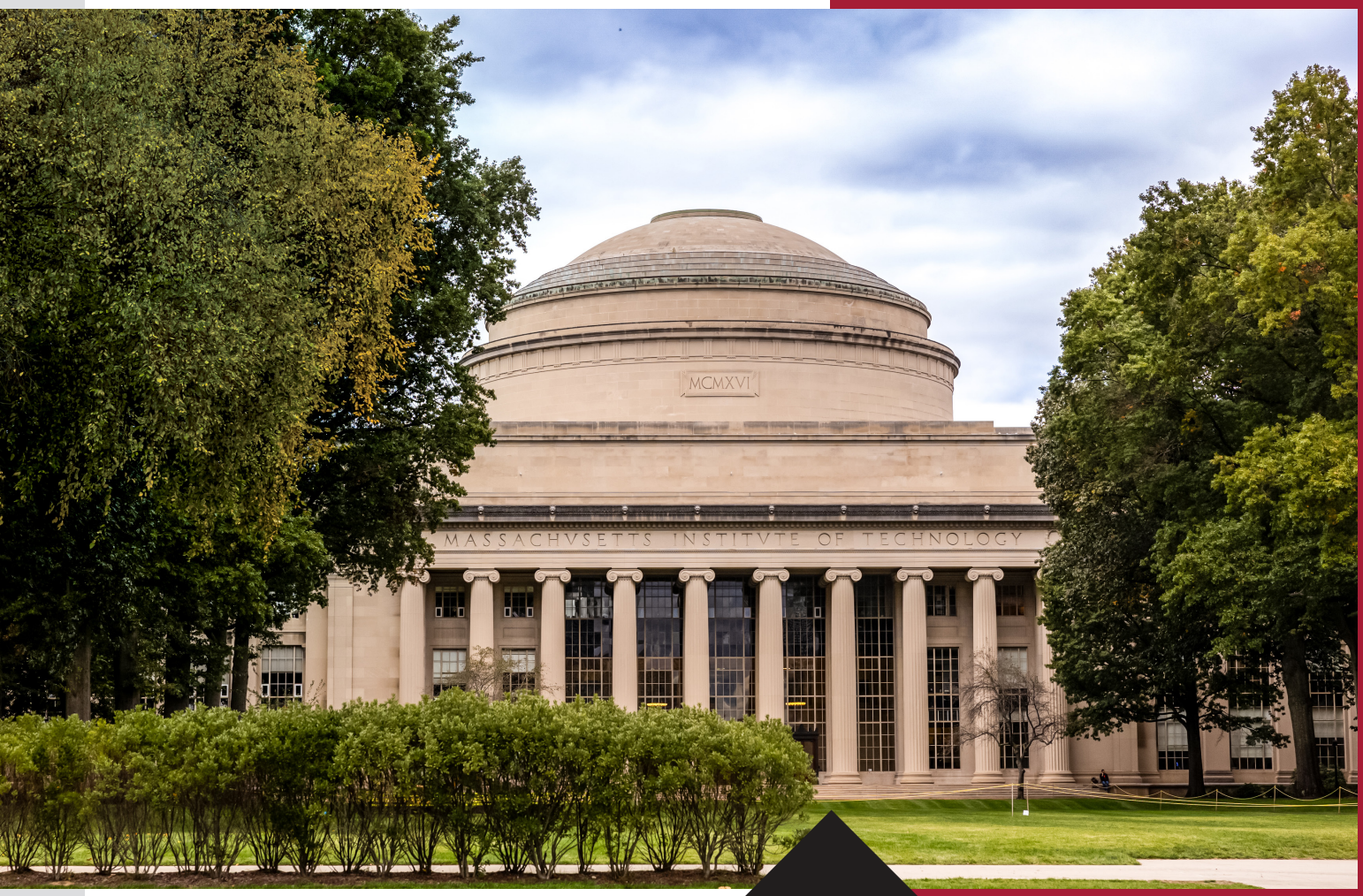

MIT
COMMENCEMENT
2024

MIT Commencement

Honoring the graduates of 2024

Thursday, May 30, 2024

Massachusetts Institute of Technology

WELCOME

The Class of 2024 will join a great, global family of nearly 147,000 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 2024!

Sally Kornbluth
President

Photos
Above: Gretchen Ertl
Cover: Jake Belcher
Back cover: Dominick Reuter

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Minor in Mathematics

Bochuan Zhang

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

Savannah Jae Ashley

Ochiba Marie Oghenemudiakev Attah
(See also M.Eng., Course VI-7)

Stanley Chen
Minor in Finance

Tina T. Chen
Minor in Asian and Asian Diaspora Studies

Keanu A. Clark

Aidan A. Cordero

Sydney A. Dell
Minor in Public Policy

Lilly Kathryn Edwards

Aria Rosalee Eppinger

Leon Fan

Angela Gao

Zoe Anne Gotthold

Madeline Hon

Anna Kwon

Victoria Inibiokun Oluwatobiloba Longe
Minor in Theater Arts
(See also M.Eng., Course VI-7)

Melissa F. Nie

Delight Oluwalonimi Chidima Nweneka
Minor in Environment and Sustainability
(February, 2024)

Nithin Parsan
(February, 2024)

Charvi D. Sharma
Minor in Theater Arts

Grace Karen Sun

Erin M. Thompson
Minor in Environment and Sustainability

Brandon Wang
Minor in Mathematics

Jared Zheng

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

Joy Sera Bhattacharya
Minor in Business Analytics

Noah A. Bryce
(February, 2024)

David Jeffrey Chen
Minor in Mathematics

Tammy Chen

Angelica April Chin
Also with a Major in Course XV-2
Minor in Music

Dionne-Marie N. Daku-Mante
Minor in Theater Arts

Jamil Alejandro Dellawar
Also with a Major in Course XV-2

Dylan R. Dong

Eric J. Gan

Jia-en J. Hu
Minor in Mathematics

Rahul Kaukuntla
(February, 2024)

Leila Rania Khan

Katherine Elizabeth Kostecki
Also with a Major in Course XV-2

Angela Li
Also with a Major in Course XV-2

Joseph Z. Li
Also with a Major in Course XV-2

Maria Li

Kaitlin Y. Lim

Brian H. Liu
Also with a Major in Course XVIII

Eileen Angela Liu
Also with a Major in Course XVIII
Minor in Business Analytics
Minor in Chinese

Joshua Shay Masuda
Also with a Major in Course XV-2
Minor in Mathematics

Raj A. Mehta
Also with a Major in Course XV-2

Srinidhi Narayanan
Also with a Major in Course XVIII

Erika Pilpre

Francisco Rafael Proskauer Valerio

Sebastian Miguel Quintero

Jackson H. Roberson
Also with a Major in Course XV-2

Vivian Keyi Shao
Also with a Major in Course XV-3

Zhurui Sheng
Also with a Major in Course XVIII

James B. Simon
Also with a Major in Course XV-2

Rorie A. Simpson

Wenjin Sun
Minor in Business Analytics

Sanprem Taechawichian
Minor in Finance

Loic H. Venon
Also with a Major in Course XV-3

Vanessa R. Vidic
Minor in Writing

Karen Ruiyi Wang

Melody L. Wen
Minor in Mathematics

Samantha Ying
Also with a Major in Course XV-2
(February, 2024)

Alice Yu
Also with a Major in Course XV-2

Ruiying Zheng
Also with a Major in Course XV-2

Bachelor of Science in Chemical Engineering

Course X
Department of Chemical Engineering

Rachel Ahlmark
Minor in Economics
Minor in Energy Studies

Andrea Aude
Minor in Energy Studies

Kathleen Rose Bailey
Minor in Energy Studies

Tamara Bristol Brabson
(February, 2024)

Tamea Malana Cobb
Also with a Major in Course XXI-L

Caleb B. Cowger

Jason Alejandro Garcia
Minor in Energy Studies

Andre Farai Hamelberg
Also with a Major in Course XVIII

Phoebe S. Hartch

Maggie Liu

Priya Amanda Moncrieffe

Gabrielle Leigh Moore

Timothy Nguyen

Fiona M. Shortt
Minor in Management

Anaisa Nicole Sibel
Minor in Energy Studies

Steven C. VanPelt

Ava Elizabeth Vargas

Yi Jun Yang
Minor in French

Audrey Hiu-Lui Yip
Minor in Spanish

Yan Zheng

Bachelor of Science in Chemical-Biological Engineering

Course X-B
Department of Chemical Engineering

Kelcey Alia Allen
Also with a Major in Course VII

Makena Armstrong
Minor in Biology

Yunbeen Bae
Also with a Major in Course VII

Eliza Jane Bazakas
Minor in Computer Science

Lynette Xin Chan
Also with a Major in Course VII

Austin Chin

Fiona Duong
Also with a Major in Course VII

Ezra Z. R. Gordon

Kyle A. Hare
Also with a Major in Course VII

Dien Le Hai Nguyen
Also with a Major in Course VII

Khiem Huu Nguyen
Also with a Major in Course VI-3

Sydney An Pham
Minor in Biology

Josephine L. Ramirez
Also with a Major in Course VII

Alfonso D. Restrepo
Also with a Major in Course VII

Smah Riki
Also with a Major in Course VI-7

Alexander F. Seguin
(February, 2024)

Jack Rankin Suggs
Also with a Major in Course VII
Minor in Chemistry
Minor in Economics

Bachelor of Science as recommended by the Department of Chemical Engineering

Course X-C
Department of Chemical Engineering

Helen Chen
Also with a Major in Course VI-3

Bachelor of Science in Engineering as recommended by the Department of Chemical Engineering

Course X-ENG
Department of Chemical Engineering

Alexander R. Freedline

Michael Kojo Hanson

Kezia Elaine Hector

Joshua Curtis N. Kuffour
Also with a Major in Course XVIII
Minor in Energy Studies

Nnedimma Okoye

Charles Kit Phu
Minor in Chemistry
Minor in Energy Studies

Sebastian Rotella
Also with a Major in Course VIII
Minor in Energy Studies

Soo Yeon Ryu

Annlin Su
Minor in Physics

Pris Wasuwanich

Tatum Grace Wilhelm
Minor in Anthropology

Bachelor of Science in Aerospace Engineering

Course XVI
Department of Aeronautics and Astronautics

Melissa Marie Bauer

Micah Melanio Borrero
Minor in Political Science

Madison M. Bronnimann
Minor in Japanese
(February, 2024)

Dankwa Buckle

Wing Lam Chan
Minor in Computer Science

Yatin J. Chandar
(February, 2024)

Fritzgerald Duvigneaud
Also with a Major in Course VI-2

Matthew W. Elliott
Minor in Management
Minor in Management

Michael R. Finch
Minor in Computer Science

Mary Grace Foxen

Luis Alonso Garcia
Minor in Finance

Dane M. Gleason

Erick Gonzalez
Minor in French

Timothy John Grazier
Minor in Finance

Daniel J. Gurga III
Minor in Computer Science

Adrian Omar Gutierrez
Minor in Computer Science

Claire N. Johnson
Also with a Major in Course VIII
Minor in French

Phillip A. Johnson III

Connor G. Kaminska
(February, 2024)

Michael Richard Kraus
Minor in Computer Science

Alazar Lemma

Ryan N. Lemone

Alan Lomba

Remeyn S. Mechura
Minor in Chinese

Joseph Alexander Merkel
(September, 2023)

Caden Allan Moore
Minor in Music

Christina Nguyen
Minor in Theater Arts

Heath G. Nilsen

Miles Alexander Oglesby
Minor in Urban Studies and Planning

Cecilia Pérez Gago
Minor in French

John Jairo Posada

Oliver E. Rayner

Benjamin R. Rich
Also with a Major in Course VI-4

Garrett Immanuel Robinson

Dinuri Senara Bandara Rupasinghe
Minor in Computer Science

Vanessa J. Sanchez Guiza

Morgan E. Schaefer
Minor in Music

Cruz S. Soto
Also with a Major in Course VIII

Jose Soto

Ethan M. Stewart
Also with a Major in Course XV-1

Grant Edward Thomas
Minor in Music

Robin Mia Tian
Minor in Computer Science

Carlos A. Trivino

Sophia J. Wang

Joseph R. Ward
Also with a Major in Course XVII
(February, 2024)

Joshua W. Wornell

Spencer R. Yoder
Minor in Economics

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

Course XVI-ENG
Department of Aeronautics and Astronautics

Isaac James Broussard
Also with a Major in Course VIII

Nicholas J. Ciepley
(September, 2023)

Hillel Dei
Also with a Major in Course XVIII
Minor in Economics

Ahmed Tijan Diongue

Isabella I. Golemme

Xav Harrigin-Ramoutar

Michelle J. Luo
Also with a Major in Comparative Media Studies
(February, 2024)

Nicole McGaa

Bachelor of Science in Biological Engineering

Course XX
Department of Biological Engineering

Viktor Baltin
Also with a Major in Course VI-9

Lindsay A. Bolino
Minor in Spanish

Joshua M. Callaway

Kam Yan Cheung

Yeji Cho
Minor in Earth, Atmospheric, and Planetary Sciences

Mitali Chowdhury
Minor in Urban Studies and Planning
Minor in Environment and Sustainability

Mahaam M. Desai

Hannah R. Donner

Abigail E. Dzordzorme
Also with a Major in Sci., Tech., & Society

Ellie Feng

Zoe Natalia Garcia Baumbeck
Minor in Management
Minor in Management

Isobe M. Garrett

Omkar P. Ghenand
Minor in Computer Science

Marie Alice Claire Goemans

Nicole Elizabeth Harris
Minor in Spanish

Michelle Angelica Hsu
(February, 2024)

Shannon Kang
Minor in Computer Science

Katherine A. Kitzinger
Minor in Mechanical Engineering

Ria Kolli

Arbri Kopliku
Minor in Computer Science
Minor in Science, Technology, and Society

Demi J. Laforest

Allison Lam
Also with a Major in Course VI-1

Erika L. Leasher
Also with a Major in Course IX

Kimberly Liao

Jingting Lin

Sabrina Chen Liu

Abigail Lo
Minor in Computer Science

Amanda Wang Mei
Minor in Computer Science

Sabrina Pingzhu Meng
Also with a Major in Course VI-2
Minor in Music

Sara A. Modiano

Natalie A. O'Hearn

Favour Ayomide Oladimeji
Minor in Chemistry

Sruthi Parthasarathi
Also with a Major in Course VI-2
Minor in Mathematics
Minor in Music Technology

Zoe J. Pasetsky

Anusha Puri
Minor in Biology

Alesandra Loren Pusey
Minor in Environment and Sustainability

Shriya M. Rangaswamy
Minor in Mathematics

Kayla Suarez

Sarah Sajila Syed
Also with a Major in Course XV-1
Minor in Biology

Ella Susanne Trumper
(February, 2024)

Vivian T. Vu
Minor in Computer Science

Daisy Wang
Minor in Women's and Gender Studies

Isabella H. Witham

Bryan M. Wong

Victoria Yang
Minor in Computer Science

Gianfranco L. Yee
Minor in Biology

Lucy Zhao

Jessica A. Zylstra

Bachelor of Science in Nuclear Science and Engineering
Course XXII
Department of Nuclear Science and Engineering

Emilio Ahuactzin-Garcia
Also with a Major in Course VIII

Bethany A. Belleque
(September, 2023)

Aidan M. Hallinan
Minor in Economics

Armando Angel Martinez
Also with a Major in Course VIII

Lucy M. Nester
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

Carmen Maria Avila Padilla

Mriganka Mandal
Also with a Major in Course VII

Jordan J. Parker-Ashe

Brianna Noelani Ryan
Also with a Major in Course VIII
Minor in Astronomy
(See also S.M., Course XXII)

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

Bachelor of Science in Economics
Course XIV-1
Department of Economics

Santiago A. Cantu

Lukas J. Hanson-Puffer
Also with a Major in Course XV-1
Minor in Environment and Sustainability

Bachelor of Science in Mathematical Economics
Course XIV-2
Department of Economics

Tammy C. Le

Joshua N. Nwakoby

Quentin Ansley Smith
Minor in Theater Arts

Stacy S. Wang
Also with a Major in Course VI-4

Bachelor of Science in Political Science
Course XVII
Department of Political Science

Luka Bulić Bračulj
Also with a Major in Course XVIII
Minor in Statistics and Data Science

Diana Carol Degnan
Also with a Major in Course XIV-1
(February, 2024)

Leela Fredlund
Also with a Major in Course VIII

David A. Spicer
Minor in American Studies
(September, 2023)

Bachelor of Science in Writing
Course XXI-W
Program in Writing and Humanistic Studies

Malhaar Agrawal

Celina Tang Zhao
Minor in Biology

Bachelor of Science in Humanities and Engineering
Course XXI-E
Department of Humanities

Andrew R. Berta

Gisella Kemilembe Kakoti
(February, 2024)

Frank Y. Liu
(February, 2024)

Grace A. McMillan

Jaime Villarreal

Bachelor of Science in Humanities and Science
Course XXI-S
Department of Humanities

Bryan N. Burgos
(February, 2024)

Bachelor of Science in Philosophy
Course XXIV-1
Department of Linguistics and Philosophy

Qingfeng Li

Michael Andrew Sheldon

SLOAN SCHOOL OF MANAGEMENT

Bachelor of Science in Management
Course XV-1
Sloan School of Management

Alicia Yangda Caichen
Minor in Applied International Studies

Austin James Cox
(February, 2024)

Colin L. Klick
Minor in Statistics and Data Science

Megan Ashlee Lim

Emily Yongxin Shi
Minor in Computer Science
(February, 2024)

Brian Michael Wilson, Jr.

Bachelor of Science in Business Analytics
Course XV-2
Sloan School of Management

Ryan G. Armstrong
Minor in Economics

Gabriel Arruda
Also with a Major in Course VI-14
(February, 2024)

Cher Jiang

Jessica Jimenez

Dejon Kurti
Also with a Major in Course VI-14

Tyler Abdul-Tariq Lawal

Doreen T. Rota

Sari E. Strizik
Also with a Major in Course VI-14

Aaron Yuxin Zhu
Also with a Major in Course VI-2

Bachelor of Science in Finance
Course XV-3
Sloan School of Management

Pamela Dzifa Cudjoe Abede
Minor in Computer Science

Braden J. Barlow

Jonathan S. Berger
Also with a Major in Course VI-14

Elizabeth Bitman
Also with a Major in Course XVIII
(February, 2024)

Christopher L. Carratu
Also with a Major in Course VI-14

Marco Giacomo Cesaratto
Minor in Mathematics

Julia Mingfei Chen
Also with a Major in Course VI-14

Peter Frederick DeTolla

Nora Grace Donnelly
Also with a Major in Course XVIII

Richard Guang
Minor in Statistics and Data Science
(February, 2024)

Bryce David Hancock
Also with a Major in Course XVIII

Michael B. Holcomb

Jessica C. Jin

Kelly Frances Lahart

Andrew C. Merrell

Evelyn Grace Peters

Matthew A. Sardis

Angela Jingyi Su
Also with a Major in Course VI-14

Joshua A. Sweet

SCHOOL OF SCIENCE

Bachelor of Science in Chemistry
Course V
Department of Chemistry

Ali Mohammed A Alasmari

Mohammed H. AlKhurisi
Minor in Design

Shicheng Hu

Ygor Moura

Myles I. Noel
Minor in African and African Diaspora Studies

Angelica D. Phan
Also with a Major in Course XXI-H

Karla A. Ravin

Bachelor of Science in Chemistry and Biology
Course V-7
Department of Chemistry

Peyton Trinity Acoff

Katherine Elizabeth Bell

Heng-Jui Chang
Minor in Biomedical Engineering

Katherine R. Duan

Ana Florescu-Ciobotaru
Also with a Major in Course X-B

Flora W. Fu

Isabela Maria Fuentes
Minor in Science, Technology, and Society

Mudita Goyal
Also with a Major in Course XX
Minor in Economics

Henry J. Hardart
Minor in Brain and Cognitive Sciences

Katherine E. Heslip

Christina Eunji Kim

Jaden Joshua Luo
Also with a Major in Course VIII
Minor in Computer Science

Jessica L. Mann
Minor in Music

Emma D. Martin

Oswaldo A. Martinez

Ananthan Sadagopan

Achilleus H. Savvidis
Also with a Major in Course VIII

Daniel Sharygin

Cholapat Varongchayakul
Also with a Major in Course X-B

Bachelor of Science in Biology
Course VII
Department of Biology

Andrea Onyinyechi Akwiwu

Luke Gustav Anderson
Also with a Major in Course XV-3

Meredith Elise Arterburn
Minor in Finance

William J. Bleyenberg III

Balyn G. Brotheridge

Isabella S. Carlo
Also with a Major in Course IX
Minor in Ancient and Medieval Studies

Sundeep Chakladar
Minor in Science, Technology, and Society

Caitlin N. Doyle
Minor in Linguistics

Victoria Dzieciol

Katherine I. Hobgood

Sruthi Kalavacherla
Minor in Women's and Gender Studies
(February, 2024)

Evan Alexander Kowal
Minor in History

Savannah M. Lawrence
Minor in Women's and Gender Studies

Hanjun Lee

Makenzie Love
(February, 2024)

Anna V. Plank
Also with a Major in Course VI-9
Minor in Biomedical Engineering

Brindha Priya Rathinasabapathi
Minor in Music

Amari Rebolledo-Ledesma

Phoenix M.B. Swartz

Estin Kairos Van Alstine
Minor in Theater Arts

Melody Yu
Also with a Major in Course IX
Minor in Music

Caroline S. Zhang
Minor in Brain and Cognitive Sciences

Rebecca S. Zhang
Minor in Chemistry

Bachelor of Science in Physics
Course VIII
Department of Physics

Omar Abdelghani
Also with a Major in Course XVIII

Joseph A. Alongi
Minor in Mathematics
Minor in Computer Science

Athira Arayath
Also with a Major in Course XVIII

Michael V. Bhopaul
Minor in Mathematics

Berkin Binbas
Also with a Major in Course VI-3

Allison N. Brattley
Also with a Major in Course IX

Sean Chen
Also with a Major in Course VI-3

April Q. Cheng
Minor in Mathematics

Seoyeon Choi
Also with a Major in Course VII
Minor in Mathematics
(February, 2024)

Jade Chongsathapornpong

Jessica Zhang Cohen
Minor in Energy Studies

Abigail M. Colclasure
Also with a Major in Course XII

Hannah Nahid Didehbani

Stephan R. Ducrepin
Minor in Computer Science

Owen M. Dugan

Chirag Falor
Also with a Major in Course VI-4
Minor in Mathematics

Ianá Y.R. Ferguson
Minor in Earth, Atmospheric, and Planetary Sciences
Minor in French

Xinyi Fu

Gosha Geogdzhayev
Minor in Mathematics
Minor in Computer Science

Natalia Goroncy
Minor in Science, Technology, and Society

Subhash C. Kantamneni
Also with a Major in Course VI-2

William Fan Li
Also with a Major in Course VI-3
Minor in Biology

Sebastien Luc Olivier G. Lohier
Also with a Major in Course VI-2

Juan Antonio Luera
Also with a Major in Course VI-2
Minor in Chinese

Joseph Alan McCarty
Also with a Major in Course XVIII

Ryan P. McTigue
Also with a Major in Course XVIII

Obinna Patrick Modilim

Erick Padilla
Also with a Major in Course XVIII

Panupong Phoompuang
Also with a Major in Course VI-14
Minor in Mathematics
Minor in Astronomy

Albert W. Qin
Also with a Major in Course XVIII

Dylan J. Raphael
Also with a Major in Course XVIII

Maya Sachiko Redden

Cory James Romanov

Isabelle Ambre Jeanne Rose

Olivia T. Rosenstein
Minor in French

Ellison Julie Scheuller
Also with a Major in Course XVIII

Nathan J. Sesti
Minor in Computer Science

Jordan W. Sprague

Nicolas Ken Kahiau Tanaka
Also with a Major in Course VI-1

Melbourne Tang
Minor in Biology
Minor in Music

Max J. Tao
Also with a Major in Course VI-2
Minor in Mathematics

Tung X. Tran
Also with a Major in Course XVIII-C

Aidan K. Van Duzer
Also with a Major in Course XXI-G

Chris Viets
Also with a Major in Course VII

Utheri Mureria Wagura
(September, 2023)

Jessica Wang
Also with a Major in Course VI-1
Minor in Mathematics

Charlotte I. Wickert
Also with a Major in Course XXII-ENG
Minor in Music
(See also S.M., Course XXII)

Warit Wijitworasart
Minor in Astronomy

Clara Y. Xu
Also with a Major in Course XXI-S

Bachelor of Science in Brain and Cognitive Sciences

Course IX
Department of Brain and Cognitive Sciences

Ines Escobedo

Vivian Beatriz Garcia Fonseca
Minor in Anthropology

María Guadalupe García-García

Melody Hanyun Guo
Minor in Biology

Jessica SE Han

Jason Ohiowa Li
Also with a Major in Course VI-4

Emmi L. Mills
Minor in Spanish

Benjamin A. Rothaus Barrera

Bachelor of Science in Computation and Cognition

Course VI-9
Department of Brain and Cognitive Sciences in conjunction with the Schwarzman College of Computing

Ronald Alvarez

Nabil V. Baugher

Ashley Marie Benallo

Jessica Buerkour Boye-Doe

Jasmine J. Chen
Minor in Design

Sydney S. Chun

Audrey Yining Cui

Ariadne Maria Dulchinos Marini

Abigail S. Dulski

Megan Marie Eberts

Cynthia X. Fang

Robert Preston Hess
Minor in Design

Ritika Jeloka
(February, 2024)

Andrew W. Jenkins
(See also M.Eng., Course VI-9)

Carol Jiang
Also with a Major in Course XXI-M
Minor in Mathematics

Elaine Jutamulia
Minor in Music Technology

Gloria H. Kang
Minor in Biomedical Engineering

Inori Kawauchiya

Ariba Khan

Abigail Leah Klein

Quinn Patricia Langford
Minor in Linguistics

Eugene K. Lee

Hanjie Liu

Rachel Jueun Park
Minor in Management

Yuting Qin
Also with a Major in Course XVIII
(See also M.Eng., Course VI-9)

Simon Radhakrishnan
Minor in Design

Gustavo Ramirez

Tara S. Sarma

Theodore Schoenfeld

Zoe L. Sheill
(February, 2024)

Nakul Shenoy
Also with a Major in Course XVIII
(February, 2024)

Nicole Zoi Shigiltchoff

Reece Smoyer Shuttleworth
(February, 2024)

Matthew Azariah Soza
(February, 2024)

Bennett L. Stankovits

Amanda Grace Tong

Camille G. Uldry Lavergne
(February, 2024)

Opalina Vetrichelvan
Minor in Biology

Kelly G. Wang

Christopher Z. Wong

Harley B. Yoder II
Minor in Biomedical Engineering

Andrii Zahorodnii

Kristine X. Zheng
Minor in Women's and Gender Studies

Bachelor of Science in Earth, Atmospheric, and Planetary Sciences

Course XII
Department of Earth, Atmospheric, and Planetary Sciences

Phoebe Lin
Also with a Major in Course XVIII
Minor in Music

Rebecca Ann Mastrola

Claire J. McLellan-Cassivi
Also with a Major in Course XVI-ENG
(February, 2024)

Argen Smith
Also with a Major in Course VIII

Bachelor of Science in Mathematics

Course XVIII
Department of Mathematics

Daniel Acosta

Bhavya Kumar B. Agrawalla
Also with a Major in Course VI-4

Evgeniya Artemova
Also with a Major in Course VI-2

Gaurav Arya
Also with a Major in Course VI-2

Mauricio Barba da Costa
Also with a Major in Course VI-4

Sarah Gayle Bentley
Also with a Major in Course VI-4

Joseph A. Camacho

Joanna Y. Cao
Also with a Major in Course VI-14

Sichen Shawn Chao
Also with a Major in Course XV-2

Yiming Chen
Also with a Major in Course VI-3

Emily Cheng
Also with a Major in Course VI-4

Abdellatif Anas Chentouf
Also with a Major in Course VI-4

Jake M. Chuharski
Also with a Major in Course VI-9
Minor in Music

Ryan Conti
Also with a Major in Course VI-3

Akash Das
Also with a Major in Course VI-3
(February, 2024)

Adam Deng
Also with a Major in Course VI-4

Paige Dote

Jonathan Seth Edelman
Also with a Major in Course VI-3
Minor in Chemistry

Ezra J. Erives
Also with a Major in Course VI-3

Ibrahim Suat Evren
Also with a Major in Course VI-14

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

Elijah Oscar Fernández
Minor in Computer Science

Ishan Ganguly
Also with a Major in Course VI-4

Shu Ge
Also with a Major in Course VI-3

Eva L. Goldie

Maks J. Groom

Peter W. Hoffman
Minor in Finance
(February, 2024)

Satya G. Holla
Also with a Major in Course VI-3
Minor in Economics

Anka Hu
Also with a Major in Course VI-9

Daniel Benjamin Hu
Also with a Major in Course VI-3

Michael J. Huang
Also with a Major in Course VI-3
Minor in Economics

Mehrab Sharif Jamee
Also with a Major in Course VI-3
(February, 2024)

Maxwell D. Jiang
Also with a Major in Course VI-3

Tianze Jiang
Also with a Major in Course VI-3

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

Ashley Ke
Also with a Major in Course VI-3

Elizabeth Ke
Also with a Major in Course VI-3

Veronica Khim
Minor in Finance

Lisa Kondrich
Minor in Computer Science

Zoë Kuhlken
Also with a Major in Course VI-2

Shauna Seoyeong Kwag

Stanislaus S. Lacksen
Minor in Finance

Ziyan Lei
Also with a Major in Course VI-4
Minor in Music
Minor in Linguistics

Saba Lepsveridze

Rupert Michael Li
Also with a Major in Course VI-14
Minor in Business Analytics
(See also M.Eng., Course VI-14)

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

Selena Shihui Liu
Minor in Computer Science

Siyu Liu
Also with a Major in Course VI-2

Jeffrey Lu

Yuyuan Luo
Minor in Writing

Zhao Yu Ma
Also with a Major in Course VI-3
Minor in Physics

Yuka Machino
Also with a Major in Course VI-4

Alizaye M. Manigo

Sage T.L. Maxwell

Katherine Evelyn Miner
Minor in Political Science
Minor in Computer Science

Kartikesh Mishra
Also with a Major in Course VI-3

David C. Morgan
Also with a Major in Course XXI-M

Yuru Niu
Minor in Linguistics

Daniel T. Ogbe

Jeffery Opoku-Mensah
Also with a Major in Course VIII
(February, 2024)

Elaine G. Ortiz
Also with a Major in Course XV-1

Katherine LiYue Pan

Mackenzie J. Relihan
Also with a Major in Course XIV-1

Elias G. Rojas Collins
Also with a Major in Course VI-3

Grace M. Rojo
Minor in Literature

Jon F. Rosario
Also with a Major in Course VI-3

Consecrata Maria Rozario
Also with a Major in Course VI-4

Daniel Alejandro Santiago-Alvarez

Semen Savkin
Also with a Major in Course VI-3

Jemma Wynne Schroder
Minor in Computer Science

Jeremy Lawrence Smithline
Also with a Major in Course VI-14
Minor in Statistics and Data Science

Thana Somsirivattana
Also with a Major in Course VI-3
Minor in Economics

Johan J. Soto
Also with a Major in Course XXIV-1

Alexis Katrin Spinetta
Minor in Finance
(February, 2024)

Arnold C. Su
Also with a Major in Course VI-3

Pedro A. Suarez Aguirre
Also with a Major in Course XIV-1

Eric Rui Sun
Also with a Major in Course VIII

Yihang Sun

Chatchanun Suriyaammaranon
Also with a Major in Course VI-14
Minor in Management

Maxwell S. Turner

Edward Wan
Also with a Major in Course VI-3

Frank Y. Wang
Minor in Computer Science

Andrew J. Weinfeld
Also with a Major in Course VI-3

Ryan Corrigan Welch
Also with a Major in Course VI-4

Benjamin P. Wright
Also with a Major in Course VI-4

Benjamin M. Wu
Also with a Major in Course VI-2

Yan Wu
Also with a Major in Course VI-3

Janabel T. Xia

Jingdong Xiang

Yi Xie
Also with a Major in Course VI-4

Alicia Yang
Also with a Major in Course VI-9

Andrew Yao
Also with a Major in Course VI-3

Zi Song Yeoh

Valerie A. Yuen
Also with a Major in Course VI-14

Ethan A. Zahid
Also with a Major in Course VI-3

Jerry J. Zhao
Also with a Major in Course VI-2

Wayne Zhao

Sebastian Zhu
Also with a Major in Course VI-3

Alexis Victoria Zitzmann
Minor in Entrepreneurship & Innovation
Minor in Management

Bachelor of Science in Mathematics with Computer Science

Course XVIII-C
Department of Mathematics

Brian C. Ahaneku

Yazan Almajnouni

Carlos Andrés Alvarado Álvarez

Esha Bhatia

Milo J. Cress
(February, 2024)

Jakob de Raaij
Minor in Art, Culture and Technology

Heidi Alba Durresi
Also with a Major in Course XXIV-2

Jacob H. Furfine
Minor in Ancient and Medieval Studies
(February, 2024)

Kennan F. Gumbs
Minor in Philosophy

James Cirrus Hawkes

Sasha Konovalenko

Danny Mittal

Bryant K. Ndongmo

Christopher J. Pak

Teague Avarie Rice

Daniel Villagran
Also with a Major in Course XXI-M

Sarah Wei
Minor in Business Analytics

Sophie Chenyi Yang
Minor in Economics

Cathy Ann Yung
Minor in Business Analytics
(February, 2024)

SCHOOL OF ARCHITECTURE AND PLANNING

Master of Architecture
Course IV
Department of Architecture

Christopher Hassan Allen, Jr.
(February, 2024)
A Souvenir for the Land of Pagodas

Caroline Amstutz
(February, 2024)
Frictitious Matters

Justin Rene Brazier
(February, 2024)
Archi-Culture or Agri-Tecture: The Garden in The Machine

James Vincent Brice
(See also S.M., Course I)
Wave Mechanics in Constructed Oyster Reefs and the Design of Nature-Based Coastal Adaptation

Bella Carmelita Carriker
(February, 2024)
Fragments of Home: Domestic Businesswomen and Collective Motherhood

Aleksy Robert Dojnow
(February, 2024)
Careful Design: Using Multi-Modal Data and Virtual Reality to Bridge the Subjectivity Gap in Architectural Space-Making

Inge Geraldine Donovan
(See also S.M.Building Tech., Course IV)
The Matter of the Hold: Housing Futures and the Paradigm of the Ship (with D. Pankhurst)

Lauren Taylor Gideonse
(February, 2024)
Love in the Fast Lane: Not-so-New Models for American Stewardship and Preservation

Adriana Giorgis
(February, 2024)
How Old is Now?

William DeBruhl Marshall, Jr.
(February, 2024)
Land Material Geometry: Spline Construction with Invasive Species in a Time of Water Crisis in the Colorado River Basin

Sahil Dharam Mohan
(February, 2024)
Bleeding Details

David Keith Pankhurst
The Matter of the Hold: Housing Futures and the Paradigm of the Ship (with I. G. Donovan)

Ellen Marie Reinhard
(February, 2024)
Changing the Course: Reimagining Switzerland's Aging Nuclear Infrastructure

Katherine Molly Shulman Rotman
(February, 2024)
Destroy Your School: Building with Kids to Reimagine Learning

Jenna Ashley Schnitzler
(See also S.M.Building Tech., Course IV)
Tectonics of the Semi-Permanent: Reassembling Fit-Out Architecture

Amanda Adaku Ugorji
(February, 2024)
Not Allowed: Practicing Process

Yiqing Wang
(February, 2024)
Nothing Unwanted: Prototyping Matter Out of Place

Susan Williams
(February, 2024)
Soft at the Joints

Yuting Zeng
Matter Mind Body Making

Calvin Zhong
(See also M.C.P., Course XI)
A Jail Is Not Social Housing: Making New Grounds for Chinatown

Master of Science in Architecture Studies
Course IV
Department of Architecture

Merve Akdogan
Gender Glitch Matrix: Queer Aesthetics and the Politics of Error in Digital Media

Hajar Alrifai
Echoes from the Stone: Reframing Preservation in Syria through Haurani Folklore

Ghida Jamal Anouti
Between City and Self: Reading Beirut in Mohamed Soueid's Tango of Yearning

Christina Dimitri Battikha
Salt to Scale: The Seasoning of Buildings

Ekin Bilal
Office of Back of House

Adam Thomas Burke
In Tension: Computational Exploration of the Design Space of Tensile Network Structures

Maria Gabriela Carucci Alvarez
When the Earth Breathes: An Ontology of Volcanic Urbanism

Cheng-Hsin Chan
Damp Skin: Portraits of Taiwanese Domesticity, Resilience, and Otherness

Juan Manuel Chávez Fernández del Busto
The Cycles of aMa*í*z*ing* Things

Chi-Li Cheng
Alive Scene: Participatory Multimodal AI Framework for Collective Narratives in Dynamic 3D Scene

Zoe De Simone
(See also S.M., Course VI)
Developing Frameworks for an Equitable Future: from Building Decarbonization to Generative Modeling

Laura-India Garinois
Designing (with) Trees: Active Agents in Architectural Production

Crystal Ling Griggs
Mapping Wildness: Simulating Post-Extraction Wildland Regeneration

Nebyu Samuel Haile
Low Cost Masonry for the Design of Barrel-Vaulted Flooring Systems

Mahwish Khalil
Alternate Imaginaries for the Kinara: River Ravi's Edge as a Threshold

Amanda Rose Kirkeby
How Much Does it Really Cost?: A Dynamic Approach to Building Retrofit Costs for Decarbonization Pathways

Dhwani Mehta
Common Grounds in Shared Waters: Integrated Design for Negotiating Equitable Development in Gosabara-Mokarsagar

Seyedeh Boshra Moossavi
(September, 2023)
The Idea of Heritage in Nineteenth-Century Iran: Nādir Mīrzā's Account on Tabriz

Tamar M. Ofer
(September, 2023)
(See also S.M., Real Estate Development)
The Collective Speculators' Playbook: Subversive Market Forms for Common Wealth

Selin Sahin
(September, 2023)
Non-Peripheral: Re-Thinking the Organized Industrial Zone

Karl-Johan Ingerslev Sørensen
(See also S.M., Course I)
From Waste to Structure: A Deep Reinforcement Learning Approach for Circular Design

Yi-Ern Samuel Tan
The Technical Discourses of Miyake Design Studio: Episodes in the Interpretation of Cloth, 1995-2007

Demircan Taş
(See also S.M., Course VI)
Parametric Paintover: Generating Design Models via Image Encoders and Latent Trajectories

Hon Ting Wong
Excercising a Haunted City

Wangli Yi
Data-Driven Home Workspace Design: Interactive DIY Platform Mediating the User and Expert Literature

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

Zhanyi Chen
Stories of the Sky

Aubrie Rose Manion James
What is Ecology?

Ashmi Mridul
(September, 2023)
Filling the Gaps - Exploring the Scope of Arts-Based Education in Jodhpur

Mrinalini Singha
Disrupting Monocultural Tendencies through Multimodal Montage

Master of Science in Building Technology
Course IV
Department of Architecture

Inge Geraldine Donovan
(See also M. Arch., Course IV)
From Liquid to Stone: Reimagining the Design of Concrete Structures for Reuse (with J. Schnitzler)

Svenja Vanessa Herb
Beyond the Bioclimatic Chart: An Automated Simulation-Based Method for Assessing Natural Ventilation and Passive Design Potential

Zoe Emmanuelle Le Hong
Accelerating Urban Building Energy Modeling (with S. Wolk)

Lauren Christine Moore
Pathways to Net Zero: Building Retrofit Financing Strategies for Low-Income Homeowners

Jenna Ashley Schnitzler
(See also M. Arch., Course IV)
From Liquid to Stone: Reimagining the Design of Concrete Structures for Reuse (with I. G. Donovan)

Samuel Zackson Wolk
Accelerating Urban Building Energy Modeling (with Z. Le Hong)

Pitipat Wongsittikan
Automated Engineering Design for Reusable Concrete Building Structures

Master in City Planning
Course XI
Department of Urban Studies and Planning

Surbhi Agrawal
(September, 2023)
The Hidden Network: Addressing Digital Equity Through Meaningful Connectivity in Urban India

Samantha Rose Aibinder
Seeding Trust, Sustaining Equity: Funding and Financing Relationships in the Greater Boston Community Land Trust Network

Anastasia Aizman
A Fifty Million Dollar Piece of Dirt: Somerville as a Case Study in Development

Tracy Joseph Allen, Jr.
(See also M.B.A., Course XV)
Black Collective Memory as Economic Development Practice: Resistance and Renaissance in Louisiana's River Parishes

Natasha Ansari
(September, 2023)
Planning for the Margins: Mapping Conceptual Implications of Profound Intellectual Disability and Informality Through Slovo Park, Johannesburg

Gabriel C. Barrett
Boston Night Owl: A Framework for Introducing Overnight Bus Service That Can Close Significant Spatiotemporal Gaps in Greater Boston's Transit System

Kimberly Stephanie Becerril
Deep Decarbonization of California's Transportation Sector: A Comparative Analysis of Aviation, Electric Vehicles, and High-Speed Rail using the ASIF Framework

David Berón Echavarría
On Power: How Colombia's Oil Company Can Support the Country's Energy Transition

Raul Manuel Briceno Brignole
(See also M.B.A., Course XV)
The Market for Food: Proposing New Financial Products to Reduce the Qualitative Housing Deficit among Female Led Houses in Peru

Bennett Capozzi
Evolution of a Useful Place: The Gas Station in America

Anushree Chaudhuri
Perspectives on Power: Characterizing Public Perceptions Towards Large-Scale Renewable Energy Development in the United States

Yu Jing Chen
(September, 2023)
Growth for Whom? Sacrifice of Chicago's Chinatown Then and Now

Austin Kristopher Cole
(See also M.B.A., Course XV)
Exploring practices of translocal grassroots economies: Planning as a tool of liberation for Africans in the Americas

Annabel Claire Consilvio
Encouraging Reuse in Rural Italy: A Case Study Implementing New Frameworks to Collect Local Data and Understand Feasible Reprogramming Strategies in Guadagnolo

Austin Cameron Davis
Tangled Deeds, Crime, and Land Use: A Geospatial Look into West Philadelphia Displacement

Fabio Marcel de Castro Filho
Jaywalking Index: Visual and Socio-Demographic Patterns in London

Lia Yong-Zhen Downing
Building Blocks of a Just Transition: Green Banks and Residential Building Decarbonization in New York

Eli Zachary Epperson
Planning for the Growth of the Life Sciences in Philadelphia: Workforce and the Bellwether District

Emily Gao Fang
Retrofitting Affordable Multifamily Housing: A Survey of Landlords in Cincinnati, Ohio

Émilie Grace Flamme
Navigating Shared Vulnerabilities: Climate Adaptation on the Split Island of Saint Martin

Lakshmi Chaitanya Reddy Gangamreddypalli
(September, 2023)
Municipal Bonds for Financing India's Urban Infrastructure: The Case of Indore

Patricia Michelle Garcia Iruegas
How Can Cities Effectively Address Gun Violence? Exploring Political Leadership and Organizational Management

Juanita Halim
(September, 2023)
Re-Thinking Urban Retail: The Design and Planning of "Dark Stores" and Public Spaces, Case Study: Manhattan, New York

Journee Akili Harris
Redignifying LaVilla: Visualizing and Recentering Black Epistemologies in the Revitalization of LaVilla, Jacksonville, Florida

Emma Marie Heneine
Cooking Together: Form & Function of Community Kitchens as Urban "Third Places" Promoting Community Wellbeing

Marco Leonardo Javier Herndon Melgarejo
Salvemos Barranco: Contested Visions for the City and Transportation in Barranco, Lima, Peru

Melissa D. Hill
The Imperfect Question of Stadium Development: A Typology of Contemporary Development and Strategies for a Sustainable Future

David Suk Hong
(September, 2023)
Age-Inclusive Design Framework for On-Demand, Shared Autonomous Vehicles

Rebecca Helen Houston-Read
Sustainable Homes for All: Designing a Clean Energy Incentive for Boston's Section 8 HCV Landlords to Improve Tenant Quality of Life

McKenzie Ross Humann
(See also S.M., Transportation)
From Pilots to Stable Services: Documenting the Rise and Diversity of Microtransit in the U.S.

Dyanna Michelle Jaye
A New Era for the Old Dominion: Strategies for the Virginia State Government to Lead an Equitable & Ambitious Energy Transition

Yabework Abebe Kifetew
Pathways to Equity: Mapping the Impacts of Nairobi's Urban Form on Pedestrian Mobility

MinJi Kim
Shaping the Future Amid Decline: Integrative Strategies for Aging Koreans and Migrant Workers in South Korea's Shrinking Regions

Joseph Landis
(February, 2024)
Examining the Introduction of Marketplace Dynamics into the United States' Refugee Housing System: Challenges, Successes, and Considerations for Scale

Ana Amelia Letelier
The Story of a Towel: A Comprehensive Approach to Disaster Preparedness: Enhancing Inclusivity and Sustainability in Chile's Emergency Disaster Kits

Trinh Pham Hai Linh
From Factories to Classrooms: The Influence of FDI-Led Industrialization on Educational and Vocational Training Infrastructure in Binh Duong Province, Vietnam

Francisco Emilio Mackin-Plankey
Designing a Home Share Program for Asylum Seeking Migrants in New York City

Soad Ali Mana
(September, 2023)
Virtual Sheriff Sales: Contested Narratives on Tax Sales in Philadelphia, PA

Katelyn Rose McVay
(February, 2024)
Climate Change and Aging: Analyzing the Disproportionate Health and Socioeconomic Vulnerabilities of Older Adults in Relation to the Climate Crisis in the U.S.

Mariama N'Diaye
(See also M.B.A., Course XV)
The Civic Design Room: Conversations on What It Looks Like To Operationalize Design in Government? With Community, Within Government, and Within Your Team

Anisha Patil Nakagawa
(February, 2024)
Understanding Climate Change through a Community Definition of Resilience: Qualitative Analysis of Interviews and Implications for Practice

Jason Mick Ng
(See also S.M., Real Estate Development)
Claiming Identity through Space: LGBTQ+ Community Building via Commercial Development in West Hollywood and Palm Springs

Nineveh O'Connell
Wildly Inaccessible: Reaching Public Lands via Public Transit

Hazel Backus O'Neil
Pa'ashi Park: Resiliency, Restoration, and Reparative Planning for California's Tulare Lake Basin

Sung Eun Sally Oh
Organized Labor & Just Transition: Examination of the Role of Organized Labor in Advancing Equity through Clean Energy Investments

Elyse Lenore Oliver
Community Transportation Acts Archive

Oussama Ouadani
An Agroecological Response to the Militarized Urban in Vieques, Puerto Rico

Nolen Phya
The Mirror Project: A Portrait of Urban Inequality

Muhammad Rizki Rayani Ramadani
Navigating Vulnerability: Harmonizing Disaster Risk Reduction and Management with Socio-Spatial Construction of Risk in Post-Tsunami Aceh

Tiandra M. Ray
Urban Wilderness, el Campo en la Ciudad: Liberatory Land Practices and Gardens as Portals in the Puerto Rican Diaspora

Eduardo Rosario
(See also M.B.A., Course XV)
Balancing Purpose and Growth: Evaluating Community Land Trusts (CLTs) as an Organizational Model and the Imperative for Strategic Management

Ponpat Sahacharoenwat
Understanding the Complex Dynamics of Regenerating Urban Vacancy: A Case Study of Songkhla, Thailand

Victoria Daniela Santiago Araiza
Local Autonomy and the Value Capture Debate in Mexico City: A Land-Based Analysis Towards a Decade of Political Reform

Leonard Robert Schrage
Visual AI for Sustainable Urban Development: Computer Vision and Machine Learning Applications for Climate and Social Impact

Daud Shad
Seeking Relief in the City: An Examination of Planning in Karachi to Support Internally Displaced People after the 2022 Floods in Pakistan

Anushka Vijay Shahdadpuri
Building Coastal City Resilience and Extreme Heat Action in Zanzibar, Tanzania through Multi-Hazard Risk Assessment (MHRA)

Misha Shahid
Confronting Glacial Hazards: A Study of Disaster Impact and Community Adaptation to Glacial Lake Outburst Floods in Hunza, Pakistan

Hannah Nicole Shumway
Databases for Healing and Justice: Co-Design with a Grassroots, Indigenous Organization

Sarah Joella Simon
(February, 2024)
PFAS and the Future of Rural Land

Melissa Qingqing Teng
(September, 2023)
The Urgency of Presence: Designing Healing Community Spaces After Displacement

Bethlehem Fisseha Tesfaye
Beyond Rural to Urban: Examining Urbanization and Quality of Life in Hawassa, Ethiopia

Eva A. Then
Investigating the Impacts of Boston's Fare Free Bus Route on Urban Mobility Behavior: A Framework for Causal Analysis

Diamond Nichole Christine Thompson
Klondike Memory Project: Race, Counter-Memory, and Planning Processes

Yuvika Tolani
Making Place for Arts & Culture: How Arts & Culture Play into Interdisciplinary Strategies for Community Development without Displacement

Keili Alana Tucker
Step by Step: Suburban Active Transportation Planning in Spring Hill, Tennessee

Nwakaego Uzoh
(See also M.B.A., Course XV)
How Post-Pandemic Public Transit Journeys Can Inform Employers' Return to Office Strategies in Boston, MA and Washington, DC

Sanne Eva Wright
Whales & Wind: A Case Study on Misinformation About Renewable Energy Development

Keiko Yabe
Reflective Planning and Design for Community Resilience: A Case Study in a Vulnerable and Shrinking Japanese Village

Elisha Rose Zhao
Home, Again: Recommendations for Strengthening Social and Financial Post-Buyout Outcomes of the New Jersey Blue Acres Program

Calvin Zhong
(See also M. Arch., Course IV)
A Jail is Not Social Housing: Making New Grounds for Chinatown

Master of Science in Media Arts and Sciences

Program in Media Arts and Sciences

Chelsi Alise Cocking
(September, 2023)
Illuminate

Aniruddha Ghosh
Structural Wireless Delamination Sensor

Lingdong Huang
(September, 2023)
Drawing as Programming Language

Kyuho Jang
Development and Evaluation of a Potentially Wearable Device for Circulating Cell Monitoring

Ila Krishna Kumar
(September, 2023)
Fostering Well-Being: Designing Technology to Improve the Psychological Well-Being of Foster-Involved Youth

Naana Darkwaa Obeng-Marnu
Translations: Designing Restorative Listening Spaces in the Age of Social Fragmentation

Preet Rajeshkumar Patel
Peripheral Nervous System Modulation with Wireless Cellular Sized Freestanding Injectable Devices

Leonard Francis Vibbi
(September, 2023)
Human Code Exchange(HCX): A Community-Value-Driven Framework for Data Governance in Humanitarian Crises

Thais Cavalcanti Xisto
(September, 2023)
Playful Occupations: Mobile Creative Coding for Critical Consciousness

Wazeer Deen Zulfikar
AI Interfaces for Augmenting Episodic Memory

Master of Science in Media Technology

Program in Media Arts and Sciences

Maxwell Kwadwo Addae
(September, 2023)
VocalCords: Exploring Tactile Interaction & Performance with the Singing Voice

Cecilé Elyse Sadler
(September, 2023)
Fugitive Spaces for Cultivating Creativity: A Framework for Value-Centered Learning Environments

Master of Science in Real Estate Development

Center for Real Estate Development

Christopher
(February, 2024)
Negotiating ROI (Return on Investment) for ROI (Return on Impact): A Pre-Feasibility Study of Socio-Eco Nature Based Resort Development in Eastern Indonesia

Yoonseo Cha
(February, 2024)
Real Estate Strategies for Mission-Driven Organizations

Rohit Singh Chauhan
(February, 2024)
Applications of Generative AI in Real Estate Industry

Gautham Somana Chotangada
(February, 2024)
Examination of Airbnb Demand and Supply in India

William George Coen II
(September, 2023)
Understanding Developer and Lending Risk Associated with Offsite Construction in Various Different Housing Markets

Nick Kelly Dessalines
(September, 2023)
The Future of Office Space

Yizhuo Ding
(February, 2024)
The Performance of Real Estate Investment Strategy Across Multiple Cycles: A Comparison of Core and Non-Core Strategies Based on A New Dataset and Industry Interviews

Mamoun El Alaoui El Abdallaoui
Terra Firma: Navigating Morocco's Built Environment & Terrain

Julio E. Flores Jimenez
(February, 2024)
Unveiling the Dynamics of Inflation in Housing Rent

Nayeon Hong
(February, 2024)
Elsewhere in New York City: Seeking Opportunities for Office Conversion

Khanachai Kittisorayut
(February, 2024)
Real Estate Redevelopment Framework: Quantitative Analysis of Adaptive Reuse Strategies

Sang Hyup Lee
(February, 2024)
Navigating the Storms of Distressed Ventures: South Korean Investments in US Office Real Estate

Mingyao Li
(February, 2024)
Distressed Real Estate Investment Strategy in North America

Carlos Augusto Mejia Martinez
(September, 2023)
Flooded with Possibilities: Analyzing Flood Insurance as a Catalyst for Development in Southeast Florida

Andrew John Nader
(February, 2024)
Housing in Massachusetts

Jason Mick Ng
(See also M.C.P., Course XI)
Claiming Identity Through Space: LGBTQ+ Community Building via Commercial Development in West Hollywood and Palm Springs

Tamar M. Ofer
(September, 2023)
(See also S.M.Arch.S., Course IV)
The Collective Speculators' Playbook: Subversive Market Forms for Common Wealth

Joon Tae Park
(September, 2023)
Shared Equity Homeownership in Korea: Analysis of the First Public Programs

Clemens Frederic Reimer
(September, 2023)
Analysis of Acquirer Abnormal Returns in Listed European Real Estate M&A Transactions

Yueqi Sun
(February, 2024)
Top Retailers in the United States: A Changing Landscape of Space Demand in a Post-COVID Era

Shao Lan Wang
Charting A Course Through Uncharted Terrain: Seeking Opportunities in the U.S. Real Estate Private Debt During Challenging Times

Tsung-Hsuan Wu
(February, 2024)
Real Estate Performance and Business Cycles

Ben Xu
(February, 2024)
Solar Roof Monetization in US Industrial Real Estate

Master of Science (without specification of field)

Nicole Bakker
Med. Arts & Sciences
Material Recovery Potential from Solar Photovoltaics: Predictive Modeling and Characterization to Advance the Circular Economy

Gauri Gupta
Med. Arts & Sciences
Unlocking Collective Intelligence in Decentralized AI

Samantha Gutierrez Arango
Med. Arts & Sciences
Force Dynamics of the Rat Lateral Gastrocnemius Muscle After Undergoing Sensory Protection

Charles Jiali Lu
Med. Arts & Sciences
Decentralized Data Markets

Nazish Naeem
Med. Arts & Sciences
(September, 2023)
Investigations into Ultra-Low-Power Underwater Imaging

Simeon Ivanov Radev
Med. Arts & Sciences
The Prime Factorization of Proteins

Ikra Iftekhar Shuvo
Med. Arts & Sciences
(September, 2023)
Microfabrication and Characterization of a New Box-Shaped High Frequency (7.5 MHz) Low Aperture 2D Phased Ultrasound Transducer Array

Siddharth Somasundaram
Med. Arts & Sciences
Mobile Multi-Bounce LiDAR

Boyu Zhang
Med. Arts & Sciences
(September, 2023)
Circadian and Multi-day Rhythms in Generalized Tonic-Clonic Seizure: A Probabilistic Approach

Lige Zhang
Med. Arts & Sciences
Tools for Mapping the Links Between Stimuli, Affective States, and Behavior through Whole-Brain Imaging in Zebrafish Larvae

SCHWARZMAN COLLEGE OF COMPUTING

Master of Science in Computational Science and Engineering

Program in Computational Science and Engineering

Utkarsh
Automating Heterogeneous Parallelism in Numerical Differential Equations

Meshal Abdulrahman S Alharbi
(See also S.M., Course VI)
Sample Efficient Reinforcement Learning with Partial Dynamics Knowledge

Noor Almazroa
(September, 2023)
Assessing Transit Oriented Development Using Satellite Imagery: Riyadh vs. Phoenix

Demi Lin Fang
(See also Ph.D., Course IV)
Informing Decision-Making in Single-Objective, Mixed-Variable Design Problems

Yuliia Orlova
(September, 2023)
Gradient-Based Optimization of ReaxFF Parameters Using Pytorch for the Study of Silica Precipitation

Christopher Terrence Quinn
(September, 2023)
A Lagrangian, Discontinuous-Galerkin Material Response Solver for the Analysis of Ablative Thermal Protection Systems

Aaditya V. Rau
Quantification of Elastic Incompatibilities at Triple Junctions Via Physics-Based Surrogate Models

Jaya Manideep Rebbagondla
(February, 2024)
Neural Implicit Representations for Engineering Design

Alexander Zhong Wang
Structure-Guided in Silico Design of RNA Aptamers and Ligands

Master of Science in Social and Engineering Systems

Program in Data, Systems, and Society

Xinyi Han
A Causal Framework to Evaluate Racial Bias in Law Enforcement Systems

Master of Science in Technology and Policy

Institute for Data, Systems, & Society

Alanoud Omar Alhakbani
Battery Blueprint: Saudi Arabia's Strategic Foray into the Battery Value Chain

Bhavani Ananthabhotla
(September, 2023)
Impact of Affirmative Fair Housing Marketing Plan Regulations on Experienced Residential and Neighborhood Diversity Following Tenant Selection

Layla S. Araiinejad
The Techno-Economic Analysis of Deuterium-Tritium Fusion Power Plants: An Assessment of the Economic and Social Implications Associated Deployment

Les Gabriel Armstrong
(See also S.M., Course VI)
Modeling the Impact of the Inflation Reduction Act and Hydrogen Storage in Salt Caverns in the Mid-Atlantic United States

Lauren Jennifer Blanks
An Investigation into Novel Aluminum Fuel for Expeditionary Power Applications

Eunseo Choi
(February, 2024)
(See also S.M., Course VI)
When, Who, How (Not) to Imitate? The Role of Imitation in Collective Intelligence, and Its Implications on the Design of Socio-Technical Systems

Christian Earl Cmehil-Warn
(See also S.M., Course VI)
Hollywood Workers vs Tech: In Theory and in the News

Adrien Concordel
Securing the Future: US Policy Perspectives for Critical Materials

Taylor Lynn Curtis
Documentation as a Tool for Algorithmic Accountability

Aniruddha Suhas Deshpande
(September, 2023)
(See also S.M., Course VI)
Machine Learning for Modeling and Control of a Packaging Manufacturing Process

Luc Marcel Marc Gendre
Uniting Expertise in International Development: Rethinking Decision-Support Technologies for Inclusive Stakeholder Engagement

Michael Anthony Giovanniello
Strategies for Electricity Procurement to Achieve Zero Emissions

Kailin Graham
(February, 2024)
(See also S.M., Course VI)
Doing the Dirty Work: Analyzing the Distribution of Employment Vulnerability to the Energy Transition Through Employment Carbon Footprints

Dansil Lynnee Green
In-Space Assembly of a Remote Sensing CubeSat for Rapid Disaster Response

Lan Linh Hà
(See also S.M., Course VI)
Empowering Energy Conservation: Low-Cost Interventions for Commercial and Residential Settings

Peter John Heller
Assessing United States Energy Poverty Policy: Regulatory Design Alternatives and Resource Allocation

Courtney Regina Kirkpatrick
(See also S.M., Course XVI)
A Technical and Policy Needs Analysis for Space Traffic Management of Low Lunar Orbit

Benjamin Bernard Lewis
Drug Policy as Public Health Policy

Beichen Lyu
(September, 2023)
Regulatory Benchmarking by Machine Learning: The Case of Climate Resilience in Electric Utilities

Rameen Hayat Malik
Barriers and Opportunities for Building Responsible Nickel to Electric Vehicle Supply Chains in Indonesia

Christopher Coleman Maynard
Understanding the Past, Present, and Future of Protein Security

Mrigi Munjal
(See also S.M., Course III)
Strengthening Value Chains for Developing and Deploying Batteries in the Global South

Johnattan H. Ontiveros
Contractor Learning and Home Energy Efficiency in Heat Pump Installations

Serena Naresh Patel
(February, 2024)
(See also S.M., Course VI)
Coal Retirement Strategies in India: Repurposing Coal Plants into Thermal Energy Storage

Mahmoud M. Ramadan
(September, 2023)
(See also S.M., Course II)
Methodology for Pyrolysis-Induced Thermal Runaway Analysis in Li-ion Batteries

Deepika Raman
Deriving Community-Relevant Axes/ Attributes for LM Alignment

Edgar Ramírez Sánchez
(See also S.M., Course VI)
Learning Surrogates for Diverse Vehicle Emission Models

Abigail Marie Randall
The Policy, People, and Place Impacts of Mining for the Clean Energy Transition in the US

Jorge Isaac Sandoval Sandoval
(September, 2023)
Targeting the Innovation Pipeline in Emergent Technology Ecosystems: The Case of Government Interventions in Quantum 2.0 Technologies

Morgan Andrew Santoni-Colvin
(September, 2023)
The Power-Gas Demand Impacts and Regulatory Implications for the Future of Gas Systems Under the Electrification of Space Heating in Cold Climates

Youssef Hassan Sayed Shaker
(February, 2024)
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Multi-Vector Energy Systems Analysis for Low-Carbon Power and Transportation

Paul Pierre Marie Sizaire
(September, 2023)
The Procurement of Low Carbon Hydrogen in Germany and the United States

Prajna Vinay Soni
(See also S.M., Course VI)
Addressing Misalignment in Language Model Deployments through Context-Specific Evaluations

Graham Matthew Turk
Designing Electricity Distribution Network Tariffs for Beneficial Electrification

Varsha Vaidyanath
Benchmarking Pavement Environmental Performance Using Data-Driven Modeling and Policy

Christopher B. Womack
(February, 2024)
(See also S.M., Course XVI)
Development and Stakeholder-Informed Evaluaiton of Global Climate Temperature Response Functions

Philipp Zimmer
(February, 2024)
(See also S.M., Course VI)
Advancing Anticipatory Action in Humanitarian Aid and Development Using Natural Language Processing

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Anne-Sixtine Harlin
The Garabit Viaduct: A Historical and Structural Study

Malo Pierre Jean Lahogue
Resiliency Oriented Scenario Generation Framework for Natural Gas Infrastructure

Catherine Suet-Ching Lu
Soil Moisture-Based Drought Monitoring Using Remote Sensing over Africa

Katherine Pamela Moir
Overturning of No-Tension Towers

Jacob Alexander Morgan
Evaluation of Deep Learning Algorithms in Predicting Seismic Response of a Reinforced Concrete Structure

Ines Ortea Varela
Exploring the Mechanical Behavior of a Traditional Japanese Joint for Flexible Structural Design

Jad Raad
Microneedles for Easier Fish Skin Penetration and Longer Attachment

Jennifer Lin Schug
Tradeoffs Between Aboveground and Soil Carbon Accumulation Following Forestation

Antony Johan Sutanto
Cracking Common Notions Relating Egg Strength to Impact Orientation

Bo Junior Tignol
Effect of Turbine Motion on Floating Offshore Wind Turbine Aerodynamics

Raphaël Trézarieu
Farm-Scale Water Storage in Morocco: Low-Carbon Design with Parametric FEA Optimization

Sydney Caitlyn Wickman
Estimation of County-Level Evapotranspiration and Irrigation Using High-Resolution Planet Satellite Data

Ruth Hodin Wilson
The Structure of the Registry Hall at Ellis Island

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Alexander Adekunle Adelabu
(See also M.B.A., Course XV)
Improving Efficiency in Lubricant Logistics: A RelaDyne Case Study

Siddhant Agrawal
(See also M.B.A., Course XV)
Digital Twin-Driven Supply Chain Enhancement to Support Direct-to-Consumer Growth

Faisal Ibrahim Alnasser
(September, 2023)
Tracking Dust Plumes and Identifying Source Areas Using Spatiotemporal Clustering of Remote Sensing Data

Shivam Bhakta
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Sustainability Analytics - Lowering Emissions With Operational Efficiency

James Vincent Brice
(See also M. Arch., Course IV)
Wave Mechanics in Constructed Oyster Reefs and the Design of Nature-Based Coastal Adaptation

Rebecca Lyn Cohen
(See also M.B.A., Course XV)
Oil & Gas Regional Operations Electrification Estimation

Jack Zhou Easley
(See also M.B.A., Course XV)
Engineering Strategy for Reshoring

Thomas Henzel
Mechanical Behavior and Interfacial Failure of Adhesive Soft Solids under Torsion

Cameron Thomas Gerald Hoffman
(See also M.B.A., Course XV)
Modeling System Efficiency in Mixed-Model Assembly Lines

Eve Rachel Meltzer
(February, 2024)
A Microscale Analysis of Millimeter-Wave Induced Vitrified Basalt for Use in Enhanced Geothermal Energy Systems

Mark Bryant Membreno
(See also M.B.A., Course XV)
Price Elasticity of Air Travel Demand Using Econometric and Machine Learning

Yanghan Qi
(See also M.B.A., Course XV)
Building Inventory Simulations for High Velocity Garment Retail Stores

Sierra Nicole Rosenzweig
(See also M.B.A., Course XV)
Greenhouse Gas Optimization Across a Multi-Echelon Manufacturing and Distribution Network

Patric Ryser
(February, 2024)
Sensitivity of Precipitation to Land-Use Changes in a Regional Climate Model of West Africa

Gillian Lee Schiffer
Embedding Engineering Intuition into Computational Design through Interactive Topology Optimization

Stéphanie Emmanuelle Sévère
(See also M.B.A., Course XV)
Creating the Warehouse of the Future

Karl-Johan Ingerslev Sørensen
(See also S.M.Arch.S., Course IV)
From Waste to Structure: A Deep Reinforcement Learning Approach for Circular Design

Sajiree Vivek Vaidya
(See also M.B.A., Course XV)
Data Roadmap for Last Mile Sustainability

Carlos David Vela González
(See also M.B.A., Course XV)
Resilient by Design: A Supply Chain Digitalization Journey

Adam Donald Vignaroli
(See also M.B.A., Course XV)
Establishing Inventory Maturity in a Make-To-Order Manufacturing Environment

Athikom Wanichkul
Structure Function Relation of Porous 2D Material via SGCMC Simulation and Statistical Models

Daniel Thomas Willette
(See also M.B.A., Course XV)
Paths to Achieving Scope 1 Carbon Neutrality in Building Utilities

Rong Yao
(See also M.B.A., Course XV)
Delivery Estimate Accuracy: Understanding and Reducing Virtual-Physical Mismatches and Missorts in Fulfillment Centers

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Hadeel Ayman Abdo
(February, 2024)
Design and Development of a Mobile Motion Capture Suite for Advancing Technology Adoption

Cheng Chang
(September, 2023)
Enhancing the Accessibility and Usability of Motion Capture Technology: Design and Development of Indoor MoCap Hardware System

Sophia Cheung
(September, 2023)
Machine Learning Methods for Automated Macro-Inspection and Improved Defect Identification in Semiconductor Manufacturing

Vineeth Gowra
(September, 2023)
Optimization of Throughput in Sheet Metal Manufacturing by Tuning the Sheet Metal Nesting Strategy Based on Sheet Utilization and Downstream Part Handling Costs

Somesh Sunil Jaiswal
Enhancing Engineering Education: Integration of the Desktop Fiber Extrusion Device (FrED) for Hands-On Learning in Smart Manufacturing

Mingyuan Li
(February, 2024)
(See also S.M., Course VI)
Process Optimization and Cost Analysis of Electrochemical Micromachining for Volume Manufacturing

James Chandler Liggett
(September, 2023)
Cost Optimization in Sheet Metal Manufacturing by Tuning the Sheet Metal Nesting Strategy Based on Sheet Utilization and Downstream Part Handling Costs

Pierre Lonni
(February, 2024)
From Lab to Life: Bridging Gaps in Motion Capture for Public Accessibility through Integrated Hardware and Software Solutions

Keeghan Jayden Patrick
(February, 2024)
A Machine Learning Approach to Improve Diameter Control in Desktop Fiber Extrusion Processes

Gazi Sadman Sakib
Mechanical Design and Learned Control System Development of Fiber Extrusion Device on Industrial Programmable Logic Controller (PLC) Platform

Jonathan A. Sampson
(September, 2023)
Improving Macroscale Defect Detection in Semiconductor Manufacturing Using Automated Inspection with Convolutional Neural Networks

Gary Sefah
(September, 2023)
Low-Cost Fiber Extrusion Device for Educational Purposes: Redesign, Manufacture, and Computer Vision Integration

John Timothy Waterworth
(September, 2023)
Deep Learning for Macroscale Defect Detection in Semiconductor Manufacturing

Wenhao Xu
(February, 2024)
Development and Production of Affordable Desktop Fiber Extrusion Devices (FrED) for Educational Purposes

Yutong Zhang
(February, 2024)
Development of Process Control Framework Incorporating Deep Reinforcement Learning for Desktop Fiber Extrusion Device via PLC Implementation

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Marcelo Oliveira Aguiar
(See also M.B.A., Course XV)
Economic Comparison of Solar Racking Options to Decarbonize Florida Power & Light's System

Asia Mon'a Allison
(See also Naval E., Course II)
Design and Modeling of Offshore Nuclear Platform Fuel and Transfer System

Cathleen Arase
An Invertebrate-Inspired Approach to Design and Manufacturing in Soft Robotics

Kevin James Becker
Development of a Distributed Simulation Cluster for MOOS-IvP

Elizabeth Marie Bernhardt
(February, 2024)
Probing the Role of Amines in Aqueous Electrochemical Reduction of Captured-State CO_2

Kaleb A. Blake
Automation of In-Bed Repositioning, Assistance to Sitting, and Transfer for Bedridden Patients via Robot Arms and Strap Interface

Roberto A. Bolli, Jr.
(September, 2023)
Design and Optimization of a Handle Robot for Providing Bodily Support to Elderly Persons

Joseph E. Bonavia
(September, 2023)
A Semi-Analytical Model for Nonlinear Elliptical Inclusions with Spherical Eigenstrains

Melissa Brei
(September, 2023)
Technoeconomic Feasibility of Decentralized Desalination in the Navajo Nation

Kyle Joseph Buznitsky
Laboratory-Scale Thermal Energy Grid Storage (TEGS) Prototype

Tess Amanda Callan
Droplet Based Microalgae Photobioreactor for Biofouling Prevention

Kendrick Dionnuel Cancio
Towards Dynamic Manipulation on an Anthropomorphic Robotic Table Tennis Platform

Eugenio J. Caraballo Justiniano
(September, 2023)
Hydrogel Design Optimization for Measuring Ultrasound Using Laser Doppler Vibrometry

Christopher Pratt Carter
Directional Recrystallization of an Additively Manufactured Oxide Dispersion-Strengthened Nickel-Base Superalloy

Nicolas Sebastian Castro
Development of a Biohybrid Tendon Interface for Muscle-Powered Robots

Rubén Castro Ornelas
Everyday Finger: A Robotic Finger that Meets the Needs of Everyday Interactive Manipulation

Carlos Eduardo Celeste Junior
Co-Design of Resource Limited Genetic Networks Tuning System Parameters to Satisfy Specifications

Priya Sara-Elanjikal Chacko
(See also M.B.A., Course XV)
Accelerating the Integration of Low-Volume, High-Mix Production Organizations

Hao Chen
Applications of Light Reflectance Sensing in the Gastrointestinal Tract with Ingestible Devices for Disease Diagnosis

Huaibo Chen
(February, 2024)
Bayesian Inference and Experimental Design of Combustion Kinetic Models

Daniel Ilan Copeland
Frequency Modulated Continuous Wave Radar Based Fall Risk Monitoring System

Juan Fernando Correa Nunez
(See also M.B.A., Course XV)
A Data Driven Approach to Uncovering Energy Consumption Reduction Opportunities Within Industrial Operations

Samuel Aaron Cotey
(See also S.M.(N.A.M.E.), Course II)
Al-Ni Nanofilm Powered Miniature Linear Actuator for Medical Devices

Sarah May Cotey
(See also S.M.(N.A.M.E.), Course II)
Hydrodynamic Analysis of Arrays of General Bodies

Carmen Mary Sleight Crawford
(See also S.M., Course XXII)
Conceptual Design of a Nuclear Microreactor Transportation Cask

Alec Ryan Creta
(See also M.B.A., Course XV)
A Strategic Framework for Evaluating Next-Generation Technologies in Biocatalysis

Isabelle Audra Cunitz
(September, 2023)
Galvanic Displacement Across Single-Layer Graphene

Emily Alice Curran
(See also S.M.(N.A.M.E.), Course II)
Manufacturability Assessment of the Navy Integrated Power and Energy Corridor (NiPEC)

Jonathan Jerald Daus
(See also Naval E., Course II)
Magnetohydrodynamic Induction Pump Jet Propulsor for Undersea Vehicles

Gregory Alexander Davis
(See also M.B.A., Course XV)
Semi-Automatic Nesting and Lean Problem Solving in a High-Mix Low-Volume Production Environment

Anita Dey Barsukova
Development of a High-Throughput Cryoprotection Screening Platform for Cell Therapies

Branden Thaddeus Francis
(See also M.B.A., Course XV)
Minimizing Total Delivered Cost of Stamped Assemblies Through Sourcing Optimization

Levi S. Gershon
Hybrid Induction Drive for a Magnetically Levitated Control Moment Gyroscope

Abraham Gebreab Gerzeghier
(See also M.B.A., Course XV)
An Environmental Impact Assessment of 3D Printed Medical Devices

Collin John Goldbach
(September, 2023)
Design of a Market Ready Tractor for Small Farms in Resource Constrained Markets

Evan Guang Haas
(See also M.B.A., Course XV)
Optimization of Thermoplastic Composite Manufacturing with Digital Process Intelligence

Jessica Han
Proximity Sensors for a High-Bandwidth, Low-Latency Robotic Manipulation Object Avoidance Controller

Luke Wesley Hardy
Plastic Deformation in Kinematic Couplings: Enhancing Repeatability and Robustness in Precision Engineering

Heidi Jill Hatteberg
(See also M.B.A., Course XV)
Product SKU Analysis, Rationalization, and Optimization

Samuel Marcus Heath
(September, 2023)
Treating Brackish Groundwater for Irrigation with Selective Electrodialysis & Nanofiltration

Vanessa Hernandez-Cruz
Bayesian Relevance for Enhanced Human Robot Collaboration

Haley O'Hara Higginbotham
Design Exporation for Biological Fluid Sampling Platform

Nicholas Jay Holmes
(See also M.B.A., Course XV)
Scheduling in a High-Mix Low-Volume Job Shop

Zhong Qian Huang
(September, 2023)
Assessing Bovine Methane Emissions: Respiratory Simulation and Optical Gas Imaging Methods

Malek Mortada Ibrahim
Molecular Self-Assembly of Carbon Nanosheets via AFM Nanoprinting

Urvaksh Danesh Irani
(September, 2023)
Design of a Mass-Manufacturable Globally Distributable Passive Prosthetic Foot

Ahmad Mujtaba Jebran
BIOSENTERO: Bioinspired Soft Enteroscopic Robot for Facilitating Locomotion, Steering and Intervention in the Deep Small Intestine

Ian Alexander Kleinemolen
(See also M.B.A., Course XV)
Inventory Optimization and Simulation Analysis for Supply Chain Disruption Events

Young Ko
(September, 2023)
Modeling and Optimization of Tunable Insulated Hybrid Cooling to Extend Food Shelf-life Using Scalable and Affordable Materials

Aadi Manish Kothari
(September, 2023)
Real-Time Motion Prediction for Efficient Human-Robot Collaboration

Giho Lee
Geometrically Programmed Nano-Resistors for Ultra-Robust Artificial Neural Network Accelerator

Jessica Ellen Lee
(See also M.B.A., Course XV)
Leveraging Digital Tools and Analytics for Temperature Management in Cold Chain Systems for Gene Therapies

Lani Dakyoung Lee
Aging Changes Cell Mechanics and Dynamics with a Backbone of Cytoplasmic Crowding

Regina Elizabeth Lee
(September, 2023)
A LIGO Double Pendulum Suspension Prototype for Reducing Unwanted Cross-Couplings

Benjamin Daniel Lerman
(See also M.B.A., Course XV)
Techno-Economic Analysis of Line Haul and Switcher Locomotive Propulsion by Diesel, Battery, and Hydrogen Fuel Cell Technologies

Yizhou Liu
Stability and Dynamics of Resource Consumer Ecosystems

Evan Caldwell Long
(See also M.B.A., Course XV)
Secrets of the Aluminati: Bottleneck Assessment within an Aluminum Rolling Mill

Yuxiang Ma
(September, 2023)
Design and Integration of an Underactuated Robotic Finger with Vision-Based Tactile Sensing

Daniel Frank Massimino
Additive Manufacturing of Interlocking Glass Masonry Units

Nicholas Anthony May-Varas
Local and Global Numerical Analysis of a Porous Screen in Free-Stream Flow

Brandon Patrick Meehan
(See also M.B.A., Course XV)
US Green Hydrogen Production: Strategic Approaches to Enhancing Economic Viability and Market Development

Aditya Mehrotra
A Picture Book for the Roboticist-Why We Should Start with Hardware, and How to Teach so it Sticks

Wade Timothy Meyers
(See also S.M.(N.A.M.E.), Course II)
Design and Analysis of a Modular Navy Integrated Power and Energy Corridor Cooling System

Peter Gunther Morice
(September, 2023)
Proton Exchange Membrane Electrolysis Applied to the Dehydration of Cow Milk

Trevor Murphy
Capacitor Ladder Circuitry for Improving Electrical Energy Transfer Efficiency to Electromechanical Actuators

Eva Nates
Using Markerless Motion Capture and Principal Component Analysis to Classify BMX Freestyle Tricks

Sean Michael Parks
Novel Fluidic-Based Cell Capture and Adhesion Measurement Approach

Julia Petersen
(February, 2024)
Machine Learning and Data-Driven Analysis of Thermal Runaway Characteristics in Lithium-Ion Batteries

Max William Pierce
(September, 2023)
Triad Interactions among Surface Waves Propagating through an Ice Sheet

André Milo Pincot
Hemorheological Considerations in the Development of Microfluidic Blood Oxygenation Devices

Mahmoud M. Ramadan
(September, 2023)
(See also S.M., Technology and Policy Program)
Methodology for Pyrolysis-Induced Thermal Runaway Analysis in Li-ion Batteries

Robyn Corina Richmond
Participatory Methods in Technical Design: Household Biomass Stoves

Brandon Sebastian Rios
Quantifying Donor-Dependent Morphological and Functional Differences in Healthy and Diseased Primary Human Muscle Cultures

Jessica Madison Rosendorf
Non-Invasive Measurement and Characterization of Muscle Dynamics in Vivo during Running

Styliani Rossikopoulou Pappa
(September, 2023)
Play Taxonomies: A Toy Index for Product Design

Christopher John Sarao, Jr.
(See also Naval E., Course II)
Design and Modeling of Pneumatic Mechanism for Improved Indirect Liquid Cooling of Shipboard Power Electronics

Booker B. Schelhaas
Evolving User Needs Identification Through AI Augmented Approaches

Charles Byron Seaberg
(September, 2023)
Reticle Stage Actuation Concepts for High Acceleration Trajectories in Next-Generation Photolithography Tools

Fang Sheng
High-Throughput Bandgap Mapping for Perovskite-Inspired Materials

Dhyllan Adan Skiba
(February, 2024)
Elucidation of Battery Electrolyte Coordination Thermodynamics via Calorimetric and Potentiometric Titrations

Katherine Charlotte Spaeth
(See also Naval E., Course II)
Addressing Challenges of Volume Controlled Cavity Expansion (VCCE) for In-Vivo Tissue Testing

Luke Robert Sullivan
Analysis of the Impact of Automaker Strategies on Lithium Price Elasticity Using a Novel Bottom-Up Demand Model

Anantha Narayanan Suresh Babu
(September, 2023)
Stochastic Sea Ice Modeling with the Dynamically Orthogonal Equations

Mark David Sweet, Jr.
(See also M.B.A., Course XV)
Breaking the Mold: Using Automated Design to Accelerate Composites Manufacturing

Gwendolyn Tsai
Thermal Interaction of Inert Additives in Energetic Materials

Prajwal Tumkur Mahesh
Method for Photopolymerized 3D Printing of Recyclable Thermoplastic Polymers

Samuel L. Ubellacker
(September, 2023)
Aggressive Aerial Grasping Using a Soft Drone with Onboard Perception

Ana C. Vendemiatti Haddad
(See also M.B.A., Course XV)
Optimizing Integrated Continuous Biomanufacturing Throughput: Resource Constraints and Process Scheduling

Daniel Wang
(February, 2024)
Revealing SEI Formation and Evolution at the Li Anode/Liquid Electrolyte Interface in Li-ion Batteries by in situ Fourier Transform Infrared Spectroscopy

Jason Bradley Webb
(See also Naval E., Course II)
Using Multiple Objective Optimization for Autonomous Sailing Vessels

Jakob Max Wegmueller
Analysis of Multi-Salt Transport and Salt Leakage Pathways in Bipolar Membrane Electrodialysis for Brine Valorization

Duo Xu
(September, 2023)
Polyethylene-Based Multifunctional Composite Material for Radiation Shielding, Passive Thermoregulation, and In-Situ Fabrication for Space Exploration

Qifan Yu
Fabrication-Integrated Design of Soft Elastomeric Systems with Embodied Intelligence

Chuwei Zhang
Synthesis of Doped and Gradient Structure NCM811 by Flame-Assisted Spray Pyrolysis

William Raymond Zunker
(September, 2023)
A Mechanically-Derived Contact Model for Adhesive Elastic-Perfectly Plastic Particles

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Avri Alus
(February, 2024)
(See also S.M.(Ocean Eng.), Course II)
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Samuel Aaron Cotey
(See also S.M., Course II)
Al-Ni Nanofilm Powered Miniature Linear Actuator for Medical Devices

Sarah May Cotey
(See also S.M., Course II)
Hydrodynamic Analysis of Arrays of General Bodies

Emily Alice Curran
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Manufacturability Assessment of the Navy Integrated Power and Energy Corridor (NiPEC)

Wade Timothy Meyers
(See also S.M., Course II)
Design, Analysis and Modeling of a Modular Navy Integrated Power and Energy Corridor Cooling System

Jacob Daniel Skimmons
Applications of Non-Instrusive Load Monitoring Afloat

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Avri Alus
(February, 2024)
(See also S.M.(N.A.M.E.), Course II)
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Annemarie Dapoz
Design, Development, and Testing of an Unmanned Surface Vessel (USV) for Oyster Aquaculture

Suparnamaaya Prasad
Investigating Optical Microplastic Detection Methods Using Fluorescent Staining through Nile Red

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Zachary Kenneth Adams
Recycling of Rare Earth Magnets with Sulfur Based Chemistries and High Temperature Processing

Khoi Phuong Dao
(February, 2024)
Modeling Compact Non-Volatile Photonic Switching Based on Optical Phase Change Material and Graphene Heater

Mrigi Munjal
(See also S.M., Technology and Policy Program)
Strengthening Value Chains for Developing and Deploying Batteries in the Global South

Kimaya Prasad Suryarao
Iron Production by Molten Sulfide Electrolysis

Alexa Shingming Zammit
(February, 2024)
T2 Characterization of Oil-In-Water Emulsions for NMR Sensor Applications

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Pedro Leonardo Acosta De León
Developing an Adaptive Sampling Planner as a Domain-Independent Tool

Ayesha Ali
Scaling Privacy Preserving Payments

Yaseen S. Alkhafaji
(February, 2024)
Fast Partitioning for Distributed Graph Learning Using Multi-Level Label Propagation

Henry Nils Andersen
(February, 2024)
Modeling, Manufacturing, and Experimental Validation of an Electric Machine for Aircraft Propulsion

Anna A. Arpaci-Dusseau
Accurate and Fast Approximate Graph Mining at Scale

Ashay Athalye
(September, 2023)
Learning Neuro-Symbolic Skills for Bilevel Planning

Claire X. Bao
(See also S.B., Course VI-3)
Mitigating Undercutting Attacks: A Study on Mining and Transaction Fee Behavior

Christian A. Belser
(September, 2023)
Comparison of Natural Language Processing Models for Depression Detection in Chatbot Dialogues

Antonio Berrones
(February, 2024)
Detecting Multimodal Behaviors for Neurodegenerative Disease

George C. Bian
Soccer Last Touch and Automatic Event Detection with Skeletal Tracking Data

Nicholas R. Bonaker
(September, 2023)
A Usability Study of Nomon: A Flexible Interface for Single-Switch Users

Krit Boonsiriseth
Performance Engineering of Modular Symbols

Sam T. Boshar
Genomic Language Models Are All You Need: Exploring Genomic Language Model Protein and RNA Sequence Tasks

Jeremiah H. Budiman
(February, 2024)
Machine-Learning Based Ship Traffic Prediction in the Suez Canal

Cathy Cai
Machine Learning Methods for Learning Gene Dependencies

Miranda J. Cai
ScaleGPS: Scalable Graph Parallel Sampling via Data-Centric Performance Engineering

Enrique Casillas
Video Games for Empathy and Understanding Towards Human Migration

Harshal Chamdal
Comparing Parameter Efficient Finetuning Techniques (PEFT) Using Datamodels

Eileen Xin Yu Chau
Improving Causal Inference and Attribute Prediction Through Visual Information

Anika Cheerla
Planning in Uncertain, Dynamic Environments

Alice Chen
(See also S.B., Course VI-3)
Policy-Based Access Control in Federated Clinical Question Answering

Kevin Sun Chen
ICσOS: σOS for Intercloud Environments

Tiffany Tianyu Chen
(September, 2023)
IlluSonnet: Using Generative AI to Create Illustrations for Sonnets

Wei-Tung Chen
(September, 2023)
RL-SAR: A Robotic System for Fine-Grained RFID Localization using RL-Based Synthetic Aperture Radar

Phillip I. Cherner
(February, 2024)
EMC: A Virtual Reality Platform for Bridging the Climate Science Communication Gap

Shelley Jeeyoo Choi
Modeling Personalized Changes in Wellbeing Scores with Sleep Components from Wearable Devices

Keenly Simon Chuang
(September, 2023)
Visualization of Probabilistic Programs for Physical Scene Understanding

Sarah M. Coston
Modulated Frequency Multiplier Inverter

Jesse Everett Cummings
(See also S.B., Course VI-4)
Characterizing Image Recognition Difficulty in Artificial and Biological Visual Processing

Bilal H. Daqqah
Design and Implementation of an Automated Document Parsing System for Order Processing

Hope Dargan
(September, 2023)
CS2 Student Programming Performance Prediction and Intervention

Ray Hiralal Dedhia
(February, 2024)
Preventing CSV Injection Attacks with a Browser Extension

Yonatan Delelegn
(February, 2024)
Implementing Robust and Efficient Pseudo-Transient Methods for Solving Neural Complementarity Problems in Julia

Kaustubh Dighe
Fast Multistage Compilation of Machine Learning Computation Graphs

Jessica H. Ding
Learning Approximate Pareto Frontiers using Deep Multi-task Transfer Learning

Samir Droubi
ExoBLAS: Meta-Programming a High-Performance BLAS via Scheduling Automations

John M. Eastman
Dynamic 3D Reconstruction: Learning Neural Constitutive Laws with Gaussian Splatting

Vincent K. Fan
(See also S.B.,Course XVIII)
Using Language Models to Understand Molecular Structures

David Shen Fang
Unsupervised Learning for Generative Scene Editing and Motion

Andrew B. Feldman
(February, 2024)
Microarchitecture Categorization and Pre-RTL Analytical Modeling for Sparse Tensor Accelerators

Matthew R. Feng
Crystal Structure Prediction of Organic Materials with Diffusion-Based Models

Siwakorn Fuangkawinsombut
Beyond Memorization: Exploring the Dynamics of Grokking in Sparse Neural Networks

Rujul Gandhi
(September, 2023)
Identification of Atomic Propositions in English Instructions for Flexible Translation to Robot Planning Representations

Trinity Gao
(February, 2024)
From Logs to Causal Analysis: A Guided User Interface for Causal Graph Discovery

Nina R. Gerszberg
Quantifying Gender Bias in Large Language Models: When ChatGPT Becomes a Hiring Manager

Michael Gilbert
(September, 2023)
LoopTree: Enabling Systematic and Flexible Exploration of Fused-Layer Dataflow Accelerators

Fiona J. Gillespie
Aquaculture Basket Detection and Tracking for Autonomous Surface Vehicles

Marlena C. Gomez
(September, 2023)
Analysis Driven Shape Design of Parametric Geometry Using B-Splines and Free-Form Deformation

Rolando A. Gonzalez
(September, 2023)
Inductive-Based DC-DC Bi-Directional Converter for Battery Cell Charge Cycling

Ishaan Govindarajan
Design and Characterization of an Open-Source, High-Efficiency, Easily-Reconfigurable Switch-Mode Current Driver for Magnetic Resonance Imaging Applications

Ashley M. Granquist
(See also S.B., Course VI-3)
AI-Augmented Interface for Incremental App Development in MIT App Inventor

Colin T. Greybosh
(February, 2024)
Bringing Computational Modeling into the Classroom with Custom Block-Based Programming Languages in StarLogo Nova

Alicia X. Guo
(February, 2024)
Exploring the Impact of AI Value Alignment in Collaborative Ideation: Effects on Perception, Ownership, and Output

Diptasri Gupta
Acquiring Expertise and Societal Productivity in a World of Artificial Intelligence

Sejal Gupta
Augmenting Inputs using a Novel Figure-to-Text Pipeline to Assist Visual Language Models in Answering Scientific Domain Queries

Nicholas F. Gustafson
Standardization of Electronic Component Datasheets to Improve Systematic Data Extraction

Adib Hasan
Towards Safe and Versatile Transformer Models: Enhancing Safety, Efficiency, and Domain-Specific Performance

Michael Lowell Hensgen
Coherency Loss for Hierarchical Time Series Forecasting

Jay R. Hilton
Enabling the Rust Compiler to Reason about Fork/Join Parallelism via Tapir

Kelly P. Ho
(September, 2023)
Balancing Memory Efficiency and Accuracy in Spectral-Based Graph Transformers

Amelia Y. Hu
(See also S.B.,Course VI-3)
New Parallel Algorithms for Planarity Testing

Allen Huang
(September, 2023)
Developing a Modular Visual Data Manipulation Framework for Data Exploration in the Consumer Packaged Goods Industry

Brian R. Huang
(September, 2023)
Adversarial Learned Soups: Neural Network Averaging for Joint Clean and Robust Performance

Grace Feiyan Huang
(See also S.B., Course VI-3)
Twofish: Automatic Edit Cascading for Diagrams

Irene Yu-Lin Huang
(See also S.B., Course VI-3)
Rethinking the Evaluation of Compositional Reasoning for Modern VLMs

Samuel Ingersoll
(September, 2023)
Analysis of Error in a Model Predictive Irrigation Controller

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Yunyi Shen
Double Trouble: Predicting New Variant Counts Across Two Heterogeneous Populations

Idan Shenfeld Amit
Balancing Teacher Following and Reward Maximization in Reinforcement Learning

Youngjin Shin
(February, 2024)
Physics-Based Compact Model Development of Field Emitter Arrays

Leroy Kudakwashe Sibanda
(February, 2024)
(See also S.M., Engineering and Management)
Towards Implementing Modular Nuclear Reactor Systems for Developing Countries

Ashkan Soleymani
Causal Structure Learning through Double Machine Learning

Anoopkumar Sandip Sonar
Dialogue-Driven Multi-Agent Activity Planning

Prajna Vinay Soni
(See also S.M., Technology and Policy Program)
Addressing Misalignment in Language Model Deployments through Context-Specific Evaluations

Azfar Sulaiman
(See also S.M., Engineering and Management)
Blueprinting AI Economics: Cost Assessment Framework for Non-Technical Stakeholders to Navigate Key Aspects in Prompt Engineering, Prompt Automation, and Fine-Tuning LLMs

William Arthur Sussman
Peer-to-Peer Group Communication for City-Scale Mesh Networks

Demircan Taş
(See also S.M.Arch.S., Course IV)
Parametric Paintover: Generating Design Models via Image Encoders and Latent Trajectories

Anzo Zhao Yang Teh
(September, 2023)
Empirical Bayes via ERM and Rademacher Complexities: The Poisson Model

Leandra Tejedor
(See also S.M., Engineering and Management)
Stylizing 3D Models With Generative AI for Fabrication

Megan Minh-Hanh Tjandrasuwita
MeMo: Meaningful, Modular Controllers via Noise Injection

Alexander Elan Ungar
(September, 2023)
Scaling Up a Quantum Register of Dark Electronic Spins in Diamond

Joshua Leo Vendrow
Dataset Interfaces: Diagnosing Model Failures Using Controllable Counterfactual Generation

Agnes Villanyi
Classical Commitments to Quantum States

Tanay Wakhare
(February, 2024)
Two Studies of Constraints in High Dimensions: Entropy Inequalities and the Randomized Symmetric Binary Perceptron

Purui Wang
Robust Mobile Underwater Backscatter Networking

Qiuyuan Wang
Stochastic In-Memory Computing using Magnetic Tunnel Junctions

Elizabeth Allison Whittier
Design and Fabrication of High Frequency Electromagnetic Coil for Magnetic Particle Imaging

Heather Lynn Willis
(See also Naval E., Course II)
Analysis of Data from the U.S. Shipbuilding Industry and Application to Improve Performance Metrics

Jaeyeon Won
(September, 2023)
WACO: Learning Workload-Aware Co-Optimization of the Format and Schedule of a Sparse Tensor Program

Dylan Robert Wootton
Charting EDA: Characterizing Interactive Visualization Use in Computational Notebooks with a Mixed-Methods Formalism

Guangxuan Xiao
Efficient Deployment Algorithms for Large Language Models

YuQing Xie
(February, 2024)
Equivariant Symmetry Breaking

Haike Xu
Worst-Case Performance of Popular Approximate Nearest Neighbor Search Implementations: Guarantees and Limitations

Fan Xue
A Compact Hydraulic Head Auto-Regulating Module (CHARM) for Long-Term Constant Gravity-Driven Flow Microfluidics

Zi Yu Xue
Tailors: Accelerating Sparse Tensor Algebra by Overbooking Buffer Capacity

Pradyot Singh Yadav
Design/System Technology Co-Optimization of Gallium Nitride High Electron Mobility Transistors for Next-G 3DIC Heterogeneous Integration of Gallium Nitride and Si CMOS

Shiqi Yang
Learning Comorbidity and Disease Progression in Electrical Healthcare Record: Comparing Bayesian Uni-Modal with Bayesian Multi-Modal Models

Yuheng Yang
(February, 2024)
Pensieve: Microarchitectural Modeling for Security Evaluation

Sameia Zaman
(February, 2024)
Kinetic Inductance Characterization of Thin 2H-NbSe2 Superconductor Using Circuit Quantum Electrodynamics

Difei Zhang
(February, 2024)
Generative and Discriminative Models in Phase Transition Prediction

Ruiqi Zhang
(September, 2023)
Approaching Novel Perovskites Photovoltaic Devices through Machine Learning and Interfacial Engineering

Wei Zhang
(February, 2024)
Online Auction with Multiple Items

Zhekai Zhang
(September, 2023)
Spatial Accelerator Generation and Optimization for Tensor Applications

Philipp Zimmer
(February, 2024)
(See also S.M., Technology and Policy Program)
Advancing Anticipatory Action in Humanitarian Aid and Development Using Natural Language Processing

Ane Zuñiga Gurruchaga
Multi-Objective Bayesian Optimization with Asynchronous Batch Selection

Master of Science in Chemical Engineering

Course X
Department of Chemical Engineering

Lucas Allen Baston
Production of Bio-based Lactone Monomers for Intrinsically Recyclable Plastics

Ismael Güereca Valdivia
(See also M.B.A., Course XV)
Preemptive Variation Reduction in Biologic Drug Substance Manufacturing

Ryan Elliot Hawtof
(February, 2024)
Experimental and Modeling Investigations of Pyrolysis and Polymer Fouling

Mateusz Marek Wojtaszek
Elucidating Dual Methylcellulose-and-Oil-Nanoemulsion Thermoresponsive Gelation

Master of Science in Chemical Engineering Practice

Course X-A
Department of Chemical Engineering

Meshal Mansour Alshalan
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Sayandeep Biswas
(September, 2023)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Richard Benjamin Canty
(February, 2024)
(See also Ph.D., Course X)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Yimai Chen
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Kexin Dai
Attended School of Chemical Engineering Practice in Lieu of Thesis

Alexis Breanna Dubs
Attended School of Chemical Engineering Practice in Lieu of Thesis

Jenna Claire Fromer
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Krystian Kamil Ganko
Attended School of Chemical Engineering Practice in Lieu of Thesis

Nicole Marie Howard
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Fausat Emosioke Isu
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Laman Natig Jalil
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Robert Paul Jones
(See also Ph.D., Course X and M.B.A., Course XV)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Fang-Yu Kuo
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Jun Wen Law
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Ruoxin Lu
(September, 2023)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Kariana Andrea Moreno Sader
(September, 2023)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Shakul Pathak
Attended School of Chemical Engineering Practice in Lieu of Thesis

Alexander Sananes
(September, 2023)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Landon Schofield
Attended School of Chemical Engineering Practice in Lieu of Thesis

Julian Ufert
Attended School of Chemical Engineering Practice in Lieu of Thesis

Yuchen Yang
(February, 2024)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Yingzhe Zheng
(September, 2023)
Attended School of Chemical Engineering Practice in Lieu of Thesis

Master of Science in Aeronautics and Astronautics

Course XVI
Department of Aeronautics and Astronautics

Grant Freeman Appel
Low Earth Orbit Stability Analysis Using Monte-Carlo Techniques

Brittany Elise Bishop
System-Theoretic Process Analysis of a Novel Airborne Laser Communication System

Sathwik Pandeshwara Chadaga
(September, 2023)
Power Failure Cascade Prediction Using Machine Learning

Yana Charoenboonvivat
Quantitative Modeling of Water Demand to Support a Continuous Human Presence on Mars

Alissa Lilian Chavalithumrong
A Community-Based Approach for Hub Placements

Luke Joseph Antonio de Castro
Reinforcement Learning for Minimum Energy Planning with Multi-Fidelity Modeling

Noam David Eisen
Systems Theoretic Process Analysis as a Practical Tool for Comprehensive Flight Test Hazard Identification

Andrew J. Fishberg
(February, 2024)
Multi-Agent Relative Pose Estimation with Ultra-Wideband Ranging

Leonardo Gallo de la Paz
Silicon Photomultipliers as Free Space Optical Communication Sensors

Evan Michael Gibney
Atmospheric Impacts of Hydrogen as an Aviation Fuel

Wyatt M. Giroux
Modeling and Assessment of Efficiency in Arbitrary Air-Breathing Power Systems

Adrien Christian Emile Guenard
Assessment of New Metric System to Regulate NOx Aircraft Emissions at Cruise

Wenyuan Hou
Oxide Coarsening and Agglomeration During Melt-Based Additive Manufacturing of Dispersion-Strengthened Alloys

Tara Colleen Housen
Climate Impact Analysis of Global Direct Air Capture Deployment

Mennatallah Mostafa Mohamed Hussein
(September, 2023)
Reduced Order Modeling of a Rocket Engine Turbopump Inducer for Assessment of Pogo Instability

Shaan Anand Jagani
Methods for Enhancing Ceramic Matrix Composites with Aligned Nanotube Reinforcement

Olivier Ng'weno Kigotho
Design of Experiments for Contrail Avoidance

Courtney Regina Kirkpatrick
(See also S.M., Technology and Policy Program)
A Technical and Policy Needs Analysis for Space Traffic Management of Low Lunar Orbit

Yuenong Ling
(September, 2023)
Wall-Modeled Large-Eddy Simulation Based on Building-Block Flows

Marcos Adrian Logrono
(February, 2024)
A Unified Framework for Characterization of Modes and Spike Routes to Rotating Stall

Rodrigo Lopes Rose
Limitations of Commercial Aviation Safety Assessment Standards Uncovered in the Wake of the Boeing 737 MAX Accidents

Cici Mao
An Approach to Fault Protection Design for the Proposed Mars Sample Return EDL and Ascent Phase Architectures

Lanie Grace McKinney
Numerical Modeling of Plasma-assisted CO2 Conversion for Mars ISRU

Kendra Lynn Middleton
System Identification CFD-Based Reduced-Order Modeling for Hypersonic Vehicles

Blanca M. Murga
(See also M.B.A., Course XV)
How Complexity Drives Long Lead Times: A Queueing Theory Space Industry Application

Catherine Joy Breslin Nachtigal
Processes for Fabrication of SU-8 Structures and Sputtered Materials on Porous Glass for Electrospray Thruster Manufacturing

Joana N. Nikolova
Spacecraft Orbiting and Uncertainty - Planning Surveillance

Mason Burgon Peterson
Relative Robot Localization and Frame Alignment for Multi-Robot Collaboration

Cameron Wesley Pittman
(September, 2023)
Distributed Multi-Agent Decision Making Under Uncertain Communication

Rudrapatna Vallabh Ramakanth
(February, 2024)
Wireless Scheduling for Monitoring Remote Correlated Sources

Théo Artur Rulko
On Stress, Strength, and Failure in Asteroids During Planetary Entry

Akila Saravanan
Strategic Deployment of Aerial Assets

Matthew E. Schofield
Study of Cavity Geometry to Improve Optical Quality of Windows in Hypersonic Flow

Steven Serrano
(September, 2023)
Nanomaterial-Enabled Out-of-Autoclave and Out-of-Oven Manufacturing of Fiber Reinforced Polymer Composites

Yuxin Shu
Assessment of Sustainable Aviation Fuel Production Potential Using Crop Allocation Optimization

Shannon Cassidy Smith
Effect of Distributed Roughness and Surface Curvature on Gortler Vortex Development in High-Hypersonic Flow

Tory Daniel Smith
Sensor Network Tasking for Space Domain Awareness Using Multi-Agent Reinforcement Learning

Chun Man Oswin So
Safe Nonlinear Control Under Control Constraints via Reachability, Control and Reinforcement Learning

Michael Daniel Strauch
(September, 2023)
AeroCatalyst for DeNOx: A Structural Design and Analysis Approach for a DeNOx Catalyst in Aviation

Allison Chang Tsay
(See also M.B.A., Course XV)
Framework for Enhancing Decision-Making Capabilities in the Decarbonization of the Airline Industry

Benjamin Andrew Waters
Comparing Just-in-Time Collision Avoidance to Active Debris Removal for Orbital Debris Remediation

Christopher B. Womack
(February, 2024)
(See also S.M., Technology and Policy Program)
On the Potential Impact of Curved Meshing for Higher-Order Adaptive Mesh Simulations

Xiangcheng Xu
Development and Evaluation of Contrail Models

Ruixiao Yang
Scalable Approaches to Multiple Depot Traveling Salesman Problem in Delivery Systems

Mingxin Yu
Optimizing Motion Planning for Manipulators through Formal Methodologies: CBF and MILP Perspectives

Songyuan Zhang
(February, 2024)
Learning Stabilizing Controllers for High-Dimensional Unknown Systems and Networked Dynamical Systems

Master of Engineering in Biomedical Engineering

Course XX-P
Department of Biological Engineering

Dana L. Haig
(September, 2023)
Combating Maternal Mortality: The Iron Deficient Anemia (IDeA) Diagnostic

Master of Science in Biological Engineering

Course XX
Department of Biological Engineering

Sunho Kevin Chung
(September, 2023)
Development of a Multi-Modal Brain Machine Interface and Its Closed-Loop Applications for Elucidating the Functional Behavior of the Whole Brain

Dylan Cole Hirsch
(September, 2023)
Modeling, Simulation, and Ratiometric Control of a Population of Bacteria Engineered with Bistable Circuits

Master of Science in Nuclear Science and Engineering

Course XXII
Department of Nuclear Science and Engineering

Cody Wu Chang
(February, 2024)
Studies of Electron Heat Conduction in Magnetized, Shock-Driven Implosions at OMEGA

Matthew Dominic Chew Ming Chang
(See also M.B.A., Course XV)
Site Selection, Vendor Evaluation, and Deployment of Nuclear Microreactors in Remote Mining Operations

Matthew H. Clingerman
(September, 2023)
Revisiting MHD Generators with HTS Magnets

Carmen Mary Sleight Crawford
(See also S.M., Course II)
Conceptual Design of a Nuclear Microreactor Transportation Cask

Calvin James Cummings
Evaluation of RANS-Based Turbulence Models for the Propagation of Stratified Fronts in Buoyancy-Driven Flow

Kaylee Marie Cunningham
Modeling UO_2 and UN Fuel Fission Gas Release Instances in BISON for Microreactor Applications

Maurane Garanzini
Feasibility Assessment of Adopting the ADDER Computer Code for the MIT Research Reactor Fuel Management

Emile Gerard Remi Nestor Germonpré
Feasibility Study for the Use of Nuclear Batteries in Decentralized Hydrogen Production

Samuel James Karlson
Pulsed Magnetic Imaging of Broad Frequency Fields using Nitrogen Vacancy Centers in Diamond

Chika Calistus Maduabuchi
Automated Segmentation and Analysis of High-Speed Video Phase-Detection Data for Boiling Heat Transfer Characterization Using U-Net Convolutional Neural Networks and Uncertainty Quantification

Daniel Talbott Murphy
(See also M.B.A., Course XV)
Shutdown Dose Rate Modeling for Radiation Requirements Development and Design Trend Analysis in the ARC Fusion Device

Eva Viktoria Torinn Ohstrom
(September, 2023)
Development and Characterization of Scintillating Fibers with Embedded Photodiodes

Brianna Noelani Ryan
(See also S.B.,Course XXII-ENG)
CEnuNS in Natural Zinc Superconductors and its Application for Nuclear Non-Proliferation

Paul R.M. Seurin
(September, 2023)
(See also S.M., Course VI)
Assessment of Reinforcement Learning Algorithms for Nuclear Power Plant Fuel Optimization

Brendan C. Vaughan
(February, 2024)
Assessment of Hybrid CFD Turbulence Model, STRUCT-Epsilon, for Thermal Striping Behavior

Lorenzo Norman Venneri
(September, 2023)
Design for Cost Methodology Applied to High Temperature Gas-Cooled Reactors

Kate Whiteaker
Quantifying Iodine-129 Environmental Releases and Surface Water Concentrations at Nuclear Fuel Recycling Facilities

Charlotte I. Wickert
(See also S.B.,Course VIII)
Non-Neutron Transmutation of Spent Fuel

Master of Applied Science in Supply Chain Management

Program in Supply Chain Management

Foyinsola Tolulope Adeyemi

Cristina Aguirre Algara

Nikolay Aristov

Andres Arturo Ayala Mennechey

Kavitha Balakumar

Shantanu Sunil Baviskar

Jean Herode Bertrand

Fabrizio Umberto Boaron

Oscar Bonet Olano

Diego Alonso Campos Durand

Maria de Loreto Cantu Villarreal

Alex Michael Carroll

Chu Cho

Zhan Ding

Matthias Eder

Troy Isaac Egar

José Arturo Espinosa Salas

Firanza Fadilla

Perry McCants Castleman Falk

Yuan Fang

Mohamed Lotfi Gaafar

Stephanie Gabriela Gomez Prieto

Fan Gruener

Hansika Gupta

Santiago Hernandez

Ardi Prasetya Hernawan

Chia Hsu

Shane Huisman

Miguel Angel Iturralde Jaramillo

Kevin-Alexandre Jacquot

Arjun Kapoor

Bobby Kheny

Dhorn Kosolpatanadurong

Nilay Kumar

Ravi Kumar

Nimisha Shaji Kunnathu

Ziyan Li

Yu-Hsin Lin

Yijing (Mavis) Lu

Maria Lucchi

Patricia Machado Andrade

Elizabeth Rachel Marchosky

Julia Grace Mionis

Shayna M. Moliver

Jospin Kalumire Mubaki

Anirudh Narula

Oscar Luis Nieto Michelis

Justin O'Driscoll

Matías Andrés Opazo Gezan

Seyeon Park

Santiago Pérez Olvera

Omar Fabian Pineda Carrillo, Sr.

Thiago Pinheiro Faury

Mayank Raj

Yaniliz Rivera Valentin

Ryan Justin Anthony Rocke

Mateo Sebastian Rojas

Luis Felipe Bittencourt de Brito Sena

Alexander Johnathon Shaw

Niraja Shukla

Kalyan Prasanna Simha

Seyed Mostafa Taheri

Douglas Tjokrosetio

Mohamed Amine Tmimi

Chi Sheng Tseng

Turgay Turkmen

Drake E. Turnquist

Claire Urbi

Alex Meier Varnhagen

Ria Verma

Ping Wang

Joshua Andrew Weston

Yan Xu

Lili Zhang

Linyi Zhang

Ruiming Zhang

Wenchao Zhang

Master of Science in Engineering and Management

Program in System Design and Management

Mridula Prakash
(February, 2024)
Role of Generative AI tools (GAITs) in Software Development Life Cycle (SDLC)- Waterfall Model

Samuel Alan Abel
(September, 2023)
Designing an Optimal Portfolio of Competing Fuels Under Uncertainty

Sowmya Addanki
Dynamics of Corporate Entrepreneurship in Technology Companies: A Study of Strategic Practices and Governing Frameworks Shaping Entrepreneurial Ecosystems

Eden Newman Adler
(See also S.M., Course VI)
Modeling the Affect of "Aha!" Moments to Detect the Moment of Learning

Yousif Fayez AlSadah
(September, 2023)
Industry Platforms: Case Studies to Measure Platform Capabilities for US Unicorns

Warren Vanner Anderson
(September, 2023)
Enhancing Innovation in Technical Teams: Adapting Systems Architecture for Use on a Human-Centered Design Team

Tomonoshin Aoki
How Pharmaceutical Companies Utilize Platform Strategy: A Study of the COVID-19 mRNA Vaccine Development

Naofumi Aoshima
Exploration of the Future Enterprise System Architecture of the Japanese-Origin High-Speed Railway in Texas

Roy Asher
Introducing AI as a Team Member During the Fuzzy Front End of New Product Introduction Projects in the Medical Device Industry: An Experimental Design

John Richard Beilstein
(February, 2024)
A Proposed Framework to Facilitate System Engineering, Requirement Development, and Regulatory Document Writing Using Natural Language Processing (NLP) Models.

Jorge Andrés Besa Lehmann
(September, 2023)
How to Select Chargers and Batteries for Electric-Bus Transit Systems in Large Cities? A Comparison of Lifecycle Costs and Operational Reliability for Different Configurations Using the Chicago Bus Network as a Case Study

Michael Christopher Case
(February, 2024)
An Organizational Network Analysis of the Sprawling U.S. Department of Defense Innovation Ecosystem

Corinne Shannon Cochran
(September, 2023)
Systems Review of Membrane Technology for Refinery Hydrocarbon Separations

Clay Allen Coffey
(September, 2023)
Small Modular Reactor Technology for Industrial Heat and Power: Selection Techniques and Implementation Strategies for Real-World Use Cases Using Systems-Based Approaches

Justin Dargis
(September, 2023)
Architecting Upstream Oil and Gas Enterprise for Innovation

Brooke Brininstool DiMartino
(September, 2023)
Direct Air Capture (DAC) as a Carbon Removal Solution: Analyzing Scale-Up, Cost Reduction, and Pathways for Acceleration

Mart Duitemeijer
Techno-Economic Analysis of Fusion Energy in the European Electricity Market

Richard Dulce II
A Systems Dynamics Approach to U.S. Army Talent Management

Marcelle Denise Durrenberger
A System Exploration of Startup Decision Heuristics

Kyle Lee Ensley
(September, 2023)
Coast Guard Aviation & the Assignment Problem: An Auction Model to Allocate the Future 'All-Jayhawk' Fleet

Fahim Faruque
System Interfaces to Facilitate Follow-Up Pharmaceutical Care in the United States

Yosuke Fujii
Integrated Business and Technical System Modeling of Rail Projects with Uncertainty Analysis

Madeleine Alise Golison
A Data Driven Approach to the Attrition of Women in Software Engineering

Nicholas Ciro Gonzalez
(September, 2023)
A Framework for Evaluation of Technology-Based Innovation Project Proposals for Implementation Using a System Approach

David Bernardo Gottdiener Islas
Towards a New Affordable Housing Approach: A System-Thinking Criteria Set to Assess Quality

John Martin Hamel
A Systems Approach To Low-Cost, Modular Autonomous Surface Vehicle and Autonomous Underwater Vehicle Integration

Aaron C. Hanenkratt
Project Management for Research and Development

Yizheng He
(September, 2023)
Evaluating SigmaOS with Kubernetes for Orchestrating Microservice and Serverless Applications

Brian Herrera
(February, 2024)
Cloud-Native Applications and Their Role in Supporting Agile Hardware Development

Thinh Bao Hoang
(See also Naval E., Course II)
Exploring Trade-Offs and Emergent Properties of Heterogeneous Swarms of Maritime Robot Systems through Empirical Analysis and Application-Driven Experiments

Chen Huang
(February, 2024)
Enhancing Business School Engagement Through Gamified Experience in Non-Pedagogical Contexts - A Human-Centered Design Approach

Rei Iijima
Technological Development Trajectories of the Component Technologies in Battery Electric Vehicles

Daniel Jacobs Luengo
Harnessing Intelligent Audio-Gesture Interfaces for Wearables as a Sleep Aid

Anukriti Jain
Analysis of Dark Patterns in UI/UX Elements of Digital Platforms

Mumin Khan
A Data-Driven Approach to Comparing Battery Electric Vehicle Architectures

Hope Marie Klukovich
(September, 2023)
Facilitating Adoption of Continuous Manufacturing Platforms in the Pharmaceutical Industry

Jacky Levy Kotane
Telco 5G and Non-Terrestrial Networks: an Architecture Trade Analysis to Select Solutions to Support Socio-Technical Needs in South Africa

Eduardo Luis Latouche
Overcoming Challenges in Cellular Therapies: A Systems Engineering Approach for Equitable Access

Paola Andrea León Alarcón
(February, 2024)
Gauging the Efficiency and Efficacy of Timed Coding Assessments in Software Engineering Recruitment

Ethan Richard Lindstrom
(September, 2023)
Feasibility of a Human Capital Digital Twin

Mun Kit Kenny Lum
(September, 2023)
System Dynamic Analysis to Evaluate the Socio-Economic Impact of the Energy Transition of Singapore to Achieve Net Zero Emissions by 2050

Chao-Lun Mai
(See also S.M., Course VI)
Identification of the Steel Decarbonization Options for Different Regions

Carlos Edoardo Melgarejo Oviedo
The Vehicle Platform Architecting Process: Will Model Based Systems Engineering Help Organizations with the Architectural Transition from Ice to Battery Power?

Noemie Brigitte Midrez
(February, 2024)
System Approach to Investigate Environmental Footprint and Cost Tradeoffs in Additive Manufacturing

Duncan MacKenzie Miller
(February, 2024)
Data-Driven Space Economy Investment Strategy Through an Updated Commercial Space Technology Roadmap (CSTR)

Mariam Momenzadeh
Study and Analysis of the Evolution of Knee Arthroplasty Surgery Through its Technological Innovation

Yuichiro Monden
Firm Dynamics Under Industrial Policy

Jonathan Robert Monnig
(September, 2023)
Queueing System Analysis in Oil and Gas Abandonment Operations

Holly Christine Greenberg Nihipali
(September, 2023)
Innovation Ecosystems in Geographically-Remote and Resource-Limited Regions by including Indigenous Populations and Ancestral Science, Knowledge, and Practices: Intentional Development in the Pacific Islands of Hawai'i, Fiji, and New Zealand

John Scudder Nothacker
Sensor Evaluation for a Low Cost Autonomous Surface Vehicle

Kentaro Numa
Assessing Photoelectric Fusion Technologies: Market Potential and Strategic Insights from NTT's IOWN Case

John Michael Nurthen II
(September, 2023)
Cybersecurity Risk Assessment Matrix (CRAM): A System-Theoretic Approach to Balancing Operational and Cybersecurity Risk Management of Transient Cyber Assets (TCA) in the Maintenance of Operational Technology

Javier Adrian Ocampo
(See also S.M., Course VI)
A Human-Computer Interaction Driven Inquiry into New Trust Signals that Adequately Map to the Risk of Interactions on the Web

Edgar Dos Santos Paca
(September, 2023)
Assessing the Technical Feasibility of Converting U.S. Salt Domes Used for Natural Gas Storage into Hydrogen Storage Facilities

Tanner Jordan Papenfuss
(September, 2023)
Organizational Data Journey

Drake Michael Platenberg
(February, 2024)
Characterizing Naval Ship Power and Energy System Metrics through Modeling and Analysis

Daniel Eduardo Reveron
Evaluating Network Scalability of Metaverse-Applicable Use Cases

Daniel Herndon Richards
Clinical Cost-Effectiveness as a Novel Metric for Steering Emerging Medical Technology

Prem Sagar
(February, 2024)
Exploring the Use of ChatGPT as a Self-Learning Tool for Arduino Coding & Circuit Building for Artists & Designers

Zachary Keith Schmitz
(See also S.M., Course VI)
The Impact of Thermostat Automation and Retail Rate Designs on Cooling and Heating Flexibility: Balancing Consumer Preferences and an Efficient Grid

Francisco Sepulveda Morales
Developing an Intelligent Tutoring Systems (ITS) Based on Error-Based Cognitive Architecture for Extend Reality Hands-On Training

Maryam Afzaal Shamsie
"Biomarkers" for Translational Success in Neurodegenerative Diseases: A Comparative Analysis of the Research to Practice Trends in Breast Cancer and ALS to Identify Systematic Indicators of Translational Success

Leroy Kudakwashe Sibanda
(February, 2024)
(See also S.M., Course VI)
Towards Implementing Modular Nuclear Reactor Systems for Developing Countries

Amandeep Singh
Effective Messaging for Tackling NIMBY to Accelerate Decarbonization

Anup Sreekumar
System Dynamics Modeling of Organizational Culture Transformation: a Study of the Organizational and Technical Factors That Affect the Implementation of Toyota Production System in Organizations.

Azfar Sulaiman
(See also S.M., Course VI)
Blueprinting AI Economics: Cost Assessment Framework for Non-Technical Stakeholders to Navigate Key Aspects in Prompt Engineering, Prompt Automation, and Fine-Tuning LLMs

Kensuke Suzuki
Effective Assignment of Construction Managers to Construction Sites

Stephen Michael Tainter
(September, 2023)
Enhancing the Quality and Breadth of Carbon Reduction Project Ideation and Roadmapping for Corporations

Leandra Tejedor
(See also S.M., Course VI)
Stylizing 3D Models With Generative AI for Fabrication

Florence Fernandez Thatcher
From Conception to Connection: A Systematic Approach to Integrating Remote Patient Monitoring in Fertility Management

Gabriela Alexa Torres
(February, 2024)
A Comparison of Privacy Requirements from the User Perspective in a Wellness App

Chetan Vinayak Vidhate
Measuring the Product Configuration Complexity and Cost for Mass-Customization of Automobiles

David Villegas Gonzalez
(February, 2024)
Lean Technology Roadmapping: Assessing the Value Path of Existing Approaches and Exploring Process Improvements

Yutaro Watanabe
Designing the Enterprise Architecture of an Innovative Plant Engineering Company

Dian Wen
Enhancing User Data Privacy and Trust through the Implementation of the OTrace Protocol: Development, Challenges, and Impact Assessment

Hanna Won
(February, 2024)
Integrated Model of a Floating Nuclear System for Hydrogen and Ammonia Production

Bryan Sheungwoo Yang
(September, 2023)
A Systems Approach to Understanding Organizational Structure and Employee Development in Tech Sector

Ray-Pern Yau
(February, 2024)
How Can Impact Investors Enable Systems Change? Exploring the Theory and Practice of an Emerging Field

Ayako Yukawa
Architecting Absorptive Capacity: Systems Framework for Open Innovation in Japanese Enterprises

Nadine Adel Ahmad Zaza
Integrating Futures: 'Culture Crates' Hybrid Digital-Analog Methodology in the Advancement of Cultural Education and Preservation

Zhao Zhang
(September, 2023)
Mitigating Investment Risks in Nature-Based Solutions: Strategies and Applications for Sustainable Project Development

Yushi Zhao
(September, 2023)
Subsurface Digital Twin and Emergence

Bingnan Zhou
An Approach to Developing a More Elastic Software Organization Architecture Through Building Innovation Capability and Managing Risks

Master of Science in Health Sciences and Technology

Program in Health Sciences and Technology

Noah Stanley Warner
A Framework for Detection and Observation of Radiation Chemistry Species on an Mr-Linac

Master of Science in Transportation

McKenzie Ross Humann
Course I
(See also M.C.P., Course XI)
From Pilots to Stable Services: Documenting the Rise and Diversity of Microtransit in the U.S.

Devin Camille Wilkins
Course XI
(September, 2023)
Towards Regional Rail: Strategies for Service Transformation on the Worcester / Framingham Line

Yen-Chu Wu
Course XI
Optimizing In-Garage Charging Schedules to Maximize Electrified Mileage for Electric Bus Fleets

Naval Engineer

Course II
Department of Mechanical Engineering

Asia Mon'a Allison
(See also S.M., Course II)
Design and Modeling of Offshore Nuclear Platform Fuel and Transfer System

Jonathan Jerald Daus
(See also S.M., Course II)
Magnetohydrodynamic Induction Pump Jet Propulsor for Undersea Vehicles

Christos Gkiokas
(See also S.M., Course VI)
Innovative Floating Wind Turbine with Synthetic Mooring System and Feasibility Analysis of a Solar-Wind-Battery Hybrid System

Thinh Bao Hoang
(See also S.M., Engineering and Management)
Exploring Trade-Offs and Emergent Properties of Heterogeneous Swarms of Maritime Robot Systems through Empirical Analysis and Application-Driven Experiments

Mikala Nikole Molina
(See also S.M., Course VI)
Methods for Testing COLREGS Compliance in Autonomous Surface Vessels

Christopher John Sarao, Jr.
(See also S.M., Course II)
Design and Modeling of Pneumatic Mechanism for Improved Indirect Liquid Cooling of Shipboard Power Electronics

Katherine Charlotte Spaeth
(See also S.M., Course II)
Addressing Challenges of Volume Controlled Cavity Expansion (VCCE) for In-Vivo Tissue Testing

Jason Bradley Webb
(See also S.M., Course II)
Using Multiple Objective Optimization for Autonomous Sailing Vessels

Heather Lynn Willis
(See also S.M., Course VI)
Analysis of Data from the U.S. Shipbuilding Industry and Application to Improve Performance Metrics

Electrical Engineer

Course VI
Department of Electrical Engineering and Computer Science

Thomas Charles Krause
(February, 2024)
Sensing for Electromechanical Systems (S.M. thesis September 2021)

Aaron William Langham
An Enhanced Signal Processing Toolbox for Electrical Energy Monitoring

Goran Živanović
(February, 2024)
ExoSpotter: Few Shot Relevance Feedback For Learning High Recall Exoplanet Search

Engineer in Computer Science

Course VI
Department of Electrical Engineering and Computer Science

Samuel DeLaughter
(September, 2023)
(See also Ph.D., Course VI)
A Comparative Analysis of Denial of Service Vulnerabilities in Network Protocols (S.M. thesis, February 2019)

Master of Engineering 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

Jordan A. Billings
Using Machine Learning to Differentiate Set Pieces in Football via Tracking Data

Jason D. Lee
Decoding the Depths: Developing a Whale-Click Separator for Predictive Speaker Recognition in Sperm Whale Conversations

Rupert Michael Li
(See also S.B.,Course XVIII)
Semidefinite Programming Bounds for Codes in Complex Projective Space

Alice Martynova
Modern Change at Charter Schools: New Evidence from the Noble Charter Network

Matthew Fellows Nay
Decentralized Social Networking Protocol (DSNP) and User Empowerment: An Analysis of Online Identity Ownership, Data Privacy, and Comparative Assessment with Other Decentralized Protocols

Christopher William Noga
Estimating Residential ESG Preferences

Kirsi K. Rajagopal
Equity Considerations in Bus Transportation Electrification at the Depot Level

Karyn N. Real
Developing a Machine Learning Based Automated Screening Tool to Diagnose Silent Heart Attacks in Resource-Constrained Settings

David M. Vapnek
The Value of Variance in Major League Baseball

Nina Y. Wang
Investigating the Structural Evolution of Ad Design: Computational Analysis of Information Content and Interactivity in Ads

Caroline C. Warren
A Multi-Industry Exploration of Model Flexibility and Performance Trade-Offs in the Era of Artificial Intelligence and Advanced Computing

Isaac S. Zhang
Computing Equilibria in Colonel Blotto by Applying Counterfactual Regret Minimization Using a Layered Graph Representation

Stan Zhang
Equal Subset Sum Problem and its Variations

Tianyuan Zheng
The Effects of Mandatory Advanced Placement Curriculum Policies on Achievement, Graduation, and College Enrollment

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES

Master of Applied Science in Data, Economics, and Development Policy
Course XIV
Department of Economics

Shotaro Beppu
(September, 2023)

Barbara de Alencar Pitombeira
(September, 2023)

Krishna Bhaskar Devarakonda
(September, 2023)

Abiel Abdonel Devilme
(September, 2023)

Raymundo Duran Lozano
(February, 2024)

Donald James Eastwood
(September, 2023)

Chee Wee Koh
(September, 2023)

Sitara Kumbale
(September, 2023)

Ayesha Imran Malik
(September, 2023)

Sofía Martínez Gálvez
(September, 2023)

Gevorg Minasyan
(September, 2023)

Erich Natsubori Sato
(September, 2023)

Teddy Onserio
(September, 2023)

Neil Devesh Patel
(September, 2023)

Luisa Pereira Monteiro Proenca Cerca
(September, 2023)

Crystal Jing Qian
(September, 2023)

Wan Yun Tan
(September, 2023)

Hidenobu Tokuda
(September, 2023)

Rohit Tripathi
(September, 2023)

Ignacio Alejandro Urrea Bordones
(September, 2023)

Celine Wuyts
(September, 2023)

Master of Science in Political Science
Course XVII
Department of Political Science

Nicholas Wolf Ackert
(September, 2023)
Explaining Middle Power Military Intervention: Australia's Use of Force in Maritime Southeast Asia and the South Pacific

Liberty R. Ladd
(See also S.B.,Course II)
Effects of Ranked Choice Voting and Run-off Elections on Voter Participation

Ziyi Wu
Outsiders in Media: Sense of Foreignness and the Support of Censorship in China

Suyeol Yun
(February, 2024)
Decoding Congressional Stock Trades: An Industry and Committee-Focused Analysis with Graph Neural Network and Large Language Model

Master of Science in Science Writing
Course XXIW
Program in Writing and Humanistic Studies

Daelin Simone Shelton Brown
(September, 2023)
Keeping New Orleans Afloat

Elizabeth Gamillo
(September, 2023)
Tuning into the Planet: Scientists are Collecting and Archiving Soundscapes before They Disappear

Allison Paige Guy
(September, 2023)
Ecosystem Reboot: How Scientists are Building an Inside-Out Noah's Ark for Florida's Vanished Coral Reefs

Phie Grayson Jacobs
(September, 2023)
Abortion Beyond the Binary: Transgender People Have Historically Been Left Out of Abortion and Reproductive Health Research. Now, Two Researchers Are Bringing Their Experiences to Light

Vishva Nalamalapu
(September, 2023)
The Sleepless Forest Observers

Abdullahi Tsanni Nuhu
(September, 2023)
The Consumer of Humans

William Burgoyne von Herff
(September, 2023)
Under Their Own Laws: How the Kitasoo/Xai'xais First Nation Created a New Marine Protected Area — without the Federal Government's Approval

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

Zachary John Thomas La Rock
(September, 2023)
Chemistry in a New Key. Surplus, Soy, and the History of Sustainable Enterprise in the United States, 1934-1950

SLOAN SCHOOL OF MANAGEMENT

Master of Business Administration
Course XV-A (Sloan Fellows)
Sloan School of Management

Moaz Afzal

Yael Agmon

Omar Abdulaziz Alblehed

Feras ALDebasi

Alana Alencar Coelho

Fahad Saleh Alismail

Ayobami Olumide Aluko

Sergali Amirbekov

Ryunosuke Ando

Jian Wei Ang

Raafet Azzouz

Artur Bardera Echeverria

Laura Elizabeth Bautista Pérez

Amrita Bhattacharya

Nadine Amaotiwaa Boakye

Nasiru Braimah

Rodrigo Casarin de Oliveira

Tegan Louise Case

Bryan Ken-Chin Chao

Zhi Chen

Natasha Nyasha Chifamba

Diana Choi Kim

Renan Fleury Pereira Cunha

Safiyah Dahbi Skali

Erin Melissa Dawicki

Pablo Espuela Martin

Michelle Elizabeth Ewy

Franck Kouakou Ola Fade

Mattia Emidio Filiaci

Jocelyn Anne Foulke

Swati Garg

Alexander Garifulin

Sheila Genesine Dada

Ker Wee Goh

Cesar Gerardo Gomez Aldape

Gerardo Andrés Guerra Quintanilla

Andres Yoon-Jung Ha Chun

William Grant Charles Harding

Masahiro Hayashi

Joesph Hayut
Offline Reward Learning from Human Demonstrations and Feedback: A Linear Programming Approach

Joseph A. Hollingsworth III

Sarah Taimoon Zaida Hosein

Matthew Dean Howard

Bifeng Huang

Xiaohong Huang

Zaher Ibrahim

Hyewon Im

Hyedong Jeong

Hojin Jung

Minchul Kang

Grant Miller Karshner

Masayuki Kawahashi

Mark Reed Ketchum, Jr.

Sun Young Kim

Jeffrey Kenneth Knauer

Netta Koren

Atsunori Kushiyama

Talgat Kutbay

Fernando José Lanús

Sang Yeup Lee

Patrick Ondracek Lemouche

Liang Liao

Hun Pin Lim

Yanling Liu

Leonardo Magalhaes Lott

Rajit Malhotra

Christopher Paul David Mamaux

Muhammad Najib Masdan

Brian McNaboe

Jackson Robert McWade

Patrick Anguzu Munduga

Javad-ul-Mutayyab Mushtaq

Barbara Birungi Mutabazi

Kishanthan Nadarajah

Omri Yitzhak Nahmias

Hyacinthe Naré

Windy Natriavi

Umbereen Sultana Nehal

Masahiko Ogawa

Taísa Oliveira Maciel

Brenda Bi Hui Ong

Oghenemaero Ufuoma Onwah

Deepak Joseph Parayanken

Albert Pek

Lawrence Petit-Frere

Hee Yau Phoon

Rebeca Nicolas Pinheiro

Andres Pombo

Lea Gabrielle Potts

Erika Viviana Ramirez

Abhishek Ravindra

Tomas Rivadeneira Hurtado

Anthony Stephen Roa

Lilian Cléa Rodrigues Alves

Adi Adina Rubinstein

Gaurav Kumar Saini

Manuel Alejandro Sánchez Castro

Juan Pablo Santos

Andrea Sartor

Luis David Sena Fañas

Wonhee Seo

Noga Shachar Schleyer

Caio Silva Barbosa

Woohyong Song

Yuki Suga

Hiromasa Suzuki

Rie Tomita

Victoria Eugenia Tostado Bringas

Ikechukwu Chima Ume

Alberto Souza Vieira

Gabriela Viera Alegria

Xuejing Wang

Jinhua Zhang

Gad Zuaretz

Master of Business Administration

Course XV-E (Executive)
Sloan School of Management

Hassan Ajwad Abbas

Venkatesh Alagarswamy Govindaraj

Tunca Alikaya

Mohamad Adnan Alkhouli

Micaela Brandy Alvarez

Ilya Leonidovich Aranovich

Karolina Athanasopoulou

Joanna K. Avery

Benedict Johannes Karl Bachstein

Juan Pablo Barros Rubio

Alyssa Paige Beatty

Saloni Samir Behl

Mohamed Karim Bennis

Theodore Alton Blaine

Howard Warren Buffett

Bonita Jean Burke

Courtney Evans Caswell

Jun Chen

Juan E. Clariond

Emily Caples Clark

M Alicia Temple Clark

Charles John Clarkson

Jaime Coronado Barbosa
(February, 2024)
Digital Transformation in Sales and Operations Planning

Jaime Correal

Racquel Belen Cross

Broghan Meredith Cully

Matthew Adam DePaolis

Renato Anthony DePaolis II

Ryan James Doherty

Farida Elif Douiri

Geoffrey Robert Downing

Richard Drazin

Paul Francis Farrell, Jr

Mark S. Franco

Thiago Amaral Gaspar

Ghassan Richard Ghorayeb

Kohei Hasegawa

Chieko Jocelyn Hayashi

Connor Patrick Henley

Paul J. Hlivko

Thomas Hudner Howd

Alberto Enrique Huasasquiche Montoya

Scharukh M. Jalisi

Heather S. Jankins

Hemanth Kaligotla

Muralidharan Kannan

Michaela Rita Kaufmann

Aiman Khan

Aaron Michael Kilinski

HyungJoo Kim

Soujanya Kolla

Kalyan Chakravarthy Koneru

Delfi Krishna

Swetha Krishnan

Todd Lyndon Kurth

Neil Fredrick Larson

Katherine M. Ledoux

Vanessa Lee

Patrick Wayne Little

Humberto Lopez Mata

Karen Luu

Karim Sami Malek

Dawn Marie Marchand

Fortune H. Masawi

Mo McNally

Erin Kathleen McPike

Jennifer Ulanda Miles-Thomas

Rumna Mishra

Colby Lauren Moore

Conrado Honorato de Morais

Eleanor Elizabeth Morgan

Kristy Morse

Timothy Paul Mui

Subrahmanya Ravi Kiran Mullapudi

Dilip Nataraj

Manish Nigam

Wade Austin Oliver

Omar Jacques Omran

Tilak P. Palanisamy

Andrew Isaac Pankin

Pankaj V. Paranjpe

Patrick Lee Parker

Breana Patel

Gabriel Oscar Peláez Carbone

Stanislav Petrenko

Narin Phol

Carolina Piras de Oliveira

Jesús Alberto Quiñones Flores

Rodrigo Rogelio Ramos

Elder Recinos

Eric Bradly Redmond

Daniel Conor Richert

Eric Harmon Rosenkranz

Aleksandra Safarova

Nishank Saxena

Michael Patrick Sechrist

Samy Samir Sidhom

Vincent Sigismondo

Jeffrey Singer

Malagalage Don Ehantha Sirisena

Arvind Srinivasamoorthy

Tyler E. Staal

Tiffany Sullivan

Prasad Sumant

Weiyi Sun

Rui Tang

Flavius Mihai Toma

Franco J. Torres

Maria de los Angeles Torres-Castillo

Ryan Cosmore Troy

Jonathan Edward Upton

Felipe Eduardo Valdes Diaz

Manas Venepally

Melissa Vettraino Bachstein

Anna Vidyakina

Juan Diego Villegas

Thomas Westerling-Bui

Lisandra Evelyn Wilmott

Glenn Andrew Wilson
System Dynamics of Carbon Capture and Storage

Joshua Edward Witkowski

Kwan Yee Queenie Wong

Xin Tong Wu

Shan Xing

Timothy Matlack Yarnall

Yahia Zemoura

Master of Business Administration

Course XV
Sloan School of Management

Mohamed Osman Abdalla

Omar Abouzid

Haben Yemane Abraha

Alanoud Abulhamayel

Alexander Adekunle Adelabu
(See also S.M., Course I)

Siddhant Agrawal
(See also S.M., Course I)
Digital Twin-Driven Supply Chain Enhancement to Support Direct-to-Consumer Growth

Marcelo Oliveira Aguiar
(See also S.M., Course II)
Economic Comparison of Solar Racking Options to Decarbonize Florida Power & Light's System

Mohd Ahmad

Yu Aizawa

Maleek Ayoola Akeju

Amos Adu Akoto

Nicolás Octavio Hermenegildo Albers-Schönberg

Abdullah Abdulrahman Aldhalaan

Alyssa M. Alexander

Amjad Alhumaidi

Ibrahim Saud I Alibrahim

Tracy Joseph Allen, Jr.
(See also M.C.P., Course XI)

Kaitlyn Nicole Alsup

Jose Maria Amich

Juan Pablo Armas Saenz

Alberto Arrighi

Julianna Rose Aucoin

Ibitola Ayodeji Ayorinde

Irina Denise Baek

Maria Teresita Baeza Soffia

Saman Baghestani

Taniya Bajaj

Brendan Barron

Dhruv Bathla

Samantha Michelle Bautista

McCoy Stephen Bean

Tobias Fabian Beck

Andrea Laura Bejarano

Marko Bejatovic

Javier Alejandro Bello Medina

Isabel Paterno Benares

Andrés Besa Bandeira

Shivam Bhakta
(See also S.M., Course I)
Sustainability Analytics-Lowering Emissions with Operational Efficiency

Kirthana Bhat

Prianka Bhatia

Ashwin Bhide

Nur Izzat Aiman Bin Nur Aziz

Stephanie Alexandra Blair

Timothy Robert Blomfield

Naomi Paige Bolze

Mathieu Bourguignon

Sebastien William Boyer

Christian Pearl Bradley

Leighton Anne Braunstein

Eugene M. Breaux III

Ellen Marie Bredenkoetter

Raul Manuel Briceno Brignole
(See also M.C.P., Course XI)

Alinna Anuzis Brown

Nicholas Connor Brown

Huong Thu Bui

Kara Burns

Brandon Charles Busuito

Robin Cambridge Butler

Yuqing Cang

Daniel Jacob Capelin

Giuseppe Edoardo Capolino

Erica Irene Cappon

Diego Jose Carrasquillo Martinez

Juan Felipe Castaño

Regina Ceballos Mondragon
(See also S.M., Course VI)
Improving Supply Chain Resiliency through Solar Panel Delivery Optimization

Priya Sara-Elanjikal Chacko
(See also S.M., Course II)
Accelerating the Integration of Low-Volume, High-Mix Production Organizations

Gracy Chen

Jackie Chen
(See also S.M., Course VI)
Clustering of Similar Incident Tickets Using Natural Language Processing

Mindi Man-Yee Chen

Richard Polin Chen

Shirin Chen

Stacey Chen

Matthew Dominic Chew Ming Chang
(See also S.M., Course XXII)
Site Selection, Vendor Evaluation, and Deployment of Nuclear Microreactors in Remote Mining Operations

Kundai Tadeous Chifamba

Sungi Cho

Namit Paresh Choksi

Eric Chow

Michael Christian

Dawon Chung

Leo Francis Cohen

Rebecca Lyn Cohen
(See also S.M., Course I)
Oil & Gas Regional Operations Electrification Estimation

Austin Kristopher Cole
(See also M.C.P., Course XI)

Domingo Jose Concha, Sr.

Taylor Phelan Conley

Juan Fernando Correa Nunez
(See also S.M., Course II)
A Data Driven Approach to Uncovering Energy Consumption Reduction Opportunities Within Industrial Operations

Giacomo Corti

Alec Ryan Creta
(See also S.M., Course II)
A Strategic Framework for Evaluating Next-Generation Technologies in Biocatalysis

Christopher Laurence Crouch

Juan José Daboub Silhy

Rupen Amritlal Dajee

Rachel D'Apice Daniel

Gregory Alexander Davis
(See also S.M., Course II)
Semi-Automatic Nesting and Lean Problem Solving in a High-Mix Low-Volume Production Environment

Amar Madhukar Dayal

Rolando Amin de la Cruz Alvarez

Pablo De la Fuente Gonzalez

Margarida Tello da Gama Leao Ponce de Sousa

Marta Dern Simon

Jeanne Camille Desriac

Tynan Bourne Dewes

Ignacio Diez de Rivera de Solis

Jieqing Jaclyn Ding
(February, 2024)

Sophia Isabel Diserio

Grace Klein Donahoe

Brian Joseph Dougherty

Olivier Duler

Juan José Durán Londoño

Cameron Dashaun Easley

Jack Zhou Easley
(See also S.M., Course I)
Engineering Strategy for Reshoring

Karen Obiageli Ejiofor

Dany El Kfoury

Katherine Adams Elfers

Josefina Elsaca

Ezgi Emiroglu

Dashnamjil Enkhbayar

Cristobal Errazuriz Bulnes

Manuel Alejandro Esparragoza

Austin Johannes Evers

Cameron Lee Field

Harrison Philip Florence

Leo Alexander Fondriest

Branden Thaddeus Francis
(See also S.M., Course II)
Minimizing Total Delivered Cost of Stamped Assemblies Through Sourcing Optimization

Danielle Erin Fregia

Yi Minnie Fu

Leah Paige Gaffney
(See also S.M., Course VI)
Extracting Coronary Lesion Information from Angiogram Reports for Patient Screening Applications

Luis Enrique Garcia Cordero

Raghav Garg

Olivia Juliet Gebhardt

Itay David Geist

Abraham Gebreab Gerzeghier
(See also S.M., Course II)
An Environmental Impact Assessment of 3D Printed Medical Devices

Daniel Giambrone

Tal Florence Gilad

Ingrid Glitz de Assis

Jennifer Goncalves

Hugo Alberto González de la Fuente

Hunter Reed Goodson

Chad Anthony Gordon

Hilary Belle Greenberg

Ismael Güereca Valdivia
(See also S.M., Course X)
Preemptive Variation Reduction in Biologic Drug Substance Manufacturing

Santiago Guerrero Valderrama

Yuzhi Guo

Wendi Guraziu

Doğan Gürbeden

Soniya Gurung

Juan Jose Guzman

Ruben Guadalupe Guzman

Evan Guang Haas
(See also S.M., Course II)
Optimization of Thermoplastic Composite Manufacturing with Digital Process Intelligence

Matthew A. Habel
(See also S.M., Operations Research)
An Analytical Framework for Planogram Portfolio Optimization

Fardina Habib

Jaylen Kirvath Hackett

Lucia Haito

Mary Alden Hancock

Katie Louise Hango

Micheil Moanes Micheil Hanna Banoub

Caeley Gaw Harihara
(See also S.M., Course VI)
Optimization and Rule-Based Models for Hospital Inventory Management

Sarah Elizabeth Harmon

Alec Harold

Tess Edna Harper

Peter Richard Harris

Heidi Jill Hatteberg
(See also S.M., Course II)
Product SKU Analysis, Rationalization, and Optimization

Siran He

Mitchell Henstock

Justin Enrique Hernandez

Toru Hirata

Cameron Thomas Gerald Hoffman
(See also S.M., Course I)
Modeling System Efficiency in Mixed-Model Assembly Lines

Andrew Frederick Holden

Nicholas Jay Holmes
(See also S.M., Course II)
Scheduling in a High-Mix Low-Volume Job Shop

Shinjiro Honda

Elizabeth Enoch Hong

Edward Hu

Tianxing Hu

Aoying Huang

Danwei Huang

Jia Xin Huang

Steven Francis Hubbard, Jr.
(See also S.M., Course VI)
Empowering Delivery Service Partners: A Study on Leveraging Generative Artificial Intelligence and Text Clustering to Support External Partners

Clarissa Gaylord Hunnewell

Rebecca Arthur Hutman

Alexis Marie Iderman

Monica Isabel Idrovo

Isabella Impelliziere Fernandes

Gabriella Maria Jennett

Brent Jiang

Irene Guo Jiang

Pablo Jimenez Zapata

Jing Jin

Bryant Eugene Johnson

Dominique M. Johnson

Olivia Jane Jones

Robert Paul Jones
(See also Ph.D., Course X and S.M., Course X-A)

Dayquan Antonio Julienne

Dennis Michael Kamara

Justin Michael Kan

Gowri Kannan

Lipika Kapoor

Alexa Brooke Katz

Jessica Kelemen

Katherine Elizabeth Kelly

Kieran Paul Kelly

Delaney Josephine Kerkhof

Maria Khim

Ping King

Ian Alexander Kleinemolen
(See also S.M., Course II)
Inventory Optimization and Simulation Analysis for Supply Chain Disruption Events

Ryan Poe Kochert
(See also S.M., Course VI)
Process Digitalization: 3D Deep Learning in Manufacturing Applications

Nived Kuruvilla Kollanthara

Devi Maharani Kosa

Sara Talia Kramer

Neha Krishnamachary

Alvin Kusuma Kustedjo

Nino Kvirikashvili

Tolulope Abimbola Ladele

Trenton Lam

Shea Annelise Landeene

Rachel Alyssa Lang

Emily Patricia Larson

Dana Quỳnh-Vân Lê

Quoc Hung Le

Victor Leão Alvarenga de Medeiros

Jessica Ellen Lee
(See also S.M., Course II)
Leveraging Digital Tools and Analytics for Temperature Management in Cold Chain Systems for Gene Therapies

Konsang Lee

Nelson Rafael Lee

Evan Daniel Lefkovitz

Alexys Nicole Leija

Benjamin Daniel Lerman
(See also S.M., Course II)
Techno-Economic Analysis of Line Haul and Switcher Locomotive Propulsion by Diesel, Battery, and Hydrogen Fuel Cell Technologies

Gad Aaron Lewinsohn Israel

Ruoqi Li

Benjamin John Likis

Cheng Hui Lim

David Linstone

Sandy Jia Liu

Stacy Lily Liu

Molly Rose Livingstone

Evan Caldwell Long
(See also S.M., Course II)
Secrets of the Aluminati: Bottleneck Assessment within an Aluminum Rolling Mill

Ilia Lotov

Thomas Tadashi Luly

Andrew Lydon

Luis Arnaldo Machado Roberty

Hiba Rameen Mansoor

Luna Maroun

Luis Martín López

Anandha Matrakul

Andrew Luke Mazof

Meghan Rose McAneny

Khalid Marcellus McCaskill

Elizabeth Grace McLarty

Brandon Patrick Meehan
(See also S.M., Course II)
US Green Hydrogen Production: Strategic Approaches to Enhancing Economic Viability and Market Development

Rhea Mehta

Mark Bryant Membreno
(See also S.M., Course I)
Price Elasticity of Air Travel Demand Using Econometric and Machine Learning to Scale Up Sustainable Aviation Fuels

Ashley Leyong Meng

Maurício Menossi Neto

Abigail Ruth Meyer

Danaé Marine Miao

Nicholas Dean Miller

Fabian Mohr
(See also Ph.D., Course X)

Santiago Molina

Valerie Alessandra Moreyra

Scott Morgan

Justin William Morris

Spencer Harry Victor Morris

Miranda Elizabeth Morton

Parinaz Motamedy

Christopher Mui

Rounak Mukhopadhyay

Sophia Anna Mullineaux

Blanca M. Murga
(See also S.M., Course XVI)
How Complexity Drives Long Lead Times: A Queueing Theory Space Industry Application

Daniel Talbott Murphy
(See also S.M., Course XXII)
Shutdown Dose Rate Modeling for Radiation Requirements Development and Design Trend Analysis in the ARC Fusion Device

Mariama N'Diaye
(See also M.C.P., Course XI)

Nadine Naboulsi

Shunsuke Nakano

Misha Arun Nathani

Abhilasha Negi

Julie Elizabeth Newman

Nathan Nam Nguyen

Tien Nguyen

Teodor Nicola Antoniu
(See also S.M., Course VI)
Enhancing Digital Customer Self-Service Efficiency through Recommendation Systems

Kanyakorn Niyomsatian

Isabela Nogueira Reis

Thomas Daniel Nowinski

Obianuju Lilian Nsofor

James Patrick O'Brien

Chizitere Obioha

Takuya Odagiri

Jiwoo Oh

Donald Odira Okoye
(See also S.M., Course VI)
Evaluating New Business Opportunities for Interregional Transmission

Ololade Opeyemi Olaleye
(See also S.M., Course VI)
Machine Learning and Stochastic Simulation for Inventory Management

Maria Alejandra Olazabal Tamayo

Juliana Baratta Oliver

Pablo Omenaca Muro

Alexandra Caroline Orsky

Ayodele Christian Owopetu

Tomas Victor Pardiñas

Joon-Sung Park

Aqil Pasha

Harsh Patel

Richa Patel

Alexandra Marie Patterson

Henry Archer Patton

Oyindamola Pedro

Christina Michelle Peña

Mario Enrique Pena

Ryan Anthony Perkins

Lisia Astari Pertiwi

Ross Christie Phillips

Tomas Agustin Pichel

Passachai Polanunt

Yanghan Qi
(See also S.M., Course I)
Building Inventory Simulations for High Velocity Garment Retail Stores

Kelly Naiyao Qiu

Jedidiah Thomas Hiss Quint

Anthony Franklyn Ramirez

Beatriz Elena Ramirez

Shubhangi Rana

Miriam Akushia Randolph-Akushie

Surya Teja Raviillu

Kunal Rayakar

Roy Reinhorn

Grant William Rice

Blake Constantine Ridley

Peter Graves Hewitt Riley

Camila Rioseco Mercado

Jacob Rizika

Noah Wolfe Roberts

Matthew Cole Robins
(See also S.M., Operations Research)
Enhancing Middle-Mile Inventory Management Policies Through Simulation and Reinforcement Learning

Annika Lynn Roise

Andres Romero Pompa

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

Sierra Nicole Rosenzweig
(See also S.M., Course I)
Greenhouse Gas Optimization Across a Multi-Echelon Manufacturing and Distribution Network

Charlotte Rachelle Ross

Pedro Vladimir Russell

Jean Ruwet

Mochammad Dimas Andra Saputra

Priyamvada Saraf

Minoru Sasaki

Yotaro Sasaki

Stefan John Sayre

Max Schotz

Kathryn Gabriella Sessa

Payton Jane Sessions

Mark Toshimitsu Ghun Cheung Seu

Stéphanie Emmanuelle Sévère
(See also S.M., Course I)
Creating the Warehouse of the Future

Karishma Sewaramani

Hehe Shen

Marina Shibutani

Nandika Shivayogi Angadi

Benjamin Joshua Shtuhl

Bryan Samuel Silverman

Miles Jordan Silverstein

Lucrecia M. Siman

Gabriel Siman Machon

Gaiane Simonian

Ignacio Siska Aguilar

Stephanie Birgitta Elisabet Sjoblom

Kaye Anderson Slamp

Skylar Wakelee Smith

Joanne So

Desi Soetanto

Ayabulela Solombela

Natcha Sophonpanich

Maria Agustina Azul Soriano Sergi

Jackson Murphy Spilka

Theodore Francis Squires

Max Alexander Sterling

Alexandra Marissa Sugarman

Mark David Sweet, Jr.
(See also S.M., Course II)
Breaking the Mold: Using Automated Design to Accelerate Composites Manufacturing

Criselda C. Low Tay Sy

Santiago Tagle Llamosas

Kyoko Takagi

Angelique Marie Aure Talmor

Suwapat Tasawat

Isabelle Tashima

Yaphet Tedla

Alain Teh Yaoyuen

Carlos Eduardo Teysseire

Sitanan Thamparanon

Marie-Renee Thomas

Alexa Katherine Tarleton Thompson

Luke Gianni Tortora

Allison Chang Tsay
(See also S.M., Course XVI)
Framework for Enhancing Decision-Making Capabilities in the Decarbonization of the Airline Industry

Hoi Yee Jocelyn Tse

Nasan Tsengeg

Nana Tsuchiya

Tohori Tsuchiya

Abhinav Tyagarajan

Uapoom Uanarumit

Anton Ulyanov

Matias Umaschi

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

Sajiree Vivek Vaidya
(See also S.M., Course I)
Data Roadmap for Last Mile Sustainability

Timothy Thomas Valicenti

Ernst Hendrik van Biljon

Georgios Varelas

Carlos David Vela González
(See also S.M., Course I)
Resilient by Design: A Supply Chain Digitalization Journey

Luis Carlos Velásquez Mansilla

Ana C. Vendemiatti Haddad
(See also S.M., Course II)
Optimizing Integrated Continuous Biomanufacturing Throughput: Resource Constraints and Process Scheduling

Adam Donald Vignaroli
(See also S.M., Course I)
Establishing Inventory Maturity in a Make-To-Order Manufacturing Environment

Bohdan Igorovych Volyanyuk

Hannah Jaffe Walter

Alice Wang

Sharon Shuo Chun Wang

Zachary Lynn Wang

Reimar Weißbach
Scaling Metal Additive Manufacturing from R&D to Production

Daniel Thomas Willette
(See also S.M., Course I)
Paths to Achieving Scope 1 Carbon Neutrality in Building Utilities

Kyle Maxwell Williams

W. Grant Windom

Olga Gabriela Wołowiec

Lili Wondwossen

Tong Wu

Haruka Yamashita

Yicheng Yan

Karen Ke Yang

Rong Yao
(See also S.M., Course I)
Delivery Estimate Accuracy: Understanding and Reducing Virtual-Physical Mismatches and Missorts in Fulfillment Centers

Shuman Ye

Sabrina Yu-Ling Yen

Emily Mengyue Yu

Carlos Andres Zambrano

Biying Zhang

Wenqing Zhang

Siyu Zhao

William Zheng

Quan Zhou

Magda Helena Zydzik

Master of Business Analytics

Course XV-N
Sloan School of Management

Austin Edward Ader
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Phakjira Tanaboriboon
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Master of Finance

Course XV-F
Sloan School of Management

Pranay Agrawal
(February, 2024)

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(September, 2023)

Borys Babiak
(February, 2024)

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Tingyu Chen
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Tyson Amar Dennis-Sharma
(February, 2024)
Forecasting Equity Volatility Dynamics with Markov-Switching EGARCH Models

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Yun-Shu Huang

Yunjia Huang
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Da Huo
(February, 2024)
Efficient Estimation of Stochastic Parameters: A GLS Approach

Xingyao Jiang
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He Zhu
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Master of Science in Management Studies

Course XV-S
Sloan School of Management

Maxime Alain Allouch
No Time to Train? Lessons from CEO-Athletes

Taieb Bennani
Advancing Healthcare with GenerativeAI: A Multifaceted Approach to Reliable Medical Information and Innovation

Qiwei Chen
From Private to Public: Why Do Alternative Asset Managers Go Public?

Aïda Sadio Diallo
Financial Inclusion in Sub-Saharan Africa: A Multidimensional Index

Wenzhe Dong
Strategic Transformation Trends within Automobile Supply Chains in the Post-Pandemic Era

Apolline Dupont
Reimagining the Impact of Large Financial Deals Towards a Holistic Evaluation of Economic and Societal Consequences: The Case Study of Veolia Suez

Gaspard Alain Frank Ginolhac
Performance of The Private Equity Industry During Depressed Macroeconomic Conditions

Jorge Grima Sumarroca
Investment Thesis and Valuation of Soccer Clubs

Weizong Han
Private Equity Secondaries: A Comparative Analysis on the US and Chinese Markets

Eric Robert Haywood
Strategy for an Agricultural Workforce Platform Enabled by AI

Aliki Lavda
Exploring the Intersection of Management Practices and Bottom of the Pyramid Economics in Developing Countries

Zixuan Li
Investigating Generative AI Use for Academic Work among College Students: Potential Impact and Policy Implications

Anna Louise Elisabeth Mathy
From Prohibition to International Recognition: Key Factors Driving the Development of California as a Premier Wine Region

Enrique Marcos Müller Imbern
Market Making & Liquidity Provision in Developing Economies

Matthieu Arnaud Georges Jacques Perrin
Enhancing Competitive Rebalancing in Sports Through Social Investment

Richard Victor Rémy David Robinet-Duffo
How Can Brands Try to Influence Social Norms?

Francisco Guevarra Roman
Bridging Digital Transformation Gaps in Southeast Asia

Fotios Sarantopoulos
Decarbonizing the Shipping Industry through Innovative Technologies, Artificial Intelligence and New Regulations

Ting Shen
Innovation and Strategy in the Food Industry: Trends, Challenges, and Implications for New Entrants

Matteo Spiller
Unearthing Regulatory Influences on Climate Risk Adaptation: Exploring Asset Stranding and Regulatory Shortcomings in the US Housing Market

Yosuke Tamura
How Can We Promote Impact/ESG Investing by Stimulating Altruistic Behavior?

Thierry Francis Marie Pierre Vanparys
(February, 2024)
How Actors and Groups in the Family Business System Influence Innovation in the Family Business: An Analytical Framework

Wei Wang
The Study of ESG Strategies on the Development and Financial Performance of Traditional Energy Enterprises Using System Dynamics - A Case Study on One Oil and Gas Company

Jing Yang
Beyond Evergrande: Rethinking Real Estate Market in China and the USA for Long Term Growth and Sustainability

Kai Liang Yeo
Open Innovation in Alternative Protein: A Review

Chen Zhang
Experience and Business Woes of a Major Chinese State-Owned International Engineering Company in Venezuela

Rui Zhu
Hong Kong's Transformative Journey Under 'One Country, Two Systems': Processes, Trends and Reflections at the Midpoint

Yangluyao Zou
Digital Mental Health in the Corporate Sphere: Evaluating Trends, Tools, and Impacts on Organizational Dynamics

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

Evy Wei Chen
Retail Media Networks as Ad Revenue Model for CPG Brands

Johannes Galatsanos-Dueck
Re-Imagining Drug Discovery with Quantum Computing: A Framework and Critical Benchmark Analysis for Achieving Quantum Economic Advantage

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

Charles Edwin Downing
(February, 2024)
The Determinants of Voluntary Carbon Emissions Targets

Yuxin Han
Impact of Litigation Financing Disclosures on Patent Litigation

Sunghyo Kim
Box Jumping: Portfolio Recompositions to Achieve Higher Morningstar Ratings

Jiageng Liu
Measuring Human Capital Investment on the Job

Jose Luis Lopez
(September, 2023)
Opportunities for System Dynamics Research in Operations Management for Public Policy

Cameron Charles Martel
(September, 2023)
Are Fact-Checks Effective Even for Those Who Distrust Fact-Checkers?

Reed Isaac Orchinik
Uncommon Errors: Adaptive Intuitions in High-Quality Media Environments Increase Susceptibility to Misinformation

Karen MacKenzie Scott
(September, 2023)
Workforce Practices & Organizational Performance in Nursing Homes: Implications for Resident Health and COVID-19 Containment

Jaeyun Song
Online Mingling: Supporting Ad Hoc, Private Conversations at Virtual Conferences

Di Tong
Beyond Wages and Employment: Do Minimum Wages Affect Management Practices?

Bradley R. Turner
(September, 2023)
The Storytelling Entrepreneur Has No Clothes: Rewards and Risks of Narrative Pitching

Yuting Wang
(February, 2024)
Does Investors' Belief on Other Investors' Information Acquisition Affect Trading and Price?

Cindy Zhang
Climate Change and Municipal Bond Ratings

Victoria Yiluan Zhang
Organizational Culture, Class Values, and Subordination at Work

Master of Science in Operations Research
Sloan School of Management in conjunction with the Schwarzman College of Computing

Matthew A. Habel
(See also M.B.A., Course XV)
An Analytical Framework for Planogram Portfolio Optimization

Qingxuan Jiang
(February, 2024)
Choice Modeling and Assortment Optimization on the Transformer Model

Thomas David Kyle
Analytics for Healthcare Operations: Machine Learning to Improve Emergency Department Patient Flow

Brenton Alexander Pieper
Security Assessment of Autonomous Networked Systems: A Multi-Agent Reinforcement Learning Approach

Arnaud Robin
(February, 2024)
Robust Inventory Induction under Demand Uncertainty

Matthew Cole Robins
(See also M.B.A., Course XV)
Enhancing Middle-Mile Inventory Management Policies Through Simulation and Reinforcement Learning

SCHOOL OF SCIENCE

Master of Science in Chemistry
Course V
Department of Chemistry

So Yee Cheung
(February, 2024)
Database and Application Programming Interface Development for Rotational Spectroscopy

Alexander Thienquang Duong
Investigating Cofactor Transfer for a B12-Dependent Enzyme

Khrystofor Khokhlov
(September, 2023)
Expanding the Structural Diversity of Discrete Polymers Accessible Through Iterative Exponential Growth

Nichakan Khuichad
Site-Selective Anion Exchange in a Palladophosphorane

Brittany Nicole Linn
Synthesis of Isotopically Labeled Fe and S-alkylated Iron-Sulfur Clusters

Master of Science in Biology
Course VII
Department of Biology

Claire Chen Luo
Nucleolus Activity-Dependent Recruitment and Biomolecular Condenstation by pH Sensing

Master of Science in Physics
Course VIII
Department of Physics

Jixiang Yang
Photocurrent Spectroscopy Study of Graphene / Hexagonal Boron Nitride Moiré Superlattice in the Far-Infrared Regime

Master of Engineering in Computation and Cognition
Course VI-9
Department of Brain and Cognitive Sciences in conjunction with the Schwarzman College of Computing

Mona Magdy Abdelrahman
(February, 2024)
Detecting Human Memory Processes via Bio-Signals

Samuel T. Acquaviva
Human-Like Program Induction with Natural Language

Brian A. Bailey
It's About Time

Annalisa J. Broski
(February, 2024)
Comparing Developmental Trajectories of Loophole Behavior in Autistic and Neurotypical Children

Jesus Crespo
(September, 2023)
Any Order Recurrent Neural Network Grammars

Theodor Cucu
Developing a Psychometric Tool to Measure the Emotional Impact of Visual Content

Emelie A. Eldracher, PLY
Inclusive Mobile AI Rowing Coach from Pose Estimation

Marie Diane Fadel
Methods for Extracting and Analyzing Political Content on TikTok

Ariel S. Fuchs
An Exploration of Developmental Change in Ego-Motion Experience in Infancy

Stephanie Pui-kay Howe
A Multi-Omic Analysis of Neurodegeneration in Alzheimer's Disease and Related Dementias

Emily Huang
(February, 2024)
Investigating Neuronal Cell Classes and Their Role in Cognition

Andrew W. Jenkins
(See also S.B., Course VI-9)
Learning Sim-to-Real Robot Parkour from RGB Images

Faduma B. Khalif
(February, 2024)
Creating a Conformal Framework for Disease Identification in the Context of Sleep Disorders

Jiachen Elizabeth Lee
Characterizing the Hippocampal Cortex During Language Processing

Elian Malkin
Minimally Invasive Magneto-Mechanical and Magneto-Genetic Neuromodulation

Sofia M. Marquez Gomez
(February, 2024)
Evaluating Data Augmentation with Attention Masks for Context Aware Transformations

Kinan Remy Martin
Phonetic Reduction and Contextual Predictability

Ilan Mitnikov
Geometric Deep Learning for Biomolecules

Keith Thomas Murray
(February, 2024)
To Attract or to Oscillate: Validating Dynamics with Behavior

Thomas Tien Ngo
(February, 2024)
Application of Multi-Objective Genetic Optimization in PCB Component Placement

Nikasha G. Patel
(February, 2024)
Baby Gym: Bridging the Gap between Reinforcement Learning and Human Infant Locomotor Development

Anita Podrug
Targeted Memory Reactivation

Yuting Qin
(See also S.B.,Course VI-9)
Understanding and Improving Approximate Nearest Neighbor (ANN) Search for Billion-scale Vector Databases

Varsha Sandadi
Evaluating Fairness of Artificial Intelligence Models for Radiology Image Classification

Kaitlin W. Zareno
Sharpness-Aware Minimization (SAM) Improves Classification Accuracy of Bacterial Raman Spectral Data Enabling Portable Diagnostics

Master of Science in Earth and Planetary Sciences

Course XII
Department of Earth, Atmospheric, and Planetary Sciences

Vittorio Colicci IV
The Influence of Root Geometry on Soil Cohesion and Anchoring Ability through Geologic Time

Neosha G. Narayanan
(September, 2023)
Modeling Subglacial Hydrology in the Himalayas

Lucy A. Sandoe
(February, 2024)
Deciphering Hydrological Responses: Elastic and Poroelastic Behavior through GPS Temporal Analysis

Vanessa Sun
Investigating Tropospheric Hydrogen Peroxide Trends from 1950-2014

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Master of Science in Civil and Environmental Engineering

Autumn Rose Deitrick
Course I
(September, 2023)
Sediment Erosion and Deposition Within Mangrove Forests

Master of Science in Mechanical Engineering

Cameron Jordan Davis
Course II
(September, 2023)
Acoustic Minimization of Ocean Twilight Zone Vehicle, MESOBOT

Matthew Alfredo Flores
Course II
(September, 2023)
Remote Sensing of Ice Dynamics in the Beaufort Sea

Chase Redd Pixa
Course II
(September, 2023)
Tracking Sargassum in the Caribbean: The Design, Deployment, and Validation of a Low-Cost Surface Drifter

Master of Science in Electrical Engineering and Computer Science

Mark Harry Goldwater
Course VI
(February, 2024)
Automatic Baleen Whale Detection and 2D Localization Using a Network of Unsynchronized Passive Acoustic Sensors

Master of Science in Chemical Oceanography

Erica Lauren Herrera
Course XII
(February, 2024)
Inferences on the Influences of Age & Porosity on Oxidative Weathering of Massive Sulfides at the Endeavour Segment of the Juan de Fuca Ridge

Isabel Vicenta Schaal
Course XII
(February, 2024)
Trace Metal Dynamics in Arctic Lagoon

Master of Science in Physical Oceanography

Helena R. Cheslack
Course XII
(September, 2023)
Diel Vertical Migration and Frontal Variability of Acoustic Backscatter in the Balearic Sea

Lucas Anthony Herron
Course XII
(September, 2023)
Applying Statistical Analysis and Machine Learning to Improve the Ice Sensing Algorithm

Oaklin Rhodes Keefe
Course XII
(February, 2024)
Energetics and Similarity Theory in the Wave-Affected Atmospheric Boundary Layer

Michael Tyler Zimmerman
Course XII
(September, 2023)
Observations of the Upper Ocean from Autonomous Platforms during the Passage of Extratropical Cyclone Epsilon (2020)

SCHOOL OF ARCHITECTURE AND PLANNING, DOCTORAL

Doctor of Philosophy

School of Architecture and Planning

Chelsea Marie Barabas
(September, 2023)
Thesis in the field of Media Arts and Sciences: Uninventing Carceral Technology: Four Experiments in Imagining the World More Rigorously

Zachary Michael Berzolla
Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: Modeling Technology Pathways and Retrofit Adoption to Achieve City-Wide Building Emissions Reduction Goals

Huili Chen
(September, 2023)
Thesis in the field of Media Arts and Sciences: Robots as Social Catalysts: A Multidisciplinary Framework for Designing Embodied Social Agents that Foster Long-Term Human Collaboration and Connection

Kyung Yun Choi
Thesis in the field of Media Arts and Sciences: Tangible Telepresence: Distributed and Synchronous Tangible Interfaces for Enhancing Interpersonal Connectedness Over Time and Space

Aleksandra Olegovna Durova
(September, 2023)
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Navigating Climate and Urban Change: Development Patterns, Conflicts, and Equity in a Sub-Arctic and Post-Socialist City

Chantal El Hayek
(September, 2023)
Thesis in the field of Architecture: History and Theory of Architecture submitted to the Department of Architecture: The Société Française des Urbanistes and the Invention of Urbanism

Keeley Donovan Erhardt
Thesis in the field of Media Arts and Sciences: Hidden Influence in Dynamic Networks

Demi Lin Fang
(See also S.M., Comp. Sci. & Eng)
Thesis in the field of Architecture: Building Technology submitted to the Department of Architecture: System-Level Design of Low-Carbon Structures

Don D. Haddad
(September, 2023)
Thesis in the field of Media Arts and Sciences: Responsive Space Environments: New Paradigms in Blending Virtual and Physical Exploration through Human-Robot Operations

Carmelo Ignaccolo
Thesis in the field of Urban Planning, Design, and Technology submitted to the Department of Urban Studies and Planning: Behind the Waterfront: Enduring Inequities and Illusive Renewals in the Making of Mediterranean Port Cities

Aarthi Janakiraman
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Repurposing Colonialism: Postcoloniality and the Politics of World Heritage

Kevin Lujan Lee
(September, 2023)
Thesis in the field of Urban Planning and Politics submitted to the Department of Urban Studies and Planning: Three Essays on Indigenous Politics: Methodology, Culture, Panethnicity

Isabella Loaiza Saa
(September, 2023)
Thesis in the field of Media Arts and Sciences: Empowering Career Crafting in the Future of Work: With Data-Driven Tools

Ayan Hassan Meer
(September, 2023)
Thesis in the field of Political Economy submitted to the Department of Urban Studies and Planning: Migrant Capitalism: Emigration, Remittances, and Urbanization in Punjab

Benjamin Joshua Preis
(September, 2023)
Thesis in the field of Urban Science and Policy submitted to the Department of Urban Studies and Planning: Three Essays on Rental Housing Markets in the United States

David Bradford Ramsay
(September, 2023)
Thesis in the field of Media Arts and Sciences: Designing for Deep Engagement

Pedro N. Reynolds-Cuéllar
Thesis in the field of Media Arts and Sciences: Contesting Design: Ancestral Technology as Portal to Post-Design(s)

Sebastian Sandoval Olascoaga
(September, 2023)
Thesis in the field of Urban Economics and Policy submitted to the Department of Urban Studies and Planning: Housing Dynamics in the Face of Shocks

Tony Shu
Thesis in the field of Media Arts and Sciences: A Bone-Anchored Mechanoneural Knee Prosthesis to Enhance Control and Embodiment

Sol Andrew Stokols
Thesis in the field of Political Economy of Urban Development submitted to the Department of Urban Studies and Planning: Building Digital Cities and Digital Nations: Singapore, Thailand, China

Praneeth Vepakomma
(February, 2024)
Thesis in the field of Media Arts and Sciences: Connecting Silos with Distributed and Private Computation

Nikolaos Vlavianos
(September, 2023)
Thesis in the field of Architecture: Design and Computation submitted to the Department of Architecture: Measuring the Psychological and Physiological Responses of Humans Experiencing Sacred Architectural Space in XR: A Case Study at the Monastery of Simonos Petra

Anna Jean Waldman-Brown
(September, 2023)
Thesis in the field of Industrial Geography and Political Economy submitted to the Department of Urban Studies and Planning: Robots and Humans in the Loop: Revitalizing Industrial Ecosystems

Binzhe Wang
Thesis in the field of Urban and Regional Economics submitted to the Department of Urban Studies and Planning: The Value of Urban Amenities: Analyzing the Changing Dynamics of Consumer Goods, Mobility, and Green Spaces in Cities

Zeguan Wang
Thesis in the field of Media Arts and Sciences: Imaging the Voltage of Neurons Distributed Across Entire Brains of Larval Zebrafish

Randi C. Williams
(February, 2024)
Thesis in the field of Media Arts and Sciences: Impact.AI: Democratizing AI through K-12 Artificial Intelligence Education

Elizabeth Reed Yarina
(February, 2024)
Thesis in the field of Urban and Regional Planning submitted to the Department of Urban Studies and Planning: Modeling the Mekong: Adaptation and Representation in Vietnam's Mekong Delta

Seong Ho Yeon
Thesis in the field of Media Arts and Sciences: Enhancing Muscle Sensing Modalities for Advanced Bionics

SCHWARZMAN COLLEGE OF COMPUTING, DOCTORAL

Doctor of Philosophy

Schwarzman College of Computing

Cate Elizabeth Heine
(February, 2024)
Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Leveraging Geospatial Data to Understand Social Mixing in Cities

Hussein Mozannar
Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Making Better Decisions with Human-AI Teams

Manon Revel
(September, 2023)
Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Diversity and Expertise in Representative Governance

Amir Tohidi Kalorazi
(September, 2023)
Thesis in the field of Social and Engineering Systems and Statistics submitted to the Institute for Data, Systems, and Society: Exploring Behavioral Patterns: A Multidisciplinary Investigation of Habit Formation and Political Persuasion with Statistical Analysis

Erin Elizabeth Walk
Thesis in the field of Social and Engineering Systems submitted to the Institute for Data, Systems, and Society: Leveraging Cross-Platform Social Media Data to Study Conflict and Polarization

SCHOOL OF ENGINEERING, DOCTORAL

Doctor of Science

School of Engineering

Eunsoo Cho
Thesis in the field of Materials Science and Engineering: Cation Site Occupancy and Defect Engineering in Perovskite Heterostructures

Richard Tochi Ibekwe
Thesis in the field of Nuclear Science and Engineering: Characterizing and Using Defects in High-Temperature Superconductor Cables and Magnets

Shyam Sivasathya Narayanan
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Cluster Analysis in High Dimensions: Robustness, Privacy, and Beyond

Doctor of Philosophy

School of Engineering

Jacob Lazer Adams
Thesis in the field of Nuclear Science and Engineering: The Acoustic Expander

Patrick John Adrian
(February, 2024)
Thesis in the field of Nuclear Science and Engineering: Studying Particle and Energy Transport using Nuclear and X-ray Diagnostics for Discovery Science and Inertial Confinement Fusion

Shyan Shaer Akmal
Thesis in the field of Electrical Engineering and Computer Science: Parameterized Relaxations for Circuits and Graphs

Miguel Angel Alcantar
(September, 2023)
Thesis in the field of Biological Engineering: Synthetic Biology Platforms for Engineering Gene Regulation Networks

Mohamed Ibrahim AlHajri
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Constrained Information Exchange Message Passing Algorithm in Probabilistic Graphical Models

Matthew Frederick Allan
(September, 2023)
Thesis in the field of Computational and Systems Biology: Investigating and Reprogramming RNA Folding with Molecular Probes

Aljumana Almahmoud
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Enhancing Online Collaborative Learning: Designs for Effective In-Situ Discussion and Engagement in Large-Scale Learning Environments

Abdullah Omar M Alomar
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Simulating Dynamical Systems from Data

Han R. Altae-Tran
(September, 2023)
Thesis in the field of Biological Engineering: Data Driven Discovery of Modular Biological Systems

Aya Galal Mahdy ElSayed Amer
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Analog Mixed Signal Circuits Design with Emerging Technologies for AI and Edge Computing: From New Devices to New System Architectures

Sarah An-ning Antilla
(September, 2023)
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Improving Cardiac Delivery of Antisense Oligonucleotides with Peptidomimetic Targeting Agents

Pasquale Antonante
(February, 2024)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Reliable Robotic Perception: From Outlier-Robust Estimation to Task-Aware Runtime Monitoring

Jon Arizti Sanz
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: From Sample to Answer: Innovations in Sample Processing and CRISPR-Based Diagnostics for Enhanced Clinical Translation and Field Deployment

Olivia Jane Arnold
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Therapeutic Applications of DNA Origami-Based Programmable Nanoparticles

Venkat Arun
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Verifying the Performance of Network Control Algorithms

Eric Hamilton Atkinson
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: A Language and Logic for Programming and Reasoning with Partial Observability

Sarah Halina Mindel Av-Ron
(September, 2023)
Thesis in the field of Materials Science and Engineering: Design, Development, and Study of New High-Throughput Biodegradation Test for Polymers

Tunahan Aytas
(February, 2024)
Thesis in the field of Materials Science and Engineering: Kinetics of the Cementitious Systems with the Incorporation of Unreactive Industrial Byproducts and Waste Materials

Arjun Varman Balasingam
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Application-Aware Scheduling Architectures for Mobile Systems

Sai Praveen Bangaru
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Algorithms & Systems for Differentiable Graphics Programming

K'yal Rasean Bannister
Thesis in the field of Chemical Engineering: Novel Pathway Design for Biopolymer Building Block Production

Rachel Frances Bellisle
Thesis in the field of Health Sciences and Technology: Medical Engineering and Bioastronautics submitted to the Harvard-MIT Program in Health Sciences and Technology: A Wearable Countermeasure for Musculoskeletal Deconditioning in Human Spaceflight

Adam Garrett Berger
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Systematic Engineering of Controlled, Localized Oligonucleotide Delivery Systems for Wound Angiogenesis

Liane Sarah Béland Bernstein
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Large-Scale Optical Hardware for Neural Network Inference Acceleration

Sachin Haresh Bhagchandani
(September, 2023)
Thesis in the field of Chemical Engineering: Engineering Kinetics of Immunotherapies and Vaccines

Karan Bhuwalka
Thesis in the field of Mechanical Engineering: Modeling Sustainable Mineral Supply Pathways to Meet Clean Energy Demand

Haixin Bi
(February, 2024)
Thesis in the field of Computational and Systems Biology: Investigating the Longitudinal Dynamics of the Human Gut Microbiome and Immune System

Rachel Sophia Bielajew
(February, 2024)
Thesis in the field of Nuclear Science and Engineering: Understanding the Nature of Fluctuations in the Edge of I-Mode and L-Mode Plasmas at ASDEX Upgrade

Enric Boix
Thesis in the field of Electrical Engineering and Computer Science: On Several Mathematical Characterizations of Deep Learning

Serena Lynn Booth
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Building Blocks for Human-AI Alignment: Specify, Inspect, Model, and Revise

Meshkat Botshekan
(February, 2024)
Thesis in the field of Civil and Environmental Engineering: Unveiling Roadway Network Safety: Application of Statistical Physics to Crowdsourced Velocity Data

Laura Eileen Brandt
Thesis in the field of Electrical Engineering and Computer Science: Human-Inspired Methods for Extending Advances in Computer Vision to Data- and Compute-Constrained Environments

Simone Bruno
(February, 2024)
Thesis in the field of Mechanical Engineering: Unveiling Epigenetic Cell Memory Mechanisms: A Comprehensive Investigation

Nicole Alejandra Bustos
(February, 2024)
Thesis in the field of Mechanical Engineering: An Investigation of the Role of Mucin Gels in Disease Progression and Transmission

Han Cai
Thesis in the field of Electrical Engineering and Computer Science: Model Acceleration for Efficient Deep Learning Computing

Richard Benjamin Canty
(February, 2024)
(See also S.M., Course X-A)
Thesis in the field of Chemical Engineering: Autonomous Experimentation for Molecular Discovery Applications

Nicholas S. Caros
(September, 2023)
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Preparing Urban Mbility for the Future of Work: Impacts and Adaptation

Lauren A. Chai
Thesis in the field of Mechanical Engineering: High Speed Acoustophoresis for Multiphase Micron-Sized Particle Assembly

Lucy R. Chai
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Controlling Image Synthesis with Emergent and Designed Priors

Manwei Chan
(February, 2024)
Thesis in the field of Aeronautics and Astronautics: Toward Real-Time Earth Observation with Satellite Constellation Crosslinks and Propulsion

Florian Chavagnat
Thesis in the field of Nuclear Science and Engineering: High-Resolution Experimental Measurements and Mechanistic Modelling of Saturated Cryogenic Pool Boiling Heat Transfer

Kevin Chia-Lun Chen
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Protocols and Devices for Scalable Spin-Photon Quantum Networks

Rujian Chen
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Approximate Bayesian Modeling with Embedded Gaussian Processes

Sijie Chen
(September, 2023)
Thesis in the field of Mechanical Engineering and Statistics submitted to the Department of Mechanical Engineering: Novel High-Throughput Technologies for Applications in Microbiology

Tao Chen
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Advancing Dexterous Manipulation via Machine Learning

Xi Chen
(February, 2024)
Thesis in the field of Materials Science and Engineering: Characterize Thermal Vibrations at Atomic-Scale with Electron Microscopy

Christopher Ho-Yen Chin
Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Centralized and Decentralized Approaches to Advanced Air Mobility Traffic Management

Inho Cho
(September, 2023)
Thesis in the field of Computer Science and Engineering submitted to the Department of Electrical Engineering and Computer Science: Mitigating Compute Congestion for Low Latency Datacenter RPCs

Yukio Cho
(September, 2023)
Thesis in the field of Materials Science and Engineering: Self-Assembled Molecular Nanomaterials and Their Applications

Seo Woo Choi
(February, 2024)
Thesis in the field of Chemical Engineering: Integrative and Scalable Pipeline for Multi-Omic Characterization of Biological Tissues

Ching-Yao Chuang
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Robust Learning from Uncurated Data

Richard Bertram Church
(September, 2023)
Thesis in the field of Polymers and Soft Matter submitted to the Department of Materials Science and Engineering: Towards Thick Battery Electrodes and Interdigitated Cell Architectures via Micro-Structured Carbon Nanotube Forests

Lauren E. Clarke
Thesis in the field of Chemical Engineering: Defining Key Engineering Parameters to Advance Electrochemical CO_2 Separation Technologies

Christopher Bryce Courtin
Thesis in the field of Aeronautics and Astronautics: Performance, Stability and Control of Electric Short Takeoff and Landing Aircraft

Jose Enrique Cruz Serralles
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Integral Equation-Based Inverse Scattering and Coil Optimization in Magnetic Resonance Imaging

Yingnan Cui
(September, 2023)
Thesis in the field of Mechanical Engineering: Fast Parameter Learning In Adaptive Systems

Benjamin Reid Dacus
Thesis in the field of Nuclear Science and Engineering: Inferring Microstructural Change through Non-Contact Ultrasonic Property Measurements

James Kent Damewood
Thesis in the field of Computational Materials Science and Engineering submitted to the Department of Materials Science and Engineering: Machine Learning Methods for Order and Disorder in Crystalline Materials

Rumen Rumenov Dangovski
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Representation Learning Through the Lens of Science: Symmetry, Language and Symbolic Inductive Biases

Ronald A. Davis III
Thesis in the field of Electrical Engineering and Computer Science: Combining RF Machine Learning and RF Photonics to Enable New Analog Communications Architectures

Jennifer Joanne Dawkins
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Computational Prediction of Health Status from the Human Gut Microbiome and Metabolome

Charles Burke Dawson
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Breaking Things So You Don't Have To: Risk Assessment and Failure Prediction for Cyber-Physical AI

Marc de Cea Falcó
Thesis in the field of Electrical Engineering and Computer Science: Integrated Photonics for Imaging: Novel Sources, Architectures and Applications

José del Águila Ferrandis
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Exploring Complex Problems in Fluid Dynamics: from CFD to Experiments Leveraging ML

Samuel DeLaughter
(September, 2023)
(See also E.C.S., Course VI)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Redistributing the Costs of Volumetric Denial-of-Service Mitigation

Jie Deng
Thesis in the field of Civil and Environmental Engineering: Understanding Community Changes in Ecological Systems: A Probabilistic and Geometric Perspective

Carlos Daniel Díaz Marín
Thesis in the field of Mechanical Engineering: Physics and Engineering of Moisture-Capturing Hydrogels for Freshwater and Heat Harvesting

Brian Tshao Do
(September, 2023)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Metabolic and Genetic Factors Guiding Hematopoietic Cell Fate

Mustafa Doğa Doğan
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Ubiquitous Metadata: Design and Fabrication of Embedded Markers for Real-World Object Identification and Ineraction

Manan Doshi
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: High-Dimensional Optimal Path Planning and Multi-Timescale Lagrangian Data Assimilation in Stochastic Dynamical Ocean Environments

Lena Marie Downes
(February, 2024)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: City-Scale Cross-View Geolocalization with Generalization to Unseen Environments

Arkopal Dutt
(February, 2024)
Thesis in the field of Mechanical Engineering: Accelerating Learning of Quantum Systems Using Prior Information

Souha El Mousadik
(February, 2024)
Thesis in the field of Civil and Environmental Engineering: An in situ Investigation of Sediment Hydrodynamics for Advancing Seabed Mining Plume Monitoring and Modeling

Joshua James Elacqua
(February, 2024)
Thesis in the field of Biological Engineering: Developing Methods for Enhanced Measurement of DNA Single-Strand Breaks and Somatic Variants

Alireza Fallah
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Algorithmic Interactions with Strategic Users: Incentives, Interplay, and Impact

Lijie Fan
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Visual Representation Learning from Synthetic Data

Yiling Fan
(September, 2023)
Thesis in the field of Mechanical Engineering: Building Patient-Specific Models of the Heart to Study Cardiac Growth and Remodeling

Amanda Marie Farnsworth
Thesis in the field of Chemical Engineering: Decarbonizing the US Power Sector

Adam Joshua Fisch
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Conformal Methods for Efficient and Reliable Deep Learning

Cameron Timothy Flower
Thesis in the field of Computational and Systems Biology: Tumor Cell-Intrinsic Signals Promoting Tolerance and Adaptation to Oncogenic Kinase Inhibition

Corbin R. Foucart
(September, 2023)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: High-Order Discontinuous Galerkin Methods and Deep Reinforcement Learning with Application to Multiscale Ocean Modeling

Christopher Kurt Fourie
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Real-time Anticipation and Entrainment in Human-Robot Interaction

Christopher John Frangieh
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Methods and Models of Screening Genomic Variants

Jiahui Fu
(February, 2024)
Thesis in the field of Mechanical Engineering: Long-Term Object-Based SLAM in Low-Dynamic Environments

Xiang Fu
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning to Model Atoms Across Scales

Ximo Gallud Cidoncha
(September, 2023)
Thesis in the field of Aeronautics and Astronautics: Studies on the Physical Structure, Properties and Operation of Ionic Liquid Electrosprays in the Pure-Ion Mode

Amanda Gao
Thesis in the field of Environmental Engineering Science submitted to the Department of Civil and Environmental Engineering: Development and Characterization of a Novel, Low-Cost Method for Measurement of Volatile Organic Compounds

Weiran Gao
Thesis in the field of Chemical Engineering: Modeling and Analysis of a Lithium-Ion Convection Battery

Juan José Garau Luis
(September, 2023)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Robustness of Reinforcement Learning Systems in Real-World Environments

Devashish Pratap Gokhale
Thesis in the field of Chemical Engineering: Sustainable Hydrogels for Water Treatment

Samuel Lucas Goldman
(February, 2024)
Thesis in the field of Computational and Systems Biology: Machine Learning Methods for Discovering Metabolite Structures from Mass Spectra

Jose Javier Gonzalez Ortiz
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning Reconfigurable Vision Models

Kevin Paul Greenman
Thesis in the field of Chemical Engineering and Computation: Optical Property Prediction and Molecular Discovery through Multi-Fidelity Deep Learning and Computational Chemistry

Peter William Grenfell
(February, 2024)
Thesis in the field of Aeronautics and Astronautics: Systems Performance Analysis for Autonomous Spacecraft Navigation within Satellite Constellations Using Intersatellite Optical Communications Links

Carla Grobler
(February, 2024)
Thesis in the field of Aerospace, Energy, and the Environment submitted to the Department of Aeronautics and Astronautics: Past, Present, and Future Climate Impacts of Aviation

Xiaotong Guo
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Towards a Robust Integrated Urban Mobility System: Public Transit and Ride-Sharing Systems

Zhen Guo
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Data-Efficient Machine Learning for Computational Imaging

Stephen Carrol Guth
(September, 2023)
Thesis in the field of Mechanical Engineering and Statistics submitted to the Department of Mechanical Engineering: Analytical and Computational Methods for Non-Gaussian Reliability Analysis of Nonlinear Systems Operating in Stochastic Environments

Wael Hajj Ali
(September, 2023)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Stochastic Dynamically Orthogonal Modeling and Bayesian Learning for Underwater Acoustic Propagation

Benjamin Alexander Hamilton
Thesis in the field of Mechanical Engineering: A New Method for Cryogenic Fluid Thermal Conductivity Measurements and Thermophysical and Transport Properties of Hydrogen-Helium Mixtures

Yena Han
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Biologically Plausible Deep Learning

Emily Barret Hanhauser
(September, 2023)
Thesis in the field of Mechanical Engineering: Miniature Bioanalytical Assays Utilizing Mechanical Actuation of Microspheres

Alvin Donel Harvey
Thesis in the field of Aeronautics and Astronautics: The Cosmos as a Uniting Pillar of Relationships: A Diné & Hózhó Perspective

Susana Wilson Hawken
(September, 2023)
Thesis in the field of Computational and Systems Biology: Linking Biomolecular Condensates to Disease and Therapeutic Development

Mingjian He
(February, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: State-Space Modeling of Neural Oscillations: Toward Assessing Alzheimer's Disease Neuropathology with Sleep EEG

Connor Andrew Henley
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Shadows, Mirrors, and Snow: Decoding Multibounce Light Transport in Time-of-Flight Photography

Evan Hernandez
Thesis in the field of Electrical Engineering and Computer Science: Automating the Interpretation of Neural Networks

Hailee Elida Hettrick
Thesis in the field of Aeronautics and Astronautics: Computationally Efficient Optimization of Formation Flying Trajectories, with Solar Radiation Pressure, near Lagrange Points

Jane Elizabeth Heyes
(September, 2023)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Experimental Demonstration of Quantum Low Probability of Intercept for Ultra-Secure Communication

Ahmet Esat Hizir
(February, 2024)
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Airline Recovery Using Machine Learning and Optimization

Megan Hoffman
Thesis in the field of Biological Engineering: Design Strategies for Macromolecular Targeted Protein Degraders

Flemming Holtorf
Thesis in the field of Chemical Engineering: Bounds and Low-Rank Approximation for Controlled Markov Processes

Sungkweon Hong
(September, 2023)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Risk-Bounded Programming Using Constrained, Hierarchical, Stochastic Shortest Path Problems

Jiliang Hu
(February, 2024)
Thesis in the field of Mechanical Engineering: Emergent Behaviors in Complex Microbial Ecosystems

Qiangqiang Huang
(September, 2023)
Thesis in the field of Mechanical Engineering: Scalable Full Posterior Inference for Uncertainty-Aware Robot Perception

Siying Huang
Thesis in the field of Materials Science and Engineering: Structure and Dynamics of Magnetic Domain Walls in Multi-Sublattice Magnetic Oxides

Zeshan Mohammed Hussain
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Towards Precision Oncology: A Predictive and Causal Lens

Shibal Ibrahim
Thesis in the field of Electrical Engineering and Computer Science: Nonparametric High-Dimensional Models: Sparsity, Efficiency, Interpretability

Stewart Anthony Isaacs
Thesis in the field of Aerospace, Energy, and the Environment submitted to the Department of Aeronautics and Astronautics: Quantifying and Mitigating Dust Impacts on Solar Panels in West Africa

Brennan Leo Jackson
(September, 2023)
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: The Impact of Gamma Stimulation on Neurological Phenotypes of Alzheimer's Dementia and Down Syndrome

Farnaz Jahanbakhsh
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Empowering Users on Social Media for Better Content Credibility

Saachi Jain
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: A Data-Centric Perspective on Model Reliability

Morgan Elizabeth Janes
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Engineering Translational Vaccine Delivery Systems with the Polyphenol Tannic Acid

Daniel Jang
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Modeling the Future Space Debris Population and Orbital Capacity

Zexi Ji
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Flexible Energy-Aware Image and Transformer Processors for Edge Computing

Allen Yujie Jiang
(February, 2024)
Thesis in the field of Chemical Engineering: Development and Evaluation of Localized mRNA Delivery Systems for Vaccines and Inhaled Therapies

Xiaojia Jin
Thesis in the field of Chemical Engineering: Carbon Nanotube Based Biosensors Using Corona Phase Molecular Recognition (CoPhMoRe): Development and Applications

Mary Agnes Joens
Thesis in the field of Chemical Engineering: Modeling the Motion of Solid Objects Immersed in Viscoelastic Fluids

Joshua David John Rathinaraj
Thesis in the field of Mechanical Engineering: Novel Rheometric Techniques and Constitutive Models for Linear and Nonlinear Rheology: Applications to Polymeric Solutions and Colloidal Gels

Robert Paul Jones
(See also S.M., Course X-A and M.B.A., Course XV)
Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Decarbonizing Long-Haul Trucking

Taigyu Joo
Thesis in the field of Chemical Engineering: Post-Synthetic Chemical and Morphological Modifications of Polymer Membranes for Gas Separations

William John Kammerer III
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Development of Optical Communication Terminals for Increasing Connectivity on Small Satellites

Ha Eun Kang
(February, 2024)
Thesis in the field of Mechanical Engineering: Empowering Data Sharing in Smart Manufacturing Through Homomorphic Encryption

Elijah Karvelis
Thesis in the field of Biological Engineering: Computational Approaches for Understanding and Redesigning Enzyme Catalysis

Mehrdad Khani Shirkoohi
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Continuous Learning for Lightweight Machine Learning Inference on Edge Devices

Alexander Antony Khechfe
(September, 2023)
Thesis in the field of Chemical Engineering: Promotion of Heterogeneous Acid and Base Catalysts for Biomass Upgrading

Bharat Khurana
Thesis in the field of Materials Science and Engineering: Pulsed Laser Deposited Iron Garnet Thin Films for Spintronics

Kruthika Kikkeri
Thesis in the field of Electrical Engineering and Computer Science: Low-Cost Electronic Microfluidics for Multiplexed Point-of-Care Biomarker Detection

Albert Kim
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Optimizing Queries with Disjunctions

Do Hun Kim
Thesis in the field of Bioengineering submitted to the Department of Biological Engineering: Quantitative Analysis of Phosphoproteomics for KRAS Signaling Network Characterization

Lohyun Kim
Thesis in the field of Mechanical Engineering: Design and Modeling of Nanostructured Palladium-Based Hydrogen- Selective Membranes

Sangwoon Kim
Thesis in the field of Mechanical Engineering: TEXterity: Tactile Extrinsic deXterity

Suyong Kim
Thesis in the field of Mechanical Engineering: Combustion Physics and Inverse Modeling of Energetic Materials

Taekyong Kim
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Switching Dynamics in Ferroelectric $Hf_{0.5}Zr_{0.5}O_2$ Devices: Experiments and Models

Ethan Avram Klein
(September, 2023)
Thesis in the field of Nuclear Science and Engineering: Neutron Resonance Transmission Analysis of Nuclear Material Using a Portable D-T Neutron Generator

Grant Alexander Knappe
Thesis in the field of Chemical Engineering: Development of a Structural Nucleic Acid Delivery Vector Technology

Ching-Yun Ko
Thesis in the field of Electrical Engineering and Computer Science: Charting the Landscape: Adversarial Robustness, Representation Learning, and the Quest for Human-Aligned AI

Florian Koehler
Thesis in the field of Electrical Engineering and Computer Science: Magnetic Tools for Neural Interfacing

Ekaterina R. Kononov
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Synthesis Imaging with Vector Sensor Arrays

Andrew Normand Kopeikin
(February, 2024)
Thesis in the field of Aeronautics and Astronautics: System-Theoretic Safety Analysis for Teams of Collaborative Controllers

Alexander E. Kossak
Thesis in the field of Materials Science and Engineering: Reversible and Irreversible Effects of Magneto-Ionic Gating: Exchange, Anisotropy, and Magnetization

Akshay Kothakonda
Thesis in the field of Aeronautics and Astronautics: Engineering Mechanical Counter Pressure Spacesuits and Compression Garments: Active Pressurization and Design for Mobility

Irene Agnes Kuang
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Handheld MRI for Point-of-Care and Educational Applications

Ashwin Srinivasan Kumar
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Targeting B Lymphocytes to Improve Therapeutic Outcomes for Pediatric Medulloblastoma

Gil Kur
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: On The Performance Of The Maximum Likelihood Over Large Models

Ivan Kuraj
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Synthesis-Aided Development of Distributed Programs

William Henry Kuszmaul
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Randomized Data Structures: Modern Perspectives and Hidden Surprises

Soonhyoung Kwon
(February, 2024)
Thesis in the field of Chemical Engineering: Enhancing Zeolite Synthesis with Tailored Structure-Directing Agents (SDAs) and High-Throughput Platform

Peter Lalor
Thesis in the field of Computational Nuclear Science and Engineering: Reconstructing the Atomic Number of Cargo X-ray Images Using Dual Energy Radiography

Christian Landeros
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Machine-Guided Biopsy Analysis in Oncology: Facilitating Diagnostic Access and Biomedical Discovery Through Deep Learning

Alina Dale LaPotin
(February, 2024)
Thesis in the field of Mechanical Engineering: Characterization of Thermophotovoltaics and Materials for High-Temperature Thermal Energy Storage

Hong Anh Anna Le
(September, 2023)
Thesis in the field of Biological Engineering: Functional Genomic and Transcriptomic Tools for Spatial and Dynamic Phenotypes

Benjamin David Leaker
(February, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Biological and Biomechanical Effects of Direct Perturbation of Tissue Structure in the Cirrhotic Liver

Guillaume Paul Olivier Leclerc
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Robust Computer Vision: Beyond Lp Adversaries

Byung Hun Lee
Thesis in the field of Materials Science and Engineering: Magnetization Dynamics in Multi-Sublattice Magnetic Materials

Cheng Feng Gary Lee
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Machine Learning for Data-Driven Signal Separation and Interference Mitigation in Radio-Frequency Communication Systems

Hyunhee Lee
(September, 2023)
Thesis in the field of Chemical Engineering: Multidimensional MOFs Mixed Matrix Membranes for Efficient Gas Separation

Kyungmi Lee
Thesis in the field of Electrical Engineering and Computer Science: Towards Secure Machine Learning Acceleration: Threats and Defenses Across Algorithms, Architecture, and Circuits

Serin Lee
Thesis in the field of Materials Science and Engineering: In Situ Electron Microscopy of Nanomaterials Dynamics in Heterogeneous Phase Environments

Stephen James Lee
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Electricity Demand and Energy for Growth: A Data Fusion Approach

Eric Lehman
Thesis in the field of Electrical Engineering and Computer Science: Practical Considerations For the Deployment of Clinical NLP Systems

Jonas Lehmann
Thesis in the field of Civil and Environmental Engineering: Quantitative Modeling for Guiding the Transition to Low-Carbon Logistics

Kyle Ravi Lennon
(September, 2023)
Thesis in the field of Chemical Engineering: Mathematics, Methods, and Models for Data-Driven Rheology

Bianca Arielle Lepe
Thesis in the field of Bioengineering submitted to the Department of Biological Engineering: Development of *In Silico* Subunit Vaccines and a Surface Modification Platform for *Mycobacterium Tuberculosis*

Kathleen Marie Lewis
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Application-Driven Generative and Multimodal Methods

Buxuan Li
(February, 2024)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Engineering Thermal Conductivity and Elastocaloric Effects in Polymer Fibers of Variable Crystallinity

Clement Li
Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Hierarchical Behavior Models for Airspace Characterization and Trajectory Prediction

Hao Li
(September, 2023)
Thesis in the field of Mechanical Engineering: Problem Solving in Engineering with Multiple Solution Methods

Haochuan Li
Thesis in the field of Electrical Engineering and Computer Science: The Role of Smoothness and Adaptivity in Nonlinear Optimization for Machine Learning

Lingxiao Li
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Scalable Methodologies for Optimizing Over Probability Distributions

Linsen Li
Thesis in the field of Electrical Engineering and Computer Science: Heterogeneous Integration of Spin-Photon Interfaces with a Scalable CMOS Platform

Shuang Li
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Enabling Compositional Generalization of AI Systems

Yunpo Li
(February, 2024)
Thesis in the field of Civil and Environmental Engineering: Evaluation, Prediction, and Monitoring of Methane Emission from Oil and Gas Development

Qiaohao Liang
Thesis in the field of Computational Materials Science and Engineering submitted to the Department of Materials Science and Engineering: Physics-Based and Data-Driven Modeling of Multi-Active Material Electrode Batteries

Qianli Liao
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Understanding Neural Networks from Theoretical and Biological Perspectives

Wei Liao
Thesis in the field of Electrical Engineering and Computer Science: Machine Learning for Sepsis Prognosis: Prediction Models and Dissecting Electronic Health Records

Miles Thelonious Keylor Lifson
Thesis in the field of Aeronautics and Astronautics: Low Earth Orbit Spacecraft Slotting: Towards an Implementable Proposal

Paul Lilin
Thesis in the field of Mechanical Engineering: Fracture Morphologies in Particulate Suspensions

Ji Lin
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Efficient Deep Learning Computing: From TinyML to LargeLM

Yen-Chen Lin
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Neural Fields for Robotics

Geoffrey Kazuyuki Litt
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Building Personal Software with Reactive Databases

Fan Liu
Thesis in the field of Mechanical Engineering: Intercellular Flow-Mediated Force Relaxation Measurement on the Three-Dimensional Multicellular Tissue

Sandra Qi-Jun Liu
(February, 2024)
Thesis in the field of Mechanical Engineering: Soft, Compliant Tactile Robotic Manipulators

Yixi Liu
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Toward Ultra-Resolution Biomolecular Mapping in Cells with Expansion Microscopy

Yunpeng Liu
Thesis in the field of Mechanical Engineering: Remote Epitaxy by In-Situ Grown BN and InGaN Strain Relaxation

Zhijian Liu
Thesis in the field of Electrical Engineering and Computer Science: Efficient Deep Learning with Sparsity: Algorithms, Systems, and Applications

Charlotte Chang Le Loh
Thesis in the field of Electrical Engineering and Computer Science: Scalable Representation Learning: On Data-Scarcity, Uncertainty and Symmetry

Lee Gabriel Lopez
Thesis in the field of Aeronautics and Astronautics: Large-Eddy Simulation of Hypersonic Shock-Wave Boundary-Layer Interaction with Wall Cooliing

Georgios Lordos
(February, 2024)
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Engineering Autocatalytic and Robust Architectures for Human Missions to Mars

Daniel James Lundberg
(February, 2024)
Thesis in the field of Chemical Engineering: Design and Engineering of Carbon Fixing Material Systems

David James Lundberg
(February, 2024)
Thesis in the field of Chemical Engineering: Control and Prediction of Polymer Network Structure and Connectivity for Sustainability, Stimuli-Response, and Catalytic Function

Parker Chase Lusk
(September, 2023)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Data Association Algorithms and Representations for Robust Geometric Perception

Wei-Chiu Ma
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Learning 3D Modeling and Simulation from and for the Real World

Fiona Katherine Macleod
(September, 2023)
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Investigating the Fidelity of Classic Cardiovascular Metrics in the Context of a Failing and Mechanically Supported Heart

Ipek Bensu Manav
(February, 2024)
Thesis in the field of Civil and Environmental Engineering: Assessing the Intersectional Risks Associated with the Full Life Cycle of the U.S. Housing Stock

Tobia Marcucci
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Graphs of Convex Sets with Applications to Optimal Control and Motion Planning

Gustavo Marques Hobold
(September, 2023)
Thesis in the field of Mechanical Engineering: Quantitative Solid Electrolyte Interphase-based Descriptors for Lithium Liquid Electrolyte Design

María Carmen Martín Alonso
(February, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Amplifying Signals in the Tumor Microenvironment for Drug Development and Diagnostics

Suzane Martins Cavalcanti
(February, 2024)
Thesis in the field of Chemical Engineering and Computation: Nonsmooth Distillation Models Robust to Convergence Errors: Numerical Methods and Topological Aspects

Gustavo Matana Aguiar
(February, 2024)
Thesis in the field of Nuclear Science and Engineering: Infrared Thermometry Analysis of Surface Effects in Subcooled and Saturated Boiling of Water

Joana Matos Fonseca da Trindade
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Systems and Techniques for Efficient Temporal Graph Analytics

Thomas Paul Matson
Thesis in the field of Materials Science and Engineering: Phase-and-Defect Diagrams for Polycrystalline Grain Boundary Segregation

Eli Mattingly
(February, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Design, Construction, and Validation of Magnetic Particle Imaging Systems for Rodent, Primate and Human Functional Neuroimaging

Kayla Marisa McCue
Thesis in the field of Computational and Systems Biology: Interpretable Computational Modeling of Pre-mRNA Splicing for Multiple Eukaryotic Species

Vincent Rudolf Meijer
Thesis in the field of Aerospace, Energy, and the Environment submitted to the Department of Aeronautics and Astronautics: Satellite-Based Analysis and Forecast Evaluation of Aviation Contrails

Aaron Max Melemed
Thesis in the field of Mechanical Engineering: Modulating the Electrochemistry of Calcium Metal Anodes

Vincent Nevan Miao
(September, 2023)
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Profiling Host Respiratory Responses to SARS-CoV-2 Infection

Christina Paula Migliore
Thesis in the field of Nuclear Science and Engineering: Development of the "Stix" Code, a Radio Frequency (RF) Wave Solver, to Investigate RF-Sheath Behavior in Realistic Tokamak Geometry

John Paul Mikhail
(February, 2024)
Thesis in the field of Chemical Engineering: Understanding the Mechanisms of Shock-Induced Deformation in Polymeric Systems

Benjamin Miller
(February, 2024)
Thesis in the field of Mechanical Engineering: Design, Fabrication, and Application of Bioinspired Soft Photonic Materials

Daniel Martin Miller
Thesis in the field of Aeronautics and Astronautics: Small-Body and Heliophysics Missions using Hybrid Low-Thrust Propulsion

Julia Milton
(September, 2023)
Thesis in the field of Aeronautics and Astronautics: Scenario-Based Uncertainty Quantification for Deep Space Optical Communications

Fabian Mohr
(See also M.B.A., Course XV)
Thesis in the field of Chemical Engineering Practice submitted to the Department of Chemical Engineering: Smart Data Analytics for Manufacturing Processes

Intae Moon
Thesis in the field of Electrical Engineering and Computer Science: Trustworthy and Reliable AI for Evidence-based Clinical Decision Support in Cancer Care

Rachel E. Morgan
(September, 2023)
Thesis in the field of Space Systems submitted to the Department of Aeronautics and Astronautics: Germanium on Silicon Integrated Photonics for the Mid-Wave Infrared

Klara Mundilova
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Gluing and Creasing Paper along Curves: Computational Methods for Analysis and Design of Compositions of Developable Surfaces

Varun Murali
(February, 2024)
Thesis in the field of Aeronautics and Astronautics: Perception-Aware Planning for Differentially Flat Robots

Michael Alexander Murphy
(February, 2024)
Thesis in the field of Computational and Systems Biology: Machine Learning Methods for High-Throughput Biological Data

Parimarjan Negi
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Machine Learning for Query Optimization in Presence of Workload Drift

Suchita P. Nety
(September, 2023)
Thesis in the field of Biological Engineering: The Transposon-Encoded Protein TnpB is an RNA-Guided Nuclease

Thanh Nguyen
Thesis in the field of Quantum Science and Engineering submitted to the Department of Nuclear Science and Engineering: Spectroscopy of Topological Materials and Their Technological Applications

Tin Danh Nguyen
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Toward Faster Methods in Bayesian Unsupervised Learning

Martin Eric William Nisser
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Computational Fabrication and Assembly for *In Situ* Manufacturing

Milica Notaros
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Integrated Visible-Light Platforms, Devices, and Systems for Augmented Reality and Beyond

Michael Karl Oberst
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Towards Rigorously Tested and Reliable Machine Learning for Health

Willis Cooper O'Leary
Thesis in the field of Materials Science and Engineering: Combining Experiments and First-Principles Calculations to Understand and Engineer Metal Exsolution in Perovskites

Chelsea Nneka Onyeador
Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: Multi-Fidelity Gaussian Process Regression for Aerodynamic Boundary Layer CFD Applications

Nils Pachler de la Osa
Thesis in the field of Aeronautics and Astronautics: Optimizing Resource Allocation in Large Communications Satellite Constellations

Cody Alison Paige
(September, 2023)
Thesis in the field of Aeronautics and Astronautics: Enabling a Permanent Human Presence beyond Low Earth Orbit: Wearable Radiation Protection and Enhanced Science Through Virtual Reality

David Robert Palmer
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Relaxing Topological Barriers in Geometry Processing

Subeen Pang
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Scalar Scattering Theory and Physics-inspired Optimization for Computational Imaging

Jonathan S. Paras
(September, 2023)
Thesis in the field of Materials Science and Engineering: An Irreversible Thermodynamic Formalism of the Electronic Contribution to the Entropy in Metals

Soyun Park
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Designing Inclusivity in Collaborative Technology

Mirae Leigh Parker
(February, 2024)
Thesis in the field of Computational and Systems Biology: New Tools for Measuring and Analyzing Bacterial Gene Expression Dynamics.

Aniket Sanjay Patankar
(September, 2023)
Thesis in the field of Mechanical Engineering: System and Reactor Design, and Materials Testing, for Efficient Thermochemical Solar Fuel Production in Temperature/Pressure Swing Redox Cycles

Sarath Pattathil
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Optimization and Generalization of Minimax Algorithms

Cadence Brea Payne
(February, 2024)
Thesis in the field of Aeronautics and Astronautics: Nanosatellite Hyperspectral Imaging Performance Modeling for Ocean Color Detection.

Kaidong Peng
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: The Quest for Ideal Quantum Amplifiers

Tianyi Peng
(September, 2023)
Thesis in the field of Aeronautics and Astronautics and Statistics submitted to the Department of Aeronautics and Astronautics: Learning from Commerce Data: From Theory to Practice

Nili Persits
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Chemical Sensing as a Utility using Swept-Source Raman Spectroscopy

Gustav Mikael Pettersson
Thesis in the field of Aeronautics and Astronautics: Deep-Space Exploration Enabled by CubeSats with Staged Electrospray Propulsion

Eric A. Ponce
(September, 2023)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Measurement and Modeling for Resource Monitoring

Allison Paige Porter
Thesis in the field of Health Sciences and Technology: Medical Engineering and Bioastronautics submitted to the Harvard-MIT Program in Health Sciences and Technology: Automation Framework for Exploration Medicine (AFEM): A Path for Integrating Automation into Autonomous Emergency Care

Rachel Elaine Price
(September, 2023)
Thesis in the field of Aeronautics and Astronautics: Data-Driven Detection of En-Route Convective Weather Avoidance and Development of a Weather Assessment Model

Krista Michelle Pullen
Thesis in the field of Biological Engineering: Data-Driven Translation of the Pathogen-Induced Immune Responses Across Species

Mohammad Mowafaq Qasim
Thesis in the field of Electrical Engineering and Computer Science: Design of High-Speed, High-Specific-Power Motor Drives for Megawatt Aircraft Applications

Rumya S. Raghavan
(February, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Engineering Minimally Immunogenic Cargos and Delivery Modalities for Gene Therapy

Aniruddh Raghu
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Data-Efficient Machine Learning with Applications to Cardiology

Michelle L. Ramseier
(February, 2024)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Co-optation of B Cell Developmental States in Malignancy and Autoimmunity

Basuhi Ravi
(February, 2024)
Thesis in the field of Materials Science and Engineering: Barriers to Recycling Plastics in the United States

Madhumitha Ravichandran
Thesis in the field of Nuclear Science and Engineering: Autonomous Experimentation to Accelerate Boiling Heat Transfer Research

Jessica Morgan Ray
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: A Universal Tensor Abstraction and Its Application to and Implementation within Block-Based Compression

Nathan Jude Rebello
(February, 2024)
Thesis in the field of Chemical Engineering: Predicting Properties of Polymer Networks Using Analytical Theory and Data-Driven Approaches

Kelsey Maia Reed
(February, 2024)
Thesis in the field of Chemical Engineering: Self-Assembly of Attractive and Polarizable Colloids

Marlyse Helena Reeves
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Magellan: A Risk-Bounded Plan Executive for Nonlinear, Stochastic Mobile Agents

Danyal Rehman
(February, 2024)
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Physics-Constrained Deep Learning and Differentiable Mechanistic Models for Multicomponent Transport Phenomena

Kate Reidy
Thesis in the field of Materials Science and Engineering: Atomic-Scale Design at the 2D/3D Interface using Electron Microscopy

Zhichu Ren
Thesis in the field of Materials Science and Engineering: Accelerating Novel Energy Catalyst Discovery Using Automation, Active Learning, and AI

Alexander Dominic Renda
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Programming with Neural Surrogates of Programs

Thomas González Roberts
Thesis in the field of Aeronautics and Astronautics: Measuring Compliance to the International Telecommunication Union's Geosynchronous Orbital Assignments

Joshua David Robinson
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Modeling the Geometry of Neural Network Representation Spaces

John W. Romanishin
Thesis in the field of Mechanical Engineering: Self-Assembling Modular Systems: Enhancing Efficiency and Accuracy in Robotic Lattice Assembly

Luca Rosalia
(September, 2023)
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Soft Robotic Platforms for the Simulation of Cardiovascular Disease and Device Development

Jana I. Saadi
(February, 2024)
Thesis in the field of Mechanical Engineering: Generative Design Tools: Implications on Design Process, Designer Behavior, and Design Outcomes

Sandro Salgueiro Rodrigues Filho
(February, 2024)
Thesis in the field of Air Transportation Systems submitted to the Department of Aeronautics and Astronautics: Increasing Flexibility in the Design and Operation of Instrument Flight Procedures

Noah James Salk
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: A Class of High-Efficiency Air-Core Power Transformers with Flux-Guiding Resonators

Hadi Salman
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards ML Models That We Can Deploy Confidently

Lluís Saló Salgado
(February, 2024)
Thesis in the field of Geotechnical and Geoenvironmental Engineering submitted to the Department of Civil and Environmental Engineering: Numerical Modeling of Geologic Carbon Dioxide Storage in Faulted Siliciclastic Settings

Nikola Samardzic
Thesis in the field of Electrical Engineering and Computer Science: Practical Cryptographically Private and Verifiable Computation through Hardware-Software Co-Design

Eli Andres Sanchez
Thesis in the field of Nuclear Science and Engineering: Conventional Precision-Guided Hypersonic Weapons: An Unconventional Threat to Strategic Stability?

Sara Catherine Sand
Thesis in the field of Materials Science and Engineering: Understanding Ion Conduction Mechanisms in Polymer-Ceramic Composite Electrolytes for Lithium Ion Batteries

Luciano Santollani
Thesis in the field of Chemical Engineering: Engineering Cytokine Immunotherapies via Cell Surface Targeting

William James Sawyer
(September, 2023)
Thesis in the field of Mechanical Engineering: Aerosol Carbon Nanotube Production via Scalable Microplasma Synthesis of Catalyst Nanoparticles

Rachel Beth Schaefer
Thesis in the field of Civil and Environmental Engineering: Exploring Connections Between Seagrass Ecosystem Services and Meadow Hydrodynamics

Daphne Esther Schlesinger
Thesis in the field of Health Sciences and Technology submitted to the Harvard-MIT Program in Health Sciences and Technology: Physiology-Inspired Deep Learning for Improved Heart Failure Management

Chockalingam Senthilnathan
Thesis in the field of Materials and Structures submitted to the Department of Aeronautics and Astronautics: Understanding the Mechanics of Growth: A Large Deformation Theory for Coupled Swelling-Growth and Morphogenesis of Soft Biological Systems

Tim Niklas Seyde
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficient Learning Control via Structural Policy Priors, Latent World Models and Hierarchical Abstraction

Xiaoyu Shan
(September, 2023)
Thesis in the field of Civil and Environmental Engineering: Identifying Functional Groups in Microbial Communities Based on Ecological Patterns

Divya M. Shanmugam
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Steering Machine Learning Towards Equity & Reliability

Prafull Sharma
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning Low-Level Priors from Images for Inference and Synthesis

Carolyn Rose Sheline
(February, 2024)
Thesis in the field of Mechanical Engineering: Design of an Affordable, Precise Irrigation Controller that Lowers the Barrier to Water- and Energy-Sustainable Agriculture

Sydney Elaine Sherman
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Single-Sided Magnetic Resonance Sensors for Clinical Detection of Volume Status

Liang Shi
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Passing Visual Turing Test with Computational 3D Displays and Appearance Modeling

Miriam Eve Shiffman
Thesis in the field of Computational and Systems Biology: Uncertainty & Robustness for Single-Cell Studies

Pao-Chuan Shih
(September, 2023)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Vacuum Transistors Based on III-Nitrides Field Emitter Arrays with Self-Aligned-Gate

Thomas Scott Silver
Thesis in the field of Electrical Engineering and Computer Science: Neuro-Symbolic Learning for Bilevel Robot Planning

Sandeep B. Silwal
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficient Algorithms for Vector Similarities

Manish Singh
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Data Science in Investment Management

Nalini M. Singh
(September, 2023)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Physics-Inspired Deep Learning for Inverse Problems in MRI

Anubhav Sinha
(September, 2023)
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Spatially Precise *in situ* Transcriptomics in Intact Biological Systems

Vibhaalakshmi Sivaraman
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Towards Practical and Robust Neural Video Conferencing

Samuel Ronald Sledzieski
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Learning the Language of Biomolecular Interactions

Hanjun Song
(September, 2023)
Thesis in the field of Mechanical Engineering: Shared Control Based on Predictability Analysis With Application to Human-SuperLimb Collaboration

Kevin Anton Spiekermann
(September, 2023)
Thesis in the field of Chemical Engineering: Enabling Accurate and High-Throughput Kinetic Predictions via Message Passing Neural Networks

Jordan Andrew Stinson
Thesis in the field of Biological Engineering: Engineering Approaches to Overcome Immunosuppression Through Localized Tumor Microenvironment Reprogramming

Austin J. Stromme
(September, 2023)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Statistical Aspects of Optimal Transport

Tingyu Su
(February, 2024)
Thesis in the field of Mechanical Engineering: Templated Multiferroic Nanocomposites by Ion-Lithography

Joseph Suárez
Thesis in the field of Electrical Engineering and Computer Science: Neural MMO: Massively Multiagent Simulation and Learning

Deepak Adarsh Subramanian
(February, 2024)
Thesis in the field of Chemical Engineering: Developing Methods of Selective, Location-Specific Drug Delivery in the Gastrointestinal Tract

Suleeporn Sujichantararat
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: A Simulated Annealing Approach to Designing Optimal Decision Trees for Classification, Prescriptive, and Survival Analysis

Andrea Tagliabue
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Efficient Imitation Learning for Robust, Adaptive, Vision-based Agile Flight Under Uncertainty

Aik Rui Tan
Thesis in the field of Computational Materials Science and Engineering submitted to the Department of Materials Science and Engineering: Enhancing Robustness of Neural Network Interatomic Potentials through Sampling Methods and Uncertainty Quantification

Wenhui Tang
Thesis in the field of Mechanical Engineering: Geometry, Packing, and Synchronization in Three-dimensional (3D) Multicellular Development and Diseases

Yulun Tian
(September, 2023)
Thesis in the field of Autonomous Systems submitted to the Department of Aeronautics and Astronautics: Algorithms and Systems for Scalable Multi-Agent Geometric Estimation

Yuxuan Tian
Thesis in the field of Chemical Engineering: Multiplexed, Scalable, and Functionality Compatible Platforms for 3D Spatially Resolved Proteomic Profiling

Jan Onchoke Tiepelt
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: The Role of Triplet Exciton Lifetime in the Stability and Efficiency of Blue Phosphorescent OLEDs

Tony Tohme
Thesis in the field of Computational Science and Engineering submitted to the Department of Mechanical Engineering: Advances in Symbolic Regression: From Generalized Formulation to Density Estimation and Inverse Problem

Mohammed Abraham Toure
Thesis in the field of Biological Engineering: Pharmacological Modulation of Oncogenic Transcriptional Dysregulation

Vishrant Tripathi
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Information Freshness for Monitoring and Control over Wireless Networks

Lillian Yow Tsai
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Flexible Privacy via Disguising and Revealing

Megan Wai-Yang Tse
Thesis in the field of Biological Engineering: Discovering Antibiotic Adjuvants Against the Gram-Negative ESKAPE Pathogens

Nutth Tuchinda
(September, 2023)
Thesis in the field of Materials Science and Engineering: Polycrystalline Grain Boundary Solute Segregation at Finite Sizes and Temperatures

Mycal D. Tucker
Thesis in the field of Computational Science and Engineering: Using Principles from Cognitive Science to Analyze and Guide Language-Related Neural Networks

Dishita Girish Turakhia
Thesis in the field of Electrical Engineering and Computer Science: Designing Learner-Centric Tools for Learning Physical Skills

Carmen-Ioana Ursachi
(February, 2024)
Thesis in the field of Aerospace Computational Engineering submitted to the Department of Aeronautics and Astronautics: A Stress-Equivalent Spalart-Allmaras Wall Model with Local Boundary Conditions for RANS, DES, and LES

Jacqueline Alexus Valeri
(September, 2023)
Thesis in the field of Biological Engineering: Computationally-Guided Discovery and Design of Biological Sequences and Small Molecules

Georgia D. Van de Zande
(September, 2023)
Thesis in the field of Mechanical Engineering: Bringing the Water-Efficiency Benefits of Precision Irrigation to Resource-Constrained Farms Through an Automatic Scheduling-Manual Operation Irrigation Tool

Matthew Christopher VanBeek
(September, 2023)
Thesis in the field of Chemical Engineering: Interplay between Extra-Germinal Center Expansion of Memory B Cells and Affinity Maturation during the Humoral Recall Response

Arsen Vasilyan
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Enhancing Learning Algorithms via Sublinear-Time Methods

Nathan W. Volchko
(February, 2024)
Thesis in the field of Chemical Engineering: Understanding Heterogeneous Nucleation Mechanisms in Polyolefins

Jun Wan
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Improving Performance of Consensus Protocols

Chonghe Wang
Thesis in the field of Mechanical Engineering: Full Body, Continuous, Wearable Ultrasound

Hanrui Wang
Thesis in the field of Electrical Engineering and Computer Science: Toward Practical Quantum Computing Systems with Intelligent Cross-Stack Co-Design

Miaorong Wang
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Efficient Algorithms, Hardware Architectures and Circuits for Deep Learning Accelerators

Qing Yi Wang
(February, 2024)
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Innovations in Urban Computing: Uncertainty Quantification, Data Fusion, and Generative Urban Design

Yu Wang
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Geometric Computing beyond the Laplacian

Yu-Jou Wang
(February, 2024)
Thesis in the field of Nuclear Science and Engineering: A Structure-Based Machine Learning Approach For Spatial-Temporal Fluctuations in Nuclear Thermal Fluids

Noreen Angelina Wauford
(February, 2024)
Thesis in the field of Biological Engineering: Inducible Mammalian Genetic Switch Circuits for Applications in Programmable Therapeutics and Synthetic Morphogenesis

Aaron Michael West, Jr.
Thesis in the field of Mechanical Engineering: All Models are Wrong, Simple Models Provide Insight: A Study of Human Manipulation

Jongchan Woo
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Energy-Efficient Hardware Architectures for Enhanced Secure Communication Systems

Xinyu Wu
Thesis in the field of Communications and Networks submitted to the Department of Aeronautics and Astronautics: Analysis and Optimization of Networks in Overload

Amy Xiao
(September, 2023)
Thesis in the field of Biological Engineering: Surveillance of SARS-CoV-2: From Sewage to the Clinic

Qingyun Xie
(February, 2024)
Thesis in the field of Electrical Engineering and Computer Science: Gallium Nitride Integrated Circuits Based on a p-GaN Platform

Yilun Xu
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: On Physics-Inspired Generative Models

Zhongxia Yan
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Towards Learning-Guided Search for Coordination of Multi-Agent Transportation at Scale

Fan Yang
(September, 2023)
Thesis in the field of Materials Science and Engineering: Multi-Functional Flat Optics for Imaging and Sensing

Grace Helen Yang
(February, 2024)
Thesis in the field of Chemical Engineering: Thermally Drawn Piezoelectric Fibers Impart Acoustic Functionality to Fabrics

Leerang Yang
(February, 2024)
Thesis in the field of Chemical Engineering: Computational Study of Vaccination Strategies to Change B Cell Immunodominance

Lei Yang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Efficient Consensus and Synchronization for Distributed Systems

Mingyu Yang
Thesis in the field of Medical Engineering and Medical Physics submitted to the Harvard-MIT Program in Health Sciences and Technology: Myelination Diseases of the Central Nervous System: Artificial Axons as In Vitro Models of Chemomechanical Cues

Yifan Yang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Effective and Flexible Acceleration of Sparse Computations

Yuzhe Yang
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Machine Learning Approaches that Extend Healthcare: Algorithms & Applications

Zhenze Yang
Thesis in the field of Materials Science and Engineering: Using Deep Learning to Understand and Design Heterogeneous Materials

Kevin Ye
Thesis in the field of Materials Science and Engineering: Properties and Processing of Chalcogenide Perovskites

Yufeng Ye
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: The Quarton Coupler for Near-Ultrastrong Nonlinear Light-Matter Coupling in Superconducting Circuits

Matthew Yeung
Thesis in the field of Electrical Engineering and Computer Science: Lightwave Electronics Based on Nanoantenna Networks

Yip Fun Yeung
(February, 2024)
Thesis in the field of Mechanical Engineering: Intelligent Fault Detection for Non-Stationary Dynamical Systems

Victor Alan Ying
(September, 2023)
Thesis in the field of Electrical Engineering and Computer Science: Compiler-Hardware Co-Design for Pervasive Parallelization

Andrew Christopher Yu
Thesis in the field of Electrical Engineering and Computer Science: Lab-to-Fab Monolithic 3D Integrated Carbon Nanotube Transistors: Scaling and Reliability

Shangdi Yu
Thesis in the field of Electrical Engineering and Computer Science: Parallel Algorithms, Optimizations, and Benchmarks For Spatial and Graph Clustering

Tianyi Zeng
(February, 2024)
Thesis in the field of Electrical Engineering submitted to the Department of Electrical Engineering and Computer Science: Development of Broadband Semiconductor Laser Frequency Combs

Xiyu Zhai
Thesis in the field of Electrical Engineering and Computer Science: Towards Effective Theories for Deep Learning and Beyond

Molin Zhang
Thesis in the field of Electrical Engineering and Computer Science: Motion-Robust Machine Learning Methods for Region-of-Interest Tracking and Selective Magnetic Resonance Imaging with External Shim Arrays

Yuening Zhang
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Effective Teamwork Using a Theory of Mind Over Plans

Allan Zhao
(February, 2024)
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Transition-Aware Design Optimization of Winged VTOL Drones

Zijie Zhao
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: Next-Generation Intelligent Portfolio Management: Advancements in Natural Language Processing and Deep Reinforcement Learning for Financial Decision-Making

Cheng Zheng
Thesis in the field of Mechanical Engineering and Computation submitted to the Department of Mechanical Engineering: Redefining the Design Pipeline in Computational Imaging

Yunhan Zheng
(February, 2024)
Thesis in the field of Transportation submitted to the Department of Civil and Environmental Engineering: Carrots and Sticks in Green Moves: Assessing the Mobility, Environmental, Economic, and Social Impacts of Sustainable Mobility Solutions

Junyi Zhu
Thesis in the field of Computer Science submitted to the Department of Electrical Engineering and Computer Science: From Systemic to Regional: Personal Health and Medical Monitoring Systems that Adapt to Individual Variance

Meilin Zhu
Thesis in the field of Biological Engineering: Multimodal Strategies to Modulate Health and Disease-Associated Microbes

SCHOOL OF HUMANITIES, ARTS, AND SOCIAL SCIENCES, DOCTORAL

Doctor of Philosophy

School of Humanities, Arts, and Social Sciences

Nasir Talal Almasri
Thesis in the field of Political Science: The Rise and Fall of Revolution in the Middle East

Daniel Asherov
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Metrical Grids and Active Edges

Fulang Chen
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Obscured Universality in Mandarin

Viola Corradini
Thesis in the field of Economics: Essays in Labor and Education Economics

Roberto Corrao
Thesis in the field of Economics: Essay on the Economics of Information

Peter Michael Mason Cummings
(February, 2024)
Thesis in the field of Political Science: The Foundations of Anti-System Protests in Democracy

Filipe Hisao de Salles Kobayashi
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Quantifying over Individual Concepts

Marc de la Barrera i Bardalet
Thesis in the field of Economics: Essays in Macro Economics

Jasmine Hope English
Thesis in the field of Political Science: Essays on the Content and Consequences of Political Discussion

Brandon Enriquez
Thesis in the field of Economics: Essays in Labor Economics

Boer Fu
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Uncovering Mandarin Speaker Knowledge with Language Game Experiments

Ying Gao
Thesis in the field of Economics: Essays on Signaling and Disclosure

Matías Alberto Giannoni
(September, 2023)
Thesis in the field of Political Science: Firms, Labor Markets and Anti-System Politics: Essays on the Political Economy of Populism

Steven Gonzalez
(September, 2023)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Cloud Ecologies: An Environmental Ethnography of Data Centers

Aja Oona Grande
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: He Lāhui Hawai'i Ma O Ka Ho'omomona Hou I Ka 'Āina: Nā Mo'olelo Lōkahi Ma Ka Mokupuni 'O O'ahu (A Hawaiian Nation Through The Restoration Of 'Āina Momona: Stories Of Unity–Among Ourselves, That Which Feeds, Community, And Spirit–On The Island Of O'ahu)

Peter Nicholas Grishin
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Lessons from CP in Passamaquoddy and Beyond

Basil Halperin
Thesis in the field of Economics: Essays in Monetary Policy and Growth

Jessica Anne Heine
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: How Things Seem: Arbitrariness, Transparency, and Representation

Kathleen Renee Hintikka
(February, 2024)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Speech Therapy

Lisa Yen Zheng Ho
Thesis in the field of Economics: Essays in Development Economics

Jacob Elias Jaffe
(September, 2023)
Thesis in the field of Political Science: New Methods and Perspectives on the Administration of American Elections

Adam Kaplan
Thesis in the field of Political Science and Statistics submitted to the Department of Political Science: Sequential Heterogeneous Treatment Effect Estimation for Dynamic Time-Series Cross-Sectional Data

Mohit Karnani Bhagwan
(February, 2024)
Thesis in the field of Economics and Statistics: Essays on Empirical Matching Systems

Bumsoo Kim
Thesis in the field of Economics: Essays in International Economics and Macroeconomics

Rorisang Nikiwe Lekalake
(September, 2023)
Thesis in the field of Political Science: Property, Place, and Politics: Essays on the Political Economy of Land in South Africa

Cora Lea Lesure
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: Selecting for and Selecting Despite: A Javanese Case Study

Licheng Liu
Thesis in the field of Political Science and Statistics submitted to the Department of Political Science: Essays on Modeling and Casual Inference with Network and Longitudinal data

Zachary Daniel Markovich
(September, 2023)
Thesis in the field of Political Science and Statistics submitted to the Department of Political Science: Messy Measurement: Essays on Causal Inference With Unobserved Variables

John David Minnich
(September, 2023)
Thesis in the field of Political Science: Re-Innovation Nation: The Logic of Technology Transfer Policy in Rising China

Carlos Andres Molina Guerra
Thesis in the field of Economics: Essays on Political Economy

Lucy Elizabeth Page
Thesis in the field of Economics: Essays on the Economics of Climate Action

Elizabeth Knowles Parker-Magyar
Thesis in the field of Political Science: Workplace Networks and Organizational Autonomy in Contemporary Jordan

Joshua Edward Pearson
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Belief is Messy

Mina Erika Pollmann
(September, 2023)
Thesis in the field of Political Science: The Political Origins of Alliances

Apekshya Prasai
Thesis in the field of Political Science: Gendered Processes of Rebellion: Understanding Strategies for Organizing Violence

Kramer Michael Quist
Thesis in the field of Economics: Essays in Organizational Economics and Strategy

Charles Maxwell Rafkin
Thesis in the field of Economics: Essays in Public and Behavioral Economics

Gabrielle Lydia Marie Robbins
(September, 2023)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: Antimalarial Afterlives: Medicine for a Planetary Age from Madagascar

Vincent S Rouillard
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: A Semantic Account of Distributional Constraints on Temporal in-Adverbials

Hannah Katherine Ruebeck
Thesis in the field of Economics: Essays on the Role of Identity in Economic and Political Behavior

Stuart Ehrlich Russell
(September, 2023)
Thesis in the field of Political Science: Politics within the State: Essays on Bureaucracy in Sub-Saharan Africa

Anna Elizabeth Russo
Thesis in the field of Economics: Essays in Environmental and Healthcare Market Design

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Thesis in the field of Economics: Essays in International Trade and Macroeconomics

Evan Joseph Soltas
Thesis in the field of Economics: Tax Policy, Housing Markets, and Redistribution

Abigail Thwaites
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Knowing How, Knowing Who, Knowing What to Do

Eliot Matthew Watkins
(September, 2023)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Within 'Reason': A Study of Normative Language

Laura Weiwu
Thesis in the field of Economics: Essays on Inequality in Cities

Nicole Elizabeth Wilson
Thesis in the field of Political Science: Seeing Like an Estate: Middle-Class Political Behavior After Collective Exit

Tyler Brooke Wilson
(September, 2023)
Thesis in the field of Philosophy submitted to the Department of Linguistics and Philosophy: Bounded Rationality as a Strategy for Cognitive Science

Chloe Elisha Wittenberg
(September, 2023)
Thesis in the field of Political Science: Is the Medium Still the Message? Assessing the Role of Video in Political Persuasion

Jamie Jing-Men Wong
(September, 2023)
Thesis in the field of History, Anthropology, and Science, Technology, and Society submitted to the Program in Science, Technology, and Society: The Politics of Scale and Scaling in Chinese Governance and Venture Capitalism

Christopher Minwoo Yang
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: How Joint Inference of the Lexicon and Phonology Affects the Learnability of Process Interactions

Hao Zhang
Thesis in the field of Political Science: Three Essays on the Politics of Firms and Global Production Networks

Stanislao Zompi'
(September, 2023)
Thesis in the field of Linguistics submitted to the Department of Linguistics and Philosophy: ABA in Multidimensional Paradigms: A Max/Dep-Based Account

SLOAN SCHOOL OF MANAGEMENT, DOCTORAL

Doctor of Philosophy

Sloan School of Management

Jennifer Nancy Lee Allen
Thesis in the field of Management: Essays on Understanding and Combating Misinformation at Scale

Kayhan Behdin
Thesis in the field of Operations Research: Statistical Learning with Discrete Structures: Statistical and Computational Perspectives

Mohammed Amine Bennouna
Thesis in the field of Operations Research: Efficient Robustness and Interpretability in Learning and Data-Driven Decision-Making

Maya Bidanda
Thesis in the field of Management: Essays on Entrepreneurship and Finance

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Thesis in the field of Operations Research: Fundamental Limits in Learning for Generalizability, Data Resilience, and Resource Efficiency

Matthew Patrick Cashman
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Thesis in the field of Management: Nothing to See, Nothing to Say, and Noting How Much: Three Essays on Information and Behavior

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Thesis in the field of Operations Research: Design, Planning, and Flexible Operations for Collaborative Platform-based Systems

Shuvomoy Das Gupta
Thesis in the field of Operations Research: Advances in Computer-Assisted Design and Analysis of First-Order Optimization Methods and Related Problems

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Thesis in the field of Management: Essays in Household and Behavioral Finance

Joanne Im
Thesis in the field of Management: Essays in Financial Economics

Raquel Renee Kessinger
Thesis in the field of Management: Speaking Up, Speaking Out, and Making Movements: How Employee Activists Raise Social, Political, and Moral Concerns at Work

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Jose Luis Lopez
Thesis in the field of Management: Essays in System Dynamics for Operations Management: Policy, Platforms and Pricing

Claire Christine McKenna
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Thesis in the field of Management: Essays on Unemployment

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Thesis in the field of Management: Essays on Culture and Coordination

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Thesis in the field of Management: Closing the Voice Gap: Evidence from a Hospital System's Empowerment Program

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Thesis in the field of Management: Essays on Online Platforms and Human-Algorithm Interactions

Zanele Tanyaradzwa Munyikwa
Thesis in the field of Management: Essays on the Economics of Artificial Intelligence and Future of Knowledge Work

Yury Olshanskiy
Thesis in the field of Management: Essays in Financial Economics

Lindsey Raymond
Thesis in the field of Management: Essays on the Economics of Algorithms, Markets, and Organizations

Justin Rand Scott
Thesis in the field of Management: Essays in Financial Economics

Sohil Shah
Thesis in the field of Operations Research: Information Design for Platform-Enabled Operations

Leann Pearl Geetha Thayaparan
Thesis in the field of Operations Research: Analytics and Decision Making in Sustainable Operations

Kimberly M. Villalobos Carballo
Thesis in the field of Operations Research: Integrating Optimization and Machine Learning: Theory, Computation and Healthcare Applications

Gabriel Medaglia Voelcker
Thesis in the field of Management: Attention To Retention: The Informativeness Of Insiders' Decision to Retain Shares

Haoyue Wang
Thesis in the field of Operations Research: Large-Scale Algorithms for Machine Learning: Efficiency, Estimation Errors, and Beyond

Yifei Wang
Thesis in the field of Management: Three Essays on the Role of Individualized Data in Marketing

Emma Benz Wiles
Thesis in the field of Management: Essays on Artificial Intelligence and Labor Markets

Cynthia Zeng
Thesis in the field of Operations Research: Multimodal Machine Learning for Climate Change

SCHOOL OF SCIENCE, DOCTORAL

Doctor of Philosophy

School of Science

Yamilex Acevedo-Sánchez
Thesis in the field of Biology: An Obligate Intracellular Bacterial Pathogen Forms Extensive and Stable Interkingdom Contacts with the Endoplasmic Reticulum

Ammar Mohammed Alali
(February, 2024)
Thesis in the field of Geophysics submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Physics vs Data-Based Optimization Application in the Petroleum Industry Using Geophysical Inputs and Transformations

Stephanie Michelle Amtry
Thesis in the field of Chemistry submitted to the Department of Chemistry: Chemical Spin Patterning in Metal-Organic Frameworks

Gisele A. Andree
Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural Investigation of Allosteric Regulation in Class III Ribonucleotide Reductases

Jason Lee Andresen
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Development of Chemically-Defined Platform Materials for Localized Delivery of RNA Therapeutics

Martin Arreola Villanueva
(February, 2024)
Thesis in the field of Computational and Molecular Biology submitted to the Department of Biology: Profiling, Modeling and Engineering of Human Tissue Responses for Clinical Interventions

Mariona Badenas Agusti
Thesis in the field of Planetary Sciences submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Small Stars, Big Data: Detection and Characterization of Polluted White Dwarfs in the Era of Machine Learning

Andrew Harrington Bahle
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Neural Dynamic Underlying and Auditory Memory for Song Learning

Jacob Scott Baker
Thesis in the field of Microbiology submitted to the Department of Biology: Lineage-Level Intraspecies Community Dynamics

Julius Baldauf
Thesis in the field of Mathematics: The Ricci Flow on Spin Manifolds

Juliet Charlotte Barker
Thesis in the field of Biology: How Much DNA is Too Much?

Jade Rose Bath
Thesis in the field of Microbiology submitted to the Department of Biology: Mucins Regulate Virulence and Colonization Factors in *Streptococcus Pneumoniae*

Jessica Claire Beard
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Leveraging the Photochemistry of *N*-Nitrosamines for Their Aqueous Detection, and Development of a Novel Hemi-Iptycene for Porous Polymers

Victoria Frances Beja-Glasser
(September, 2023)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Investigating the Physiological Function of Alzheimer's Disease Risk Gene *Abca7* in the Central Nervous System

David B. Berkinsky
Thesis in the field of Chemistry submitted to the Department of Chemistry: Optical Properties of Colloidal II-VI and III-V Semiconductor Nanocrystals: Single Nanocrystal Photon Correlation Spectroscopy

Alison Elizabeth Press Biester
Thesis in the field of Chemistry submitted to the Department of Chemistry: Structural Insights into Microbial One-Carbon Metabolic Enzymes: Ni-Fe-S-Dependent Carbon Monoxide Dehydrogenases and Acetyl-CoA Synthases

Adam Bayldon Block
Thesis in the field of Mathematics and Statistics submitted to the Department of Mathematics: Smoothed Online Learning: Theory and Applications

Daniel Paul Bollen
(September, 2023)
Thesis in the field of Biology: Reversible Germline Dynamics of Caenorhabditis Elegans during Exposure to Pseudomonas Aeruginosa

Trever Michael Bostelaar
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Metallocluster Site-Differentiation and Subsite Selective Heterometal Substitution

Michael Samir Calzadilla
Thesis in the field of Physics: Evolution of Supermassive Black Hole Feedback in Galaxy Clusters

Hayden Monroe Carder
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Radical Tools to Transform Biomass Sugars

Letícia Cardoso da Costa
Thesis in the field of Chemistry submitted to the Department of Chemistry: Design of Cleavable Monomers and Cross-Linkers for the Synthesis of Degradable Polymer Architectures

Maria Alejandra Castellanos Morales
(February, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Theoretical Design of Molecular Nanostructures for Exciton Control

Sarah Mary Chang
Thesis in the field of Biochemistry submitted to the Department of Biology: Control of Cellular Redox State and Biomass Synthesis

An Thien Chu
(February, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Leveraging the Properties of Aprotic Solvents Towards Efficient Electrocatalytic Carbon Dioxide Reduction

Murilo Corato Zanarella
Thesis in the field of Mathematics: First Explicit Reciprocity Law for Unitary Friedberg-Jacquet Periods

Sebastian Thomas Coupe
(September, 2023)
Thesis in the field of Biophysics submitted to the Department of Biology: The Effects of DEAD-box Helicase Activity on Biomolecular Condensate Structure and Dynamics

Amanda Elizabeth Cowfer
(February, 2024)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Investigation of Synthetic Proteins Produced via Automated Fast-Flow Peptide Synthesis

Andrés B. Crane
(February, 2024)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Characterization of the Role of Differential Gene Expression and RNA Editing in *Drosophila* Tonic and Phasic Motoneuron Diversity

Gefei Dang
Thesis in the field of Mathematics: Local Newforms and Spherical Characters for Unitary Groups

Michael Richard Das
Thesis in the field of Biology: CAG Repeat Expansions Induce Cytoplasmic RNA Aggregation

Blake Stephensen Dastrup
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Time-Resolved THz Magnetospectroscopy: Techniques and Applications

Griffen James Desroches
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Mechanical Reinforcement and Property Tuning of Adhesive Elastomers with Polymer-Grafted Inorganic Nanoparticles

Zhihuan Dong
Thesis in the field of Physics: Interplay Between Correlation and Topology in Two-Dimensional Condensed Matter Systems

David Thomas Driscoll
Thesis in the field of Biology: The Role of Orc6 in ORC Binding-Site Switching During Helicase Loading

Gabrielle Drummond
(February, 2024)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: The Role of Locus Coeruleus Norepinephrine in Reinforcement Learning

Lisa Valerie Drummond
Thesis in the field of Physics: Gyroscropes Orbiting Gargantuan Black Holes: Spinning Secondaries in Extreme Mass Ratio Inspirals

Li Du
Thesis in the field of Physics: Super-Resolution Control of Ultracold Dipolar Atoms on a 50 nm Scale

Diana Dumit
Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: A Biogeochemical Investigation of Trunk River Lagoon, Falmouth, Massachusetts

Reuven Falkovich
Thesis in the field of Chemistry submitted to the Department of Chemistry: Synaptic Multimodal Imaging and Molecular Network Inference

Ardavan Farahvash
Thesis in the field of Chemistry submitted to the Department of Chemistry: Memory and Fluctuations in Chemical Dynamics

Charlotte Farquhar
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: The Discovery and Chemical Synthesis of Peptides and Proteins that Cross Biological Barriers

Nikole Louise Fendler
Thesis in the field of Biochemistry submitted to the Department of Biology: Characterization of DNA Binding and Entrapment by the Retroelement Silencing Factor MORC2

Alexandra C. Ferguson
(February, 2024)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Maintenance and Metalearning of Time Interval Representations

Bryan Thomas Fichera
Thesis in the field of Physics: Ultrafast Spectroscopy and Control of Correlated Electron Systems

Atakan Hilmi Fırat
Thesis in the field of Physics: Hyperbolic String Field Theory

Åsmund Schiager Folkestad
Thesis in the field of Physics: From Quantum Information to Cosmic Censorship: Emergent Spacetimes and Their Surfaces

Colin Emory Fowler
Thesis in the field of Biology: Targeting PRMT5 Impairs Cancer Proliferation through Splicing but Promotes State Shifts that Enable Resistance and Disease Progression

Elisabeth Marguerite Freese
(September, 2023)
Thesis in the field of Atmospheric Chemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Energy Policy Impacts on Air Quality and Climate at the National, Regional and Global Scale

Danielle Frostig
Thesis in the field of Physics: The Wide-Field Infrared Transient Explorer (WINTER): A New Near-Infrared Time-Domain Survey

Dhruva Ganapathy
Thesis in the field of Physics: Expanding the Reach of Quantum Enhanced Gravitational-Wave Detectors

Sarah R. Geller
(September, 2023)
Thesis in the field of Physics: Cosmic Echoes of the Early Universe: From Primordial Black Holes to Gravitational Waves

Patrik Robert Gerber
Thesis in the field of Mathematics and Statistics submitted to the Department of Mathematics: Likelihood-Free Hypothesis Testing and Applications of the Energy Distance

JoLynn Barbara Giancola
Thesis in the field of Chemistry submitted to the Department of Chemistry: Cytosolic Delivery of Functional Biomolecules

Ana Glidden
(February, 2024)
Thesis in the field of Planetary Sciences submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Isotopes as a Tool for Exploring Exoplanet Atmospheres

Annika Lucienne Gomez
Thesis in the field of Microbiology submitted to the Department of Biology: Ecological Forces Affecting Microbial Eukaryotes in the Coastal Ocean

Shashi Gowda
Thesis in the field of Mathematics: Symbolic-Numeric Programming in Scientific Computing

Xin Gu
Thesis in the field of Chemistry submitted to the Department of Chemistry: Leveraging Radical Intermediate in Stereochemical Editing and Dehydrogenative Tailoring

Chuchu Guo
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Siderophore-Based Drug Repurposing of Platinum Anticancer Agents as Targeted Antibiotics and Investigation of Pt-Induced DNA Damage in Gram-Negative Bacteria

James Gregory Hall, Jr.
(September, 2023)
Thesis in the field of Geobiology submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Probing the Role of Clay Minerals in the Preservation of Organics and Soft Tissues

Jackson Russell Hance
(September, 2023)
Thesis in the field of Mathematics: Regularity of the Level Set Equation for Mean Curvature Flow with an Axis of Symmetry

Alasdair D. Hastewell
Thesis in the field of Mathematics: Robust Spectral Representations and Model Inference for Biological Dynamics

Victoria J. Hernandez
Thesis in the field of Biochemistry submitted to the Department of Biology: An Investigation of TorsinA Interaction Partners

Alice Lydia Herneisen
(September, 2023)
Thesis in the field of Biology: Multidimensional Profiling of the Toxoplasma Gondii Proteome

Kathleen Whitmore Higgins
Thesis in the field of Biology: Rapid Expansion and Specialization of the TAS2R Bitter Taste Receptor Family in Amphibians

Kimberly Kathleen Hollister
Thesis in the field of Chemistry submitted to the Department of Chemistry: Redox Flexible Borafluorenes and Borepins: Synthesis, Structural Analysis and Optoelectronic Properties

Eghbal Hosseini Asl
Thesis in the field of Computational Neuroscience submitted to the Department of Brain and Cognitive Sciences: Towards Synergistic Understanding of Language Processing in Biological & Artificial Systems

Susana Maria Hoyos Muñoz
Thesis in the field of Geochemistry submitted to the Department of Earth, Atmospheric, and Planetary Sciences: Melting Processes in Planetary Interiors

Haojun Jia
Thesis in the field of Chemistry submitted to the Department of Chemistry: Revealing Structural and Spin-State Dependent Reactivity of Single Atom Catalysts (SACs) with Systematically Improvable Computational Tools

Robert Edward Johnston
(September, 2023)
Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Measurement of the Deeply Virtual Neutral Pion Electroproduction Cross Section off the Proton at 10.6 GeV Using the CLAS12 Detector

Min Gu Kang
(September, 2023)
Thesis in the field of Physics: Kagome Lattice Quantum Materials

Arun Shrinath Kannan
Thesis in the field of Mathematics: On Lie Theory in the Verlinde Category

Samuel Joshua Kaser
Thesis in the field of Chemistry submitted to the Department of Chemistry: Small Molecule Motion Within and Through Organic Nanomaterials: An Anthology

Carina Kauf
Thesis in the field of Computational Cognitive Neuroscience: The Relationship between Linguistic Representations in Biological and Artificial Neural Networks

Veda Dharma Khadka
Thesis in the field of Microbiology submitted to the Department of Biology: Staphylococci of the Skin: Consequences for Host Health

Landon James Kilgallon
Thesis in the field of Chemistry submitted to the Department of Chemistry: New Purification Strategies and Monomer Platforms for Ruthenium-Initiated Living Ring-Opening Metathesis Polymerization

Hunter Oren King
(February, 2024)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Branching Out: How a Planarian Neoblast Generates Cellular Diversity

Laurel Fay Kinman
Thesis in the field of Biophysical Chemistry and Molecular Structure submitted to the Department of Biology: Approaches to Quantitatively Analyze Protein Complex Assembly and Regulation

Daniil Kliuev
Thesis in the field of Mathematics: Positive Traces and Analytic Langlands Correspondence

Catherine E. Koch
Thesis in the field of Genetics submitted to the Department of Biology: Utilizing In Vivo Genome-Wide CRISPR-Cas9 Screens in Immunocompetent Mouse Models to Identify Novel Tumor Liabilities and Explore Mechanisms of Resistance to Chimeric Antigen Receptor T-cell Therapy

Vasily Krylov
Thesis in the field of Mathematics: Geometry and Representation Theory of Symplectic Singularities in the Context of Symplectic Duality

Swanny Aisha Lamboy Rodríguez
Thesis in the field of Biology: YAP and TAZ have Functionally Redundant Roles in Uveal Melanoma

Benjamin Bret Lane
Thesis in the field of Physics: Conditional Mechanical Squeezing of a Micromechanical Oscillator Approaching the Quantum Regime

Jae Hee Lee
Thesis in the field of Mathematics: Quantum Steenrod Operations of Symplectic Resolutions

Michael Alan Lee
Thesis in the field of Chemistry submitted to the Department of Chemistry: Experimental and Computational Advancements in Peptidomimetic Ligand Discovery

Jet Lem
(September, 2023)
Thesis in the field of Chemistry submitted to the Department of Chemistry: Materials at Extremes: Shock-Induced Fracture and Phase Transitions

Mandara Alexis Levine
(February, 2024)
Thesis in the field of Microbiology submitted to the Department of Biology: Temporal Gene Expression and Regulation in T4 Phage

Ishan Levy
Thesis in the field of Mathematics: The K-Theory of the Chromatic Filtration and the Telescope Conjecture

Noah Benjamin Lewis
Thesis in the field of Chemistry submitted to the Department of Chemistry: Mechanistic Studies of Interfacial Proton-Coupled Electron Transfer to Molecularly Defined Surface Sites

Bryan Lee Linehan
Thesis in the field of Physics: Transport Properties of Divertor Edge Plasmas Measured with Multi-Spectral Imaging

Bingxu Liu
(September, 2023)
Thesis in the field of Biology: Inheritance, Innovation, and Adaptation of Immune Systems: Regulation of the Innate Immunity Sensor Stimulator of Interferon Genes (STING)

Shuming Liu
Thesis in the field of Chemistry submitted to the Department of Chemistry: Understanding Chromatin Organization and Dynamics with Coarse-Grained Modeling

Tongtong Liu
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Thesis in the field of Physics, Statistics, and Data Science submitted to the Department of Physics: Probing Entanglement and Symmetry Breaking Orders via Spectroscopies and Machine Learning

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(September, 2023)
Thesis in the field of Mathematics and Statistics submitted to the Department of Mathematics: Upper and Lower Bounds for Sampling

Gurrein Kaur Madan
(February, 2024)
Thesis in the field of Neuroscience submitted to the Department of Brain and Cognitive Sciences: Neural Basis of Persistent Behavioral States in the Nematode C. Elegans

Elias Nathaniel Mansbach
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AWARDED JOINTLY WITH THE WOODS HOLE OCEANOGRAPHIC INSTITUTION,DOCTORAL

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Joanna Dudley Millstein
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Brendan William O'Neill
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Jordan Avery Pitt
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John Edward San Soucie
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2nd Lieutenant
Micah Borrero
Edenna Chen
Jesse Cummings
Timothy Grazier
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Ashley Luo
Remeyn Mechura
Lucy Nester
Sarah Sams
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Spencer Yoder
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United States Army

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