matthew Neil Shisler

Isaac F. L. Silberberg

Guillermo Jose Siman, Jr.

Matthew William Simpson

Mihiraan Malhotra Singh

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

Alexandra Elizabeth Smith

Sharul Sonthalia

Nicha Sophonpanich

Ardeshir Hormazd Sorabjee

Tiya Sosothikul

Siddarth Sreeram

Hunter Lauren Stahl

Alexandra June Steckmest

Patrick Shaw Stewart

Thomas Ryan Stuart
(See also S.M., Course XVI)
Defining Core Manufacturing Capabilities at Raytheon Missiles & Defense

Haryuni Sumawijaya

Julianna Kathryn Swartzenberg

John Bartholomew Sweeney V

Max Alan Tanski
(See also S.M., Course VI)
Making More Miles: Automating Load Selection, Truck Dispatch, and Backhaul Activation in Outbound Logistics Operations

Kevin Michael Tenny
(See also Ph.D., Course X)

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

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

Peter Song Tian

Zachary Wentworth Tieke

Jacob Andrew Tomasovic
(See also S.M., Course II)
Manufacturing Integration: Managing Throughput and Organizational Change

Stephen C. Townsend

Wellington Trindade Vitorino, Sr.

Tiffany Tsai

John Oscar Turner

Benjamas Tusakul

Onyinyechi Chiemela Ukaire
(See also S.M., Course VI)
Predicting and Preventing Unsafe Events at an Enterprise

Shaundra Julianne Ullman

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

Andrea Urbieta Ugarte

Cory Douglas Vandivier

Maria del Mar Velasco

Silvia Ines Velasquez Casado
(February, 2023)

Diya Rao Verghese

Gaurav Verma

Megan Amelia Vigliarolo

Adrian Villarreal Chavez

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

Shiv Anil Wadhwani

Taylor Richandra Jandel Walker

Jingyi Wang

Jonathan Hung-Yu Wang

Rachel Wang

Molly Raim Wartenberg

Rachel Elizabeth Weintraub

Seth Michael Weintraub

Joshua Ian Weisberg
(See also S.M., Course I)
Enhancing Manufacturing Performance to Plan with Predictive Analytics

Dean Richard Wetty

Samuel Thomas Weyen

Jennifer Corley Whaley

Alfre Wimberley

Olivia Lee Wold

Patrick Nelson Wolff

Chi Ho Wong

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)

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(September, 2022)

Bennett Madson Hellman
(September, 2022)

James Walter Hennessy
(September, 2022)

Erik Viktor Henriksson
(September, 2022)

Amy Kee Young Ho
(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)

Charlotte Kennedy
(September, 2022)

Ananya Jayalakshmi Krishnan
(September, 2022)

Vincent C. Lao
(September, 2022)

Benedict Shee Toh Lee
(September, 2022)

Riley David Lenaway
(September, 2022)

Xiao Geng DeMars DeRover Li
(September, 2022)

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(September, 2022)

Kyle Aaron Mana
(September, 2022)

Maria Camila Marenco Tamara
(September, 2022)

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(September, 2022)

Manik Kumar Mukherjee
(September, 2022)

Aritro Nandi
(September, 2022)

Jessica Nunez
(September, 2022)

Ultan Brian O'Rourke
(September, 2022)

Chloe Sarah Pariente
(September, 2022)

Lorenzo Pugliese
(September, 2022)

Brandon Michael Ransom
(September, 2022)

Vincent Angelo Rogers
(September, 2022)

Gibson David Russell
(September, 2022)

Claire-Alix Valerie Saillard
(September, 2022)

Jesús Rafael Sánchez Sánchez
(September, 2022)

Mathieu Jonathan Paul Sibué
(September, 2022)

Ishaan Jordan Singham
(September, 2022)

Mariana Margarita Suarez
(September, 2022)

Felicie Marie Marion Margot Tard
(September, 2022)

Ian Jacob Paul Tongs
(September, 2022)

Ryan Ian Trusler
(September, 2022)

Yi Wang
(September, 2022)

Yuepeng Wang
(September, 2022)

Zijin Wang
(September, 2022)

Yijun Wei
(September, 2022)

Dayna V. Wilmot
(September, 2022)

Siqi Wu
(September, 2022)

Rocky Ziang Xie
(September, 2022)

Yiwen Zhang
(September, 2022)

Jiesi Zhou
(September, 2022)

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)

Asem Ghasan Alsadeq
(February, 2023)

Constantinos Anastasiou
(February, 2023)

Mohammad Mustafa Arif
(February, 2023)

Sandro Joseph Antoine Azzam
(February, 2023)

Kunal Bansal
(February, 2023)

Elisa Tabea Marie Becker-Foß
(February, 2023)

Arsenii Bekbulatov

Meryem Bennani

Diane Bonnault

Pietro Bosani
(February, 2023)

Arthur Maxime Claude Breabout
(February, 2023)

Aliyah Oluwadarafunmi Busari
(February, 2023)

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(February, 2023)

Yuchen Cao
(February, 2023)

Giulia Capannelli

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
(February, 2023)

Lilian Denis Albert Delamare

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(February, 2023)

Mai-Linh Tuyet Danielle Duong

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(February, 2023)

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Héctor Ernesto García Pérez

Ribhav Gaur

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Leonard Glimm
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(February, 2023)

Avaneep Gupta
(February, 2023)

Tivas Edward Gupta

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William Høiness
(February, 2023)

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Yunchang Hu

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Simeon Stanislavov Ivanov

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(February, 2023)

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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(February, 2023)

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)

Wynston Avery Reed

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Yue Shu
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Hanxiao Si

Xinpei Sun
(February, 2023)

Hizkia Adrian Susanto
(February, 2023)

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

Emil John Syrén
(February, 2023)

Zimo Tang
(February, 2023)

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(February, 2023)

Lizbeth Joana Tirado Torres
(February, 2023)

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Zeyi Zhang
(February, 2023)

Zhehao Zhang
(February, 2023)

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 Bensan
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

Hirotaka 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 Taupathic 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 fCO_2 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

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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 Policya 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 Breaden 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 Jaqueline 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
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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

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(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
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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 Designs 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

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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 Degrader 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

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(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

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Thesis in the field of Electrical Engineering and Computer Science: Analog-to-Digital Converters for Secure and Emerging AIoT Applications

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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
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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

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(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
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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 Ergeçen
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 Soyoung 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

Weiqiao 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

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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 Ilia
(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
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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: Intragastric 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
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Thesis in the field of Aeronautics and Astronautics: An Optimization Centered Approach to Multifidelity Aircraft Design

Colin Clancy Kelsall
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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

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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 Electrospray 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 Thomae
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 Regulatroy 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

Wenjie 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 Freiheyt
(September, 2022)
Thesis in the field of Political Science: Essays on the Political Economy of Inequality, Wealth, and Money

Abigail Jean Hoenig 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 Francl
(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
(February, 2023)
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 and Cognitive Sciences: The Role of Language in Broader Human Cognition: Evidence from Neuroscience

Nima Jaberi-Lashkari
Thesis in the field of Biology: Low Complexity Regions in Biological Matter: Sequences, Higher-Order Assembly, and Evolution

Onyu Jung
(September, 2022)
Thesis in the field of Chemistry submitted to the Department of Chemistry: The Role of Surface Coverage of Reaction Intermediates in Heterogeneous Electrocatalysis

Nicholas William Kamp
Thesis in the field of Physics: Experimental and Phenomenological Investigations of the MiniBooNE Anomaly

Alexander Elliot Kissinger Kaplan
Thesis in the field of Chemistry submitted to the Department of Chemistry: Coherence, Dephasing, and Quantum Interference in Colloidal Perovskite Nanocrystals

Meghann Rebecca Kasal
Thesis in the field of Biochemistry submitted to the Department of Biology: Lon Degrades Stable Substrates Slowly but with Enhanced Processivity, Redefining the Attributes of a Successful AAA+ Protease

Changhae Andrew Kim
(September, 2022)
Thesis in the field of Chemistry submitted to the Department of Chemistry: I. Kinetic Modeling of Surface Reactions II. Computational Design of Organic Semiconductors

Jungsoo Kim
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: The Flexible Mind of a Worm: The Atlas of Brain-Wide Representations of Behavior in *C. elegans*

Younhun Kim
(February, 2023)
Thesis in the field of Mathematics: Algorithms for Reconstructing Biological History from Genomic Data

James Levi Knippel
Thesis in the field of Chemistry submitted to the Department of Chemistry: Development of Stereoselective Hydrofunctionalization Reactions Enabled by Dual Copper (I) Hydride and Palladium Catalysis

Matthieu Kohl
(February, 2023)
Thesis in the field of Atmospheric Science submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Moist Macroturbulence and Baroclinic Instability of the Midlatitude Atmosphere

Sergei Korotkikh
Thesis in the field of Mathematics: New Degrees of Freedom in Integrable Models with q-Hahn Weights and Their Applications to Symmetric Functions and Probability

Leo Kozachkov
(February, 2023)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Achieving Stable and Brain-Like Dynamics in Neural Circuits via Contraction Analysis

Luis Kumanduri
Thesis in the field of Mathematics: Homotopically Nontrivial Area Contracting Maps

Ethan Lake
Thesis in the field of Physics: Many-Body Physics of Kinetically Constrained Systems

Daniel William Laorenza
Thesis in the field of Chemistry submitted to the Department of Chemistry: Molecular Color Centers

Nhat Minh Le
(September, 2022)
Thesis in the field of Neuroscience and Statistics submitted to the Department of Brain and Cognitive Sciences: Behavioral Strategies and Neural Mechanisms for Dynamic Foraging

Byron Lee
(February, 2023)
Thesis in the field of Biology: A Unified View of Protein Low-Complexity Regions (LCRS) across Species

Choongman Lee
(February, 2023)
Thesis in the field of Physics: Targeting and Manipulating Endogenous Transcriptional Condensates

Eugene Li Qun Lee
(February, 2023)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Temporal Pattern Processing by the Nematode *Caenorhabditis elegans*

Hyunseok Lee
(February, 2023)
Thesis in the field of Physics: Emergent Behaviors in Microbial Communities

Michael Jinsuk Lee
(September, 2022)
Thesis in the field of Cognitive Science submitted to the Department of Brain and Cognitive Sciences: Rapid Human Learning via Low-Dimensional Perceptual Space

Sangbaek Lee
(September, 2022)
Thesis in the field of Physics: Measurement of the Deeply Virtual Compton Scattering Cross Section from the Proton at 10.6 GeV Using the CLAS12 Detector

Yi Ning Leow
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Multiplexed Representations of Uncertainty by Mouse Pulvinar-Prefrontal Projections during Goal-Directed Behaviors

Calvin Leung
Thesis in the field of Physics: Localization and Lensing of Fast Radio Bursts Using CHIME/FRB and its VLBI Outriggers

Abraham Lewis Levitan
Thesis in the field of Physics: Studying Electronic Textures with Coherent Lensless Imaging

Talya Sophia Levitz
(February, 2023)
Thesis in the field of Biochemistry submitted to the Department of Biology: A Biochemical Study of the Neisseria Gonorrhoea Ribonucleotide Reductase

Andrew James Lew
(February, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Elucidating Structure-Property Relationships for Targeted Materials Mechanical Design

Junang Li
(September, 2022)
Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Thermodynamics of Biological Active Matter

Zeyang Li
Thesis in the field of Physics: Exploring Novel Quantum Physics Using Ytterbium-171 in An Optical Cavity

Andrew John Licini
Thesis in the field of Chemistry submitted to the Department of Chemistry: Electrolysis of Molten Polyphosphate Salts Generates P4 and O2: Selectivity, Kinetics, and Stability Behind a Promising Alternative to Carbothermal Phosphate Reduction

Grace Yun Liu
(February, 2023)
Thesis in the field of Biology: The Evolution of Nutrient Sensing in the mTORC1 Pathway

Jinghui Liu
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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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