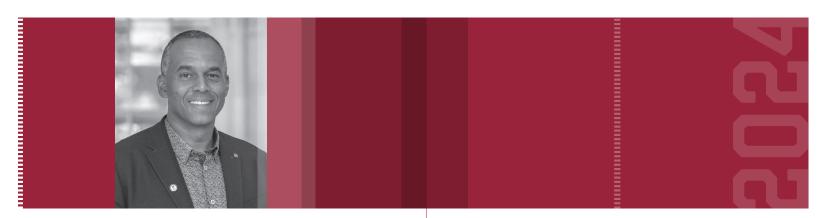
# WELCOME



### FROM PRESIDENT DAVID R. HARRIS

Each spring for the last 34 years, the College has paused classes to celebrate achievement of our students in scholarship, research and the arts.

Welcome to the 2024 Steinmetz Symposium.

The Union community values collaboration between and among students and faculty. The presentations, exhibits and performances you'll see today reflect the intellectual and creative curiosity of our students. Today's events also reflect the boundless dedication of our faculty and staff.

On Steinmetz Day, it is exciting to see the energy of our students and the joy they find in developing and presenting their work, and the support they show for one another. Today will be a meaningful experience that stays with our students. We hear often from alumni that participating in Steinmetz was a significant and transformational milestone.

Please join me in thanking the organizing committee for the 2024 Steinmetz Symposium. In particular, I want to acknowledge Heather Watson, associate professor of physics and director of undergraduate research; and Ruth Cotter, assistant to the dean of studies.

Finally, I hope you can join us for Prize Day in Memorial Chapel on Saturday, May 11, at 1 p.m., when we will recognize our students for scholarly excellence and leadership.







To view the online program for the 2024 Steinmetz
Symposium, visit: steinmetz.union.edu/program

## **SCHEDULE OF EVENTS**

d research achievement.  nout campus.  tudent Visual Arts Exhibition  5:00 p.m through Sunday, May 12, 2024 in Digital Art, Drawing, Painting,
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in Digital Art, Drawing, Painting,
CENTER FOR VISUAL ARTS
e"

SATURDAY, MAY 11	PRIZE DAY				
11:00 a.m.	Union College Jazz Ensemble and Latin Percussion Workshop Steinmetz Concert				
	Professor Tim Olsen, Director				
	FRED L. EMERSON FOUNDATION AUDITORIUM • TAYLOR MUSIC CENTER				
1:00 p.m 3:00 p.m.	Presentation of Prizes and Recognition				
	MEMORIAL CHAPEL				

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FRIDAY, MAY 10		
The 2024 Annual Steinmetz Symposium	Crowell and West Galleries,	4
Student Visual Arts Exhibition 9:00 a.m 5:00 p.m.	Feigenbaum Center for Visual Arts	
Session I: Concurrent Oral Presentations 8:30 - 10:10 a.m.		6
Session II 10:20 a.m 12:00 p.m.		10
The Templeton Institute's "Great AI Debate" 11:30 - 12:30 p.m.	Olin Auditorium (Olin 115)	13
Session III: Poster Presentations and Team Displays 12:30 - 1:50 p.m.		14
Session IV: Concurrent Oral Presentations 1:50 - 3:30 p.m.		18
Session V: Concurrent Oral Presentations 3:40 - 5:20 p.m.		21
Lothridge Festival of Dance 2024 4:00 p.m.	Nott Memorial	24
Spring Concert: Bon Voyage 8:00 p.m.	Memorial Chapel	26

THE BOOKSTORE WILL BE OPEN:	SCHAFFER LIBRARY WILL BE OPEN:	THE NOTT MEMORIAL WILL BE OPEN:	
Friday, 8:45 a.m. – 5 p.m.	Friday, 8 a.m midnight	Friday, 10 a.m. – 8 p.m.	
Saturday, 10 a.m. – 3 p.m.	Saturday, 10 a.m - midnight	Saturday, 10 a.m. – 6 p.m.	
Sunday, closed	Sunday, 10 a.m 2 a.m.	Sunday, 10 a.m. – 6 p.m.	

# THE 2024 ANNUAL STEINMETZ SYMPOSIUM STUDENT VISUAL ARTS EXHIBITION

9:00 a.m. - 5:00 p.m. / Crowell and West Galleries in the Feigenbaum Center for Visual Arts

The Department of Visual Arts is proud to present this year's Steinmetz Exhibition, selected from the most outstanding student work in Drawing, Painting, Printmaking, Photography, Sculpture, and Digital Art. The exhibiting artists include departmental majors, minors, as well as students from other disciplines. The dynamic, creative synthesis embodied in this year's work demonstrates our students' exploration of their media, development of their concepts, and complex dialogues between the past, present, and future.

The exhibition is held in the Crowell and West Galleries, Feigenbaum Center for Visual Arts, and will be open daily from 9:00 a.m. - 5:00 p.m. through Sunday, May 12, 2024.



## Students exhibiting in the Visual Arts Steinmetz Exhibition:

#### DRAWING

Jessica Strzepek Abby Goodell Alanna Byrne Noah Schott Bella Juliano Sarah Unger Antoinette Gamble Atlas Bederson Andy Mullen Alex Kapilian Sae Kanda Gisselle Boyer Perez Walter Kraus Ashlesha Bhagat Iris Phenix Yuxuan Li **Emily Evans** Bryan Nunez Liza Pustavoitau Aksel Reid Nolan Kelley Abby Trzepla Jane Schreiner Alma Moreno Grace Parini Ysabel Thompson Isabel Pacchiana

Gigi Rankin

#### PAINTING

Sam Crowley
Annabel Johnson
Maya Dow
Lily Van Buren
Alice Phan
Sophia Rothberg
Simon Rhodes
Georgia Baer
Caroline Werner
Haley Dineen
Alissa Tsay
Susanna Wright

#### PRINTMAKING

Molly Bannon
Forrest May
Dario Brandao
David Bershad
Mia Polenberg
David Fabian
Idalis Fuentes
Epephanie LaBoy
Claudia Sanz
Eliza Dorf
Jane Schreiner
Ambrose Proctor



### **PHOTOGRAPHY**

Juliette Richenthal Aspen Morris Evan Perry Sean Speck Chloe Ginsberg Iris Phenix Isabel Pacchiana Housseynatou Diallo Grace Wu Caroline Werner Cate Hicks Nishtha Agarwal Forrest May Zachary Anisman Jose Moreno de Los Santos Keara Page Aidan Munns Kavita Trivedi Ashlesha Bhagat Madison Mack Sadie Hill

### SCULPTURE

Jayson Bromberg Jonathan Fischman Laura Kaso Athanasia Kytoudi Issac Levey Ambrose Proctor Sara Marenco Victoria Donatacci Gabriela Baker Victoria Davison Anyerys Diaz Polanco James Heffernan Jennifer Lopez Leslie Quijada Robert Speck Lesley Zamora Qianying Zhu

### DIGITAL ART

Claudia Porto Hades Panlilio Ashlesha Bhagat Alissa Tsay

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#### 8:30 a.m. - 10:10 a.m. / Concurrent Oral Presentations

#### KARP 001

## Understanding Challenges in Home-Based End of Life Care

MODERATOR: CAROL WEISSE

#### 8:30 a.m. / Jasmine Choi

Antidepressant Discontinuation Syndrome Among Hospice Patients in a Residential Care Home Setting

#### 8:50 a.m. / Maxine Wetzel

The Role of the Hospice Social Worker in the Care of Individuals with a History of Substance Use

#### 9:10 a.m. / Meredith Killian

Phenomenological Analysis of Hallucinations and Dementia Prevalence in a Residential Care Home Setting at the End of Life

#### 9:30 a.m. / Rosemary Crooker

Exploring Emotions Near Death in a Social Model Hospice Residential Care Home Setting

#### 9:50 a.m. / Jasmine Choi

Obenzinger Scholarship: Patient and Family Advisory Committee (PFAC) at Hometown Health Centers

#### KARP 002

# Body Image, Weight Stigma and Eating Disorders

MODERATOR: CATHERINE WALKER

#### 8:30 a.m. / Emily Deyst

Effect of the Thin-Ideal on Women's Cognitive Performance

#### 8:50 a.m. / Kiara Lewis

Food Images and Attentional Biases related to Eating Disorder Pathology in Nonclinical Sample

#### 9:10 a.m. / Victoria Avon

Borderline Personality Disorder, Body Modification, and Emotional Regulation

#### 9:30 a.m. / Natalia Garcia

You just have to set your mind to it: How weight controllability beliefs drive weight stigma

#### **KARP 103**

#### **History 1**

MODERATOR: MARK WALKER

#### 8:30 a.m. / Grant deBoer

Propaganda for Peace: Uncovering the Origins, Motives, and Consequences of Public Relations

#### 8:50 a.m. / Charles Alekson

Politics, Fear, and Secrecy: A Comparison of the Three Mile Island, Chernobyl, and Fukushima Nuclear Accidents

#### 9:10 a.m. / Margaret Peterjohn

The Tricontinental: Revolutionary Cuba's Attempt to Unite the Global South Through Liberation Movements During the Cold War

#### 9:30 a.m. / Catherine Lapham

Art and Medicine: The Influence of Religion on Perceptions of Medicine in Ancient Greece and Medieval Europe

#### **KARP 105**

### **English 1**

MODERATOR: SHENA MCAULIFFE

#### 8:30 a.m. / Elias Valore-Caplan

Science and Storytelling: From Enlightenment to Romantic

#### 8:50 a.m. / Quincy Brown

Creating Interactive Narratives to Reveal Truths about Death and Dying in Residential Care Homes

#### 9:10 a.m. / Cassandra DeGeorge

"The Banks of Binnekill": The History of the Stockade through Short Fiction

### 9:30 a.m. / Alex B. Roginski

Understanding Narratives in Hospice through Storytelling

#### 8:30 a.m. - 10:10 a.m. / Concurrent Oral Presentations

#### LIPPMAN 012

### Sociology 1

MODERATOR: DEIDRE HILL BUTLER

#### 8:30 a.m. / Sarah Dames

Teacher Experiences in Various Geographic, Socioeconomic, and Racially Diverse School Districts

#### 8:50 a.m. / Mary Gallary

The role of empathy in addressing communication disorders among children: The need for Holistic Therapeutic treatment approaches

#### 9:10 a.m. / Sophie Chesnut

Exploring Immigration Status as a Mechanism of Abuse and its Consequences as a Barrier to Reporting Intimate Partner Violence

#### 9:30 a.m. / Amy Aranda

Creating Shared Vulnerability and Resistance: The Transformative Impact of Community Organizations on Hispanic Immigrant Women's Racial Identity Through Intimate Partner Violence & Birth Outcomes

#### 9:50 a.m. / Stella Rowley

The Making of a Scientist: An Ethnographic Study of Geoscientists in a Liberal Arts College and Beyond

#### LIPPMAN 014

### **Topics in Macroeconomics**

MODERATOR: DONG CHENG

#### 8:30 a.m. / Liam Hoye

Identifying Primary Drivers of Real Estate Investment **Trust Performance** 

#### 8:50 a.m. / Katherine Riley

The Effect of Settlement Currency Exchange Rates on Oil Prices: Examining the Effect of Geopolitical Risk

#### 9:10 a.m. / Dimitrios Giovanoudas

Exchange Rate Pass-Through in Greece: Analyzing the Impact of European Central Bank Policies from 2002-2022

#### LIPPMAN 016

#### **Economics 1**

MODERATOR: TOMAS DVORAK

#### 8:30 a.m. / Jack Thompson

The effectiveness of consumption smoothing: theory vs. practice

#### 8:50 a.m. / Ryosuke Hashimoto

Do Investors Understand Portfolios with ETFs? Investor Awareness of ETFs' Contributions to Portfolio Exposure

#### 9:10 a.m. / Anton Tatus

Valuation of Metso Corporation (METSO.HE, METSO.FH): Arriving at an Enterprise Valuation of a Leading Mining Equipment Manufacturer

#### 9:30 a.m. / Mayur Pabba

Racial Disparities in Cancer Screening Utilization before and after the COVID-19 Pandemic

#### 9:50 a.m. / Nishtha Agarwal

The Global Textile Value Chain Transformation: Impact of COVID-19 Lockdown on China's Dominance and the Shift to Other Asian Countries

#### LIPPMAN 017

#### **Political Science 1**

MODERATOR: BRADLEY HAYS

#### 8:30 a.m. / Luca Richo

Redefining Human Rights in Latin America

#### 8:50 a.m. / Katelyn Hirnak

The Feminist Legacy of Susan Sontag

#### 9:10 a.m. / Grace Stearns

Agro-Industrial Complexes: Theorizing the Human Domination of Nonhuman Lives in the United States

#### 9:30 a.m. / Peter D'Agata

You Need People Like Me: Demonization and Idealization of the Immigrant in the 1932 Film Scarface and its 1983 Remake

### 9:50 a.m. / Giani Digennaro

Reimagining Land Management in the Amazon Using Native Techniques

#### 8:30 a.m. - 10:10 a.m. / Concurrent Oral Presentations

#### **ISEC 118**

### **Math and Computer Science**

MODERATORS: RYLAN GAJEK-LEONARD
AND JEFFREY HATLEY

#### 8:30 a.m. / Olivia Gwinnett

Linear Codes and their Properties

#### 8:50 a.m. / Emily Vasquez

Finding the Relationship between Triangles and the Pythagorean Theorem using Calculus

#### 9:10 a.m. / Mayah Teplitskiy

Elliptic Curves and Diophantine Stability

#### 9:30 a.m. / Uri Tomer

Newton polygons of polynomials composed with Eisenstein polynomials

#### 9:50 a.m. / Diep (Emma) Vu

How can the fast adaptation of cross-accented speech recognition architecture help virtual assistants mitigate racial bias?

#### **ISEC 120**

### Reproductive Endocrinology

MODERATOR: BRIAN COHEN

#### 8:30 a.m. / Davis Richard

Investigation on the impact of sphingolipid disrupting agents on follicle-stimulating hormone receptor function

#### 8:50 a.m. / Hannah Shames

Investigating the Role of Caveolin in Human FSH Receptor Activity

#### 9:10 a.m. / Morgan Malinow

Mutations in Caveolin Binding Motif Alter Human Follicle Stimulating Hormone Receptor Signaling

#### 9:30 a.m. / Arundhati Gore

 $\label{lem:communication} \mbox{Co-immunoprecipitation of the human follitropin hormone receptor (hFSHR) with caveolin}$ 

#### 9:50 a.m. / Grace Nicol

Investigating the Role of Beta-Arrestin in Ovarian Hyperstimulation Syndrome

#### **ISEC 124**

### **Chemistry 1**

MODERATOR: LAURIE TYLER

#### 8:30 a.m. / Emily Stein

Investigating the Anticancer Properties of Schiff-Base Containing Copper Complexes: Synthesis, Characterization, and Biological Activity

#### 8:50 a.m. / Lillian Woods

Structure-Function Studies of Substituted Azoles for Metal Ion Detection in Water: Synthesis, Characterization, and Fluorescence Analysis

#### 9:10 a.m. / Margaret Turck

Photodegradation of Octyldimethyl para-aminobenzoic Acid (OD-PABA or Padimate O) and its Photoproduct Formation

#### 9:30 a.m. / Rubab Raza

Synthesis of Dual CCR5/CXCR4 Inhibitors for HIV Infection

### 9:50 a.m. / Lani Waggoner

Application of Circular Dichroism Spectrophotometry to Observe Structural Changes in RNA Induced by Binding Interactions

#### **WOLD 225**

#### **Aerogels**

MODERATOR: MARY CARROLL

#### 8:30 a.m. / Ella Brinkley

Reference materials for use in the evaluation of catalytic aerogels

#### 8:50 a.m. / Christopher Tsouvalas

Quantifying Aerogel Catalyst Usage in Catalytic Converters and Modification of the Union Catalytic Aerogel Testbed

#### 9:10 a.m. / Yenely Payano Lora

Aerogels as Adsorbents: Mitigating the Environmental Impact of Oil Spills

8:30 a.m. - 10:10 a.m. / Concurrent Oral Presentations

### 9:30 a.m. / Meredith Blinn and Shane Fuhrey

Developing Durable, Aerogel-Based, Superhydrophobic Surfaces for the Purpose of Drag Reduction

### 9:50 a.m. / Finlay MacDonald

Modeling Aerogels: Structure and Flow Properties

### YULMAN THEATER 101 (STUDIO A)

### **Theater**

MODERATOR: ANDREW MANNION

### 9:30 a.m. / Thomas Raimo

35mm: An Overview of Scenic Design, Set Construction and Performance







#### 10:20 a.m. - 12:00 p.m. / Concurrent Oral Presentations

#### KARP 001

### **Health Disparities and Wellbeing** among Diverse Populations

MODERATOR: MARLOW GUERRANT

#### 10:20 a.m. / Caroline Kelly

The Psychological Impacts of Hormonal Birth Control Methods

#### 10:40 a.m. / Sriya Baru

Psychological Wellbeing of Hemodialysis Patients: Findings from a Clinic-Based Pilot Study

#### 11:00 a.m. / Elizabeth Bentsianov

Psychological Wellbeing of Hemodialysis Patients: Lessons Learned & Limitations to Survey-based Research for Chronically Ill Populations

#### 11:20 a.m. / Snigdha Narayandas

Generational Transmission of Mental Health Stigma among Asian Americans

#### 11:40 a.m. / Sreehitha Manga

Understanding Developmental Delays In Children and Navigating The Journey of Parental Support

#### KARP 002

#### France and Beyond

MODERATOR: CHEIKH NDIAYE

### 10:20 a.m. / Lydia Singer

Aging: A Study of Cultural Models in France and The **United States** 

#### 10:40 a.m. / Stephen Wong

How Fairy Tales Can be Used to Analyze Culture and Society

### 11:00 a.m. / Celeste Beaudoin

Unveiling the Shadows: A Comprehensive Analysis of Sports Corruption and Mitigation

#### KARP 006

#### **Klemm Fellows 1**

MODERATOR: MARK DALLAS 10:20 a.m. / Mahek Desai

Klemm Fellowship in Fiji: Learning From the Little Ones

#### 10:40 a.m. / Johanna DiCerbo

Researchers of the Reef: Shark Conservation Efforts in Fiji

#### 11:00 a.m. / Sophia Douglas

Human Rights Activism in Argentina

#### 11:20 a.m. / Ryosuke Hashimoto

The Life and Legacy of Mama Elinuru: An Organic Farmer from Arusha, Tanzania

#### 11:40 a.m. / Isabella Jenney

When Life Begins: Midwifery in Cusco, Peru

#### 12:00 p.m. / Grace Tang

Klemm Fellowship: A Journey into Mongolian Medicine and Culture

#### **KARP 103**

### **History 2**

MODERATOR: ELENA MCGRATH

#### 10:20 a.m. / Alexander Morin

Minerals and Misery: South African Mineworkers and Political Struggle

#### 10:40 a.m. / Michael Stanco

Redefining a Narrative: A Nuanced Understanding of the Effects of Colonialism on Religion in West Africa

#### 11:00 a.m. / Alex Strait

Harry Hopkins: Social Worker, New Dealer, Pragmatist

#### **KARP 105**

### Researching the Global Ulysses

MODERATOR: KAITLIN STAUDT

#### 10:20 a.m. / Amelia Keese

Songs and the Nation: Music in the Modernities of Ulysses, Berlin Alexanderplatz, and A Mind at Peace

#### 10:40 a.m. / Benjamin Stern

Ivy Day in the Archive Room

#### 11:00 a.m. / Annabella Schiavi

Language As a Means of Infantilization in James Joyce's "Nausicaa"

#### 11:20 a.m. / Sarah Murphy

Ulysses and Colonialism: Mapping Colonial Networks through Beauty Trends in Ulysses

#### 10:20 a.m. - 12:00 p.m. / Concurrent Oral Presentations

#### LIPPMAN 012

### The Power of Reflection: Stories of U

MODERATOR: JOSEPH JOHNSON

10:20 a.m. / Jonathan Rust

Mind Over Matter: The Mental Game of Student-Athletes

10:40 a.m. / Viola Li

Story Presentation: Sunny Side Up

11:00 a.m. / MacKenzie Black

I Fell Down, But I Survived

#### LIPPMAN 014

#### **Women in Ancient Rome**

MODERATOR: STACIE RAUCCI

10:20 a.m. / Mariel Silpe

Caesia: A Nanny in Ancient Rome

10:40 a.m. / Allison Shelley

Tyche: A Roman Prostitute

11:00 a.m. / Claire Braaten

Hapate: A Stenographer in Ancient Rome

11:20 a.m. / Clare Reilly

A Flute Player in Ancient Rome

#### LIPPMAN 016

#### **Economics 3**

MODERATOR: STEPHEN SCHMIDT

10:20 a.m. / Benjamin Tichner

How Does the Legalization of Recreational Marijuana Affect Alcohol Consumption in the United States?

10:40 a.m. / Leslie Quijada

First in The Race, Last to Win: Investigating the Role of Parents' Education on First-Generation and Continuing-Generation College Student's Financial Literacy

11:00 a.m. / Sutirth Mannikeri

Rested Resident Physicians: The effects of duty-hour reforms on all-cause-in-hospital mortality

#### LIPPMAN 017

### **Sovereignty and Security: The West Wrestles with Difficult Challenges**

MODERATOR: ROBERT HISPLOPE

#### 10:20 a.m. / James O'Haire

Where Did it All Go Wrong? An Analysis of Russian Relations with Western Nations

#### 10:40 a.m. / Brooke Fleming

Secure and Control: The Illegitimacy of the European Union's Immigration and Border Control Policies during the Migration Crisis

#### LIPPMAN 101

### **Environmental Studies 1**

MODERATOR: ANDREA FOROUGHI

#### 10:20 a.m. / Zachary Davis

Biophilic Design: Using International Inspiration to Increase Sustainable Building Practices in the United States

#### 10:40 a.m. / Genevieve Goldstein

Water Insecurity in The Navajo Nation: Analyzing the Failure to Implement Policy on Water Rights at the State and Federal Level

#### 11:00 a.m. / Peter Kip

The Integration of Indigenous Principles into Environmental Legislation

#### 11:20 a.m. / Thomas Schrader

The Search for a Sustainable Agricultural Alternative: Lessons in Conservation and Land Management from Indigenous Bolivians in Amazonia

#### **ISEC 118**

### Biomedical Engineering and Imaging

MODERATOR: SHANE COTTER

#### 10:20 a.m. / Nicole Turpin

Smoke Evacuation Attachment for Electrocautery Pens

#### 10:40 a.m. / Jack Anderson and Ashley Pontillo

Analysis of the Effects of Osteoarthritis on the Thumb CMC Joint using Surface Electromyography

#### 11:00 a.m. / Nicholas Gellrich

Creating 3D Models from 2D Ultrasound Imaging

#### 10:20 a.m. - 12:00 p.m. / Concurrent Oral Presentations

#### **ISEC 120**

### **Obesity: Science and Medicine**

MODERATOR: BRIAN COHEN 10:20 a.m. / Allison Smith

Investigating the Association of Cortisol Hypersensitivity

#### 10:40 a.m. / Kaitlyn Ehmann

Investigating the Role of Genetics in the Successful Outcome of Bariatric Surgery

Single Nucleotide Polymorphisms with Metabolic Syndrome

#### 11:00 a.m. / Ryan Davis

Cost Analysis of Four Sleeve Gastrectomy Techniques: A Single Institution Retrospective Study

#### **ISEC 124**

#### **Biochemistry**

MODERATOR: KRISTIN FOX

### 10:20 a.m. / Katelyn Hirnak

Investigation of Autoproteolytic Cleavage in Schizophyllum commune Type Ia Metacaspases

#### 10:40 a.m. / Morgan Truesdell

Investigating the Calcium Binding Mechanism of Schizophyllum commune Type Ia Metacaspases Using Circular Dichroism Spectroscopy

#### 11:00 a.m. / Devin Batheja and Kyra Lum

Robust and direct synthetic method for potential S. commune metacaspase inhibitors

#### 11:20 a.m. / Christian Carrigan

Chronic Blood-Brain Barrier Damage Following a Traumatic Brain Injury: A Role for the Inflammasome?

#### **WOLD 128**

#### Geosciences

MODERATOR: ANOUK VERHEYDEN-GILLIKIN

#### 10:20 a.m. / Stella Rowley

Northern Red Sea Coral Reveals Multidecadal Variability in Surface Water Conditions Linked to North Atlantic Climate Since 1743

#### 10:40 a.m. / Nikola Newcomer

Unearthing the Impact: An Analysis of El Nino Flood Events Recorded in Andean Lake Cores and Their Socioeconomic Implications

#### 11:00 a.m. / Katie Boermeester

Macroalgae as a Proxy for Organic Pollution along the Coast of Japan

#### 11:20 a.m. / Louis Aquino

Nitrogen Isotopes of Maize & Pumpkin from a Nineteenth-Century New York Farmstead: Insights Into Fertilization & Nutrient Pollution

#### 11:40 a.m. / Devin Snyder

Characterizing Rice Crop Hydrologic History and Implications for Arsenic Uptake Through the Use of Stable Isotopes and Remote Sensing

#### **WOLD 225**

### Sigma Xi Nominees

MODERATOR: TIMOTHY BARNUM

#### 10:20 a.m. / Rachel Bryan

Olivine Diffusion Chronometry Reveals Rapid Ascent Rates and Complex Eruptive History of Rangitoto, Auckland Volcanic Field, New Zealand

#### 10:40 a.m. / Allison Malatesta

Analyzing Street Tree Diversity Over Discriminatory Districts in Schenectady

#### 11:00 a.m. / Anyerys Diaz

Breaking symmetry during initiation of the spiral intestine in Leucoraja erinacea

#### **EMERSON AUDITORIUM**

#### Music

MODERATOR: JENNIFER MATSUE

#### 10:20 a.m. / Jackson Janney

Classical Composition: A Musical Journey

#### 10:40 a.m. / Rafael Murillo

The Design and Construction of The Guitoma

#### 11:00 a.m. / Mark D'Alessandro

DIY or Die?: Uncovering Authenticity and Inclusivity in The Capital Region DIY Music Scene

#### 11:20 a.m. / Yutong Wu

Xiaoheluogu

## **TEMPLETON INSTITUTE SHOWCASE**

11:30 a.m. - 12:30 p.m. / Debate on Artificial Intelligence

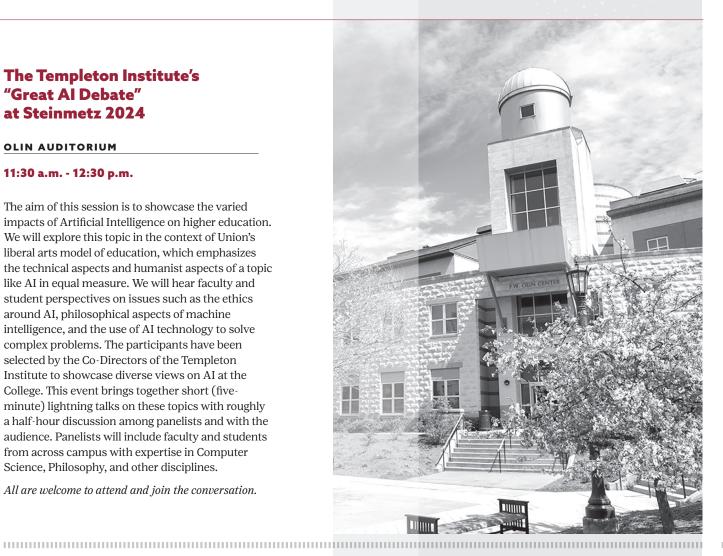
### The Templeton Institute's "Great Al Debate" at Steinmetz 2024

#### **OLIN AUDITORIUM**

11:30 a.m. - 12:30 p.m.

The aim of this session is to showcase the varied impacts of Artificial Intelligence on higher education. We will explore this topic in the context of Union's liberal arts model of education, which emphasizes the technical aspects and humanist aspects of a topic like AI in equal measure. We will hear faculty and student perspectives on issues such as the ethics around AI, philosophical aspects of machine intelligence, and the use of AI technology to solve complex problems. The participants have been selected by the Co-Directors of the Templeton Institute to showcase diverse views on AI at the College. This event brings together short (fiveminute) lightning talks on these topics with roughly a half-hour discussion among panelists and with the audience. Panelists will include faculty and students from across campus with expertise in Computer Science, Philosophy, and other disciplines.

All are welcome to attend and join the conversation.





**TEMPLETON** INSTITUTE



#### 12:30 p.m. - 1:50 p.m. / Posters and Team Displays

### **Team Displays**

#### WOLD

**Union College Robotics Crew Micromouse Demos Baja SAE Team Display SAE Aero Micro Team Display** 

#### **WOLD ATRIUM**

### **Posters: Natural Sciences and Engineering 1**

#### **Jake Karp**

Expression and Purification of a Type II Metacaspase from S. Commune

#### Vaishali Srinivasan

Analyzing Methods to Determine Binding Between Small Molecules and the G-Quadruplex Structure in Precursor MicroRNA

Calibration of the Fluorescence Signal for Metacaspase **Activity Assays** 

#### **Aarón Carretero Benites**

Confocal Benchmarking of Human Mesenchymal Stromal Cells in 3-Dimensional Hydrogels

#### Victoria Avon

Muscle Differentiation and Vilification in the Skate Spiral Intestine

#### Khadija Amir

Understanding the role of sexual selection in speciation by studying the secondary sexual traits of the Drosophila Athabasca species

#### Talia Marc

Examining Left-sided Signaling in the Spiral Intestine of the little Skate

#### **David Dombrovsky**

An Analysis of Trends and Disparities in Glaucoma Prevalence and Disability Impact in The United States

#### **Chau Tran Minh**

Regulating Interparticle Gap Distances in Peptoid Nanosheets by Modifying Gold Nanoparticle Surface Ligands

#### **Raquel Duenas**

Assembly and properties of peptoid nanosheets formed with 10-nm gold nanoparticles functionalized with either polystyrene or octadecanethiol ligands

#### Nora Kliczewski

Valorization of waste solvents and reagents from the chemical recycling of postconsumer plastics: A step towards a green circular economy

#### **Shams Qureshi**

Functionalized Gold Nanoparticle (AuNP) embedded peptoid nanosheets: Tuning the packing density of nanosheets by altering ligand length via exchange

#### Caroline Monaco

Sorption of Per- and Polyfluoroalkyl Substances (PFAS) to Organic Material as an Environmental Remediation Strategy

#### C'lannye James

Incorporating Octanethiol-functionalized Gold Nanoparticles into the Interior of Bilayer Peptoid Nanosheets

#### **Nathan Riordon**

Chirped-Pulse Fourier Transform Microwave Spectrometry: Assembly and Application

#### **Shayna Kantor**

Analyzing the Formation of Plasmonic Peptoid Nanosheets using a Langmuir Trough

#### Linnea Tix

Perfluorooctanesulfonic acid (PFOS) Uptake into Wheatgrass Microgreens

#### **Anthony Condemi**

New Catalytic Approaches for Wittig Synthesis with Tertiary Amides

#### **Jules Squissato**

Synthesis of Disubstituted Thioureas for use in lowtemperature Preparation of Monodisperse ZnS Quantum Dots

#### 12:30 p.m. - 1:50 p.m. / Posters and Team Displays

#### Rhianna R. Candido

A demonstrating application of a single-step chemical recycling approach of postconsumer plastic waste into high quality products

#### **Alexandra Nicolaus**

Design of a Safer Trocar for use in Primary Port Insertion in Laparoscopic Surgery

#### **Katherine Robinson**

hMSC Viability and Immunomodulatory Factor Production between Polymer Batches and Varying Weight Percentages

#### **Nicholas DeBaise**

TinyML to Predict Occupancy Levels Using Microcontrollers

#### **Timothy McGarry**

The Effect of Tanning Oil on Normal Dermal Fibroblast Viability

#### **Joseph Cirksey**

PV Module Power Output Forecasting

#### **Taryn LaFontaine**

The Effect of Ovarian Hormone Concentrations on the Gastrocnemius and Soleus Muscle Activation

#### **Vasileios Megas**

Application of 1D Non-autonomous Chaotic System Synchronization for Bistatic Radar System

#### **Maia Carty**

Green Roofs Selection Guide

#### **Andew Bassuk**

Urban Farming: A solution to agricultural problems?

#### Sarah Unger

Understanding the Peruvian Andean paleoclimate through stable isotope analysis of speleothems

#### **Andrea Kaufer**

A Tale of Two Floods: Comparing peak discharges of the 1918 and 2022 Northern Yellowstone National Park Floods

Water Quality of the Kromme Kill and Collins Lake System, Scotia and Glenville, New York: Impairment Due to Septic Failure and Salinization

#### **Alexander Forsyth**

Karst hydrological control on oxygen isotope variability of cave drip water: a regional cave monitoring study from the Peruvian Andes

#### **Maxwell Rhodes**

Design and Optimization of a S.A.E. Baja Suspension

#### Jeffrey Kent

Baja Racing 2024 Roll Cage Design and Analysis

#### ISEC (LOWER LEVEL)

### **Posters: Natural Sciences and Engineering 2**

#### Ashlesha Bhagat

Grouping the Selective Way—Context Sensitive Selective Model

Design of a Solar Water Pasteurization System

#### John Quaintance

Simulation of Heat Transfer in Catalytic Converters to Mitigate Modern Automobile Pollution

#### **Tristen Kemp**

Fabrication of Phosphorescent Aerogels

#### Jesse Jerome-Wrenn

Bio-Inspired Jumping Robot

#### **Anthony Ruzzo**

"Improved" Cookstoves Research at Union

#### **Antonio Griffin**

Design and Manufacturing of Desktop Case with Optimal Cooling Strategy

#### **Zachary Kalb**

A Window Into a Greener Future

#### **Aidan Donnelly**

Effect of Plasma Treatment on the Structure of Graphene Oxide Membranes and its Potential Water Treatment Application

#### 12:30 p.m. - 1:50 p.m. / Posters and Team Displays

#### **Rafael Murillo**

The Design and Construction of The Guitoma

#### **Matthew Epstein**

Understanding the Auxetic Structure of Graphene Oxide

#### **Dylan Robichaud**

Lingo Land—Language Practicing Chat Website

#### Olivia Logan

Ion Beam Analysis of Zircon With Application to Earth Science

#### **Elizabeth-Veronica Crowley**

Protoplanetary Disk Simulations with the Hall Effect

#### **Gavin Wright**

Photometric Analyses for Two Koronis Family Asteroids

#### Kali Jauregui Morris

Coarse Grained Molecular Simulations of DNA Condensation in the Presence of Cobalt Hexamine

#### **Adrian Ring**

Phase Relations of Potassium Chloride Solutions With Relevance to Europa

#### **Ann Zhang**

Compositional Analysis of Phage phi29 Capsid and its Effect on DNA Packaging

#### **Alexia Goldenberg**

Verification of a TESS Object of Interest (TOI) Exoplanet Candidate with Remote Telescopic Observations

#### Niha Das

Analyzing the  $\pi+\pi-\pi^{\circ}\pi^{\circ}p$  Final State at GlueX

#### **Eduardo Castro**

Lightcurve and Period Insights for Koronis Family Asteroid (2092) Sumiana

#### **Jayson Bromberg**

Spin Density Matrix Elements for the  $\phi(1020)$  Meson at GlueX

#### Joshua Hiller

Development a GUI for Single Photon Experiments Using Type-I and Type-II Spontaneous Parametric Downconversion

#### **Hades Panlilio**

MotMaison: Educational Video Game Design for Language Learning

#### **Collin Harrington**

Improving Competition Chess Sets: Automatic Score Sheets

#### SCHAFFER LIBRARY

## Humanities, Social Sciences, and Health Sciences

#### **Allison Shelley**

Ovid's Ars Amatoria: Female Instruction and Construction in Augustan Rome

#### **Sophia Douglas**

Comparing Abortion Politics in the US and Mexico

#### **Stephen Barbelet**

Investigating Creativity: Influence of Emotional States on Divergent and Convergent Thinking

#### Qianying Zhu

Problem-Solving and Analogical Transfer

#### **Ava Hubert**

Assessing Student Use and Perceived Credibility of Artificial Intelligence Platforms

#### **Sean Laragy**

A Neuropsychological Systematic Review on Cognitive Processing Therapy: The Golden Standard for Post Traumatic Stress Disorder Intervention

#### **Ashley Dell'Oso**

Perceived Levels of Class at Elite Institutions

### 12:30 p.m. - 1:50 p.m. / Posters and Team Displays

#### **Mahek Desai**

Traditional Biomedical Model of Childbirth vs. Humanized Care: Epidemiology of Neonatal Birth Injury

#### **Allyson Bennett**

You: Pictures of Union Students, Athletes, and Leaders on Campus

#### **Ambrose Proctor**

Playing With Nature

#### **Cassidy Careccia**

Promoting Sustainable Energy Futures: Impact of Boardroom Diversity on Renewable Energy Use

#### **Dimitrios Binopoulos**

An Empirical Analysis of Executive Compensation and Firm Performance in Greece

#### **Grace Beazoglou**

Greece's Financial Crisis of 2015

#### **Calvin Schneider**

The Effect of the 2016 NFL Anthem Protests on Game Attendance and Ticket Price

#### **Dionis Polanco**

Assessing the Impact of Economic Diversity and Education On Student Achievement

#### Liam McGovern

Analyzing the Impacts of Climate Change on U.S. Agricultural Productivity: A Study of Agricultural Exports in the 21st Century

#### Lily van Baaren

The Hidden Medieval at the Metropolitan Museum of Art

#### **Mridula Shanker**

Cultural Competence and Health Literacy: Bridging Healthcare Disparities in Schenectady, New York





#### 1:50 p.m. - 3:30 p.m. / Concurrent Oral Presentations

#### **KARP 001**

### **Psychology**

MODERATOR: JOSHUA HART AND CAMERON KAY

#### 1:50 p.m. / Kayla Shapiro

An Examination of Effective Motivational Techniques among Patients with Major Depressive Disorder and a Guide to Treatment

#### 2:10 p.m. / Ella Tycz

The Effect of Chronic Illness on Self-esteem as a Function of Perceived Social Support

#### 2:30 p.m. / lan Gray

The Effects of Bogus Feedback on Self-Efficacy in Grandiose and Vulnerable Narcissism

### 2:50 p.m. / Tam Vu Chi

Stitching Social Stigmas: The Threads Between Fashion Advertising and Modern Racism

#### 3:10 p.m. / Lucas Cohen

Unveiling the Digital Canvas: Analyzing the Impact of Social Media Marketing through a Data Analytics Lens

#### KARP 002

# Crossing Borders and Boundaries: France and Beyond

MODERATOR: CHEIKH NDIAYE

### 1:50 p.m. / Ebyan Abshir

Uncovering Truth and Memory: Analyzing South Africa's Truth and Reconciliation Commission and its Potential Inspiration for the US Major

#### 2:10 p.m. / Beatrice Ogden

An Exploration of Emigration to France among Sub-Saharan Women and How to Combat the Problems they Face

#### 2:30 p.m. / Thomas Schrader

Men's Rights Activism in France: Broadening the Picture of Gender Equality

#### **KARP 105**

### English Honors Theses 1. Human Connections and Confrontations: Creative Theses in English

MODERATOR: PATRICIA WAREH

#### 1:50 p.m. / Laura Matthew

Helena-Sophie

#### 2:10 p.m. / Kevin Ha

Becoming a Supernova at the End of the World

#### 2:30 p.m. / Jonah Levin

Expedition: Nisi Futurum by Jonah Levin

#### LIPPMAN 012

### Sociology 2

MODERATOR: DAVID COTTER

#### 1:50 p.m. / Grace Tang

Central Role of Traditional Mongolian Medicine in Mongolia's Current Healthcare System

#### 2:10 p.m. / Jason D'Amico

Comparing the Campus Characteristics Contributing to Sexual Assault Reporting Rates and the Efficacy of Data Collection Strategies at Union College and Beyond

### 2:30 p.m. / Eastwood Yeboah

Increasing Mental Healthcare Accessibility Within Marginalized Communities

#### 2:50 p.m. / Glory Moncion Allen

The Intersectional Lens: Exploring First-Generation Experiences and Its Impact on Sense of Belonging and Academic Success in Predominantly White Institutions

#### 3:10 p.m. / Charles McVicker

Becoming DhBOt (real people) at GWY d⊖SGT. (the Cherokee Language Immersion School)

#### 1:50 p.m. - 3:30 p.m. / Concurrent Oral Presentations

#### LIPPMAN 014

#### Classics 1

MODERATOR: STACIE RAUCCI

#### 1:50 p.m. / Oliver Taylor

Classifying Pottery Fragments by Decorative Technique Using a Convolutional Neural Network

#### 2:10 p.m. / Nicole Marcin-Van Meter

Literary and Visual Depictions of the Egyptian Goddess Isis in the Hellenistic and Roman Imperial Periods

#### 2:30 p.m. / Christopher Galiano

The Ballad of Hesiod: Putting the Author into the Myth

#### 2:50 p.m. / William Grimwood

The Parthenon through Time: Cost and Value

#### 3:10 p.m. / James Hogan

The Knight And The Legionnaire: Heavy Armor In Use a Millennium apart

#### LIPPMAN 017

### **Political Science 2**

MODERATOR: GUILLERMINA SERI

#### 1:50 p.m. / Gregory Melchior-Fisher

The Capital of Democracy: A Comprehensive Case for D.C Statehood

#### 2:10 p.m. / Owen Harrison

The Promise of Living Well: Buen Vivir as a Global Alternative to Neoliberal Development and Extractive Capitalism

#### 2:30 p.m. / Elaine Fryer

Improving Public Health Through Litigation: Evaluating the National Opioid Settlements and Their Potential Impact on Abating the Opioid Epidemic

#### 2:50 p.m. / Lucy Mastrianni

From Beliefs to Ballots: Environmental Opinions' Impact on Voting Behaviors in the United States

#### 3:10 p.m. / Aurore Lambert

The Social, Economic, and Political Determinants of Health: The Role of Political Factors on Racial Health Inequality During the COVID-19 Pandemic

#### LIPPMAN 101

#### **Environmental Studies 2**

MODERATOR: ASHRAF GHALY

#### 1:50 p.m. / Grace Parini

How Indigenous Knowledge of Forests and Landscape Benefit the Earth and Humanity: Policy Change Can Allow for Greater Native Involvement in Management of Federal Lands Considering Fire as a Tool

#### 2:10 p.m. / Audrey Larson

Rising Tides and Vulnerability Disparities: A Comparative **Exploratory Analysis** 

#### 2:30 p.m. / Sebastian Graber-Adamsons

Understanding the Effects of Changes in Airborne Particulate Matter Concentrations on Human Health in the USA

#### **ISEC 118**

### **Physics and Computer Science**

MODERATOR: MATTHEW ANDERSON

#### 1:50 p.m. / Manav Bilakhia

Improving the Hydra Classifier for Data Quality Monitoring at GlueX

#### 2:10 p.m. / Ryan Petrauskas

New Synodic Rotation Periods for Koronis Family Asteroids (2470) Agematsu and (3856) Lutskij

#### 2:30 p.m. / Khai Dong

A Survey into Lower Bounding Cohn & Umans Matrix Multiplication

#### 1:50 p.m. - 3:30 p.m. / Concurrent Oral Presentations

#### **ISEC 120**

### **Biology 1**

MODERATOR: STEPHEN HORTON

#### 1:50 p.m. / Veronica Turek

Assessing Mycelial Growth Potential: CRISPR-Mediated Double Knockout of Ethylene Receptors ETR1 and ETR2 in Ganoderma sp.

#### 2:10 p.m. / Ethan Romero

Using CRISPR to edit the gene LFC1 in the mushroom-producing fungus Ganoderma

#### 2:30 p.m. / Sivagouzia Sivarajah

Assessing Fungal Response to Stressors after Tardigrade Gene Transformation

#### **ISEC 124**

### **Lyme Disease Vaccines**

MODERATOR: STEPHANIE CURLEY

#### 1:50 p.m. / David Krimer

Outer Membrane Vesicles-Based Vaccine Platform Against Lyme Disease

#### 2:10 p.m. / Yasmin Torres

Surface exposed antigen OspA as a biological nanoparticle for Lyme disease vaccine delivery

#### 2:30 p.m. / Bennett Beaulieu

Investigation of Recombinant Protein Lyme Disease Vaccine Using OMVs

#### 2:50 p.m. / Chau Tran Minh

Crosslinking Outer Membrane Vesicles of Gram-negative bacteria for developing Lyme Disease Vaccine

#### **WOLD 225**

#### **Nanomaterials**

MODERATOR: YIJING STEHLE

#### 1:50 p.m. / Braman Cronin

Applications and Optimization of Laser Reduced Graphene Oxide Aerosol Sensors

#### 2:10 p.m. / Elias Valore-Caplan

Effects of Fabrication Environment Humidity on Graphene Oxide Membranes

#### 2:30 p.m. / William Zimmer

Synthesis, Purification, and Heavy Metal Fluorescence Quenching of ZnS Quantum Dot Derivative Systems

#### 2:50 p.m. / Nolan Randall

Thin Film Formulation of an OMV Vaccine





### **SESSION V**

#### 3:40 p.m. - 5:20 p.m. / Concurrent Oral Presentations

#### KARP 001

#### **Health Professions**

MODERATOR: JOANNE FITZGERALD

#### 3:40 p.m. / Alexander Ottavio

Impact of Increased Hospital Utilization During COVID-19 Pandemic on Financial and Operational Pressures for Hospitals and Health Systems

#### 4:00 p.m. / Viraj Brahmbhatt

Assessing ChatGPT as a patient education tool for Diabetes Mellitus patients.

#### 4:20 p.m. / Sathvik Narayana

Quantifying Heterogeneity in Phase III Oncology Clinical Trials

#### 4:40 p.m. / Caroline Stanton

Assessing the Efficacy of Government-Funded Public Health Campaigns: A Comparative Study of Lung and **Breast Cancer Awareness Initiatives** 

#### 5:00 p.m. / Jenna Meshcon

Carrier Status & Antibiotic Susceptibility of Staphylococcus aureus among Healthcare and Non-Healthcare Workers

#### KARP 002

### **Neuroscience**

MODERATOR: CAY ANDERSON-HANLEY

#### 3:40 p.m. / Clara LaCorte

Attention Intervention: Neuro-exergaming for ADHD with iPACES in a college sample

### 4:00 p.m. / Mya Delesdernier

Executive Function: Neuro-exergaming for ADHD with iPACES in a college sample

#### 4:20 p.m. / Tessa Thomas

Cognition and Per- and Polyfluoroalkyl Substances (PFAS): Older Adult sample from the NHINES trial

#### 4:40 p.m. / Ummi Coats

The Role of Valence and Speaker Identity in False Hearing

#### 5:00 p.m. / Molly Rusgrove

Assessing the Immediate Effect of Transcutaneous Auricular Vagus Nerve Stimulation (taVNS) on the P300 **Event-Related Potential Across Modalities** 

#### KARP 006

#### **Klemm Fellows 2**

MODERATOR: MARK DALLAS

#### 3:40 p.m. / Shivani Modi

A Reality Check: Case Studies of Cambodian Healthcare

#### 4:00 p.m. / Margaret Peterjohn

Klemm Fellowship: Wildlife Conservation in Patagonia, Argentina

#### 4:20 p.m. / Rubab Raza

Beyond Borders: Exploring Nepal's Healthcare System

#### 4:40 p.m. / Sivagouzia Sivarajah

A Glance into Sri Lankan Healthcare: Inside the Homes and Hospitals of Colombo

#### **KARP 105**

### **English Honors Theses 2. Human Debates and Transformations: Critical Theses in English**

MODERATOR: PATRICIA WAREH

#### 3:40 p.m. / Sophie Ruhl

Rethinking Athletics Through a Feminist Lens

#### 4:00 p.m. / Noa Shevchuk

Mary Shelley and the Vitality Debate

#### 4:20 p.m. / Tessa Fountain

Ovid and Shakespeare: Allusion to Roman Myth in a Midsummer Night's Dream and Romeo and Juliet

### **SESSION V**

#### 3:40 p.m. - 5:20 p.m. / Concurrent Oral Presentations

#### LIPPMAN 017

#### Political Science 3

MODERATOR: SALIL BENEGAL

### 3:40 p.m. / Ryan Cudworth

Movement and Sovereignty: The Separation Wall and the Denial of Palestinian Statehood

#### 4:00 p.m. / Kyle Patlove

Return to Sender: The Rise and Fall of the Right to Claim Asylum in the United States

#### 4:20 p.m. / Jeremy Schmelkin

Religiosity and Politics: The Evangelical, Mormon, Jewish and Quaker Theological Stance on Reproductive Rights, LGBTQIA+ Rights and Racial Relations

#### 4:40 p.m. / Ayah Osman

Discovering And Applying Black Self- Concept Theory

#### **ISEC 120**

### **Biology 2**

MODERATOR: JEFFREY CORBIN

#### 3:40 p.m. / Viola Li

Pheromones' Influence on Speciation in the athabasca Complex

#### 4:00 p.m. / Khai Ton

Proteomic Discovery Comparison Between CLN3 and NPC1

#### 4:20 p.m. / Nima Darafshi

Unraveling the Mystery of Prey Tracking in Bearded Dragons: A Study in Smooth Pursuit

#### 4:40 p.m. / Ryan Nowak

Assessing Efforts to Control Giant Hogweed in New York State

### 5:00 p.m. / Johanna DiCerbo

The Effects of Robinia pseudoacacia Removal on Soil Nutrient Concentrations in the Albany Pine Bush

#### **WOLD 225**

### **Mechanical Engineering**

MODERATOR: WILLIAM KEAT 3:40 p.m. / Brinton Roberts

Design and Testing of an Unmanned Hydrofoil Prototype

#### 4:00 p.m. / Bailey McAtee

Volumetric Flow Measurements Surrounding Sheltered Finite Circular Cylinders with Varying Spanwise and Streamwise Offsets

#### 4:20 p.m. / Mohamed Kaid

3D Turbulent Flow Measurements Over Rigid and Flexible Isolated Roughness Elements

#### 4:40 p.m. / Minh Nguyen

Effects of Multiple Interacting Cracks on Rates of Fatigue Crack Growth

#### 5:00 p.m. / Aidan Parente

Effects of Local Convection of Flow Over Periodic Roughness

#### 5:20 p.m. / Zachary Panlilio

Turbulent Boundary Layer Over Cylindrical Roughness: 2D PIV Measurements







## THE 2024 LOTHRIDGE FESTIVAL OF DANCE

Friday, May 10 / 4:00 p.m. / Nott Memorial

FACULTY SPONSOR / FESTIVAL DIRECTOR: LAURIE ZABELE CAWLEY, ASSISTANT DIRECTOR OF DANCE

#### Signatories (Excerpt)

Choreography: Megan Flynn, in collaboration with the dancers

#### Music: Weight of a Nation by Danny Mulhern

Performers: Mel De La Cruz, Sarah DeRosa, Livi Gwinnett, Emily Tobar

#### **Invitation (Excerpt)**

Choreography: Laurie Zabele Cawley

#### Music: Fugata by Astor Piazzolla, Katheryn Stott & Yo-Yo Ma

*Performers:* Sarah Dames, Sarah DeRosa, Ava DuBoff, Livi Gwinnett, Grace Newcombe, Alexandra Nicolaus, Lydia Singer, Sage Stinson

#### **Whispered Flight**

Choreography: Laurie Zabele Cawley

#### Music: String Quartet No. 3 "Mishima": VI by Philip Glass

Dancers: Sarah Dames, Alexandra Nicolaus, Sage Stinson

#### **ÉCOUTEZ!**

Choreography: Eva Crowley

#### Music: Amour, Haine, et Danger by Angèle

*Performers:* Rachel Bryan, Maggie Buckley, Eva Crowley, Grace Newcombe, Thomas Raimo, Marielese Robillard, Abby Wilder

#### **KAU Crew: Steinmetz 2024 K-Pop Medley**

Choreography: Pheary Kang, Vaishali Srinivasan, Aydana Djoroeva, Ashlesha Bhagat, Hades Panlilio (modified original choreography by Team Same Jidae, C.A.P.T Terry, Enhypen Ni-ki, Kany, and Sienna Lalau)

## Music: Cheers by Seventeen, Untie by Viviz, Bite Me by Enhypen, ON by BTS

*Performers:* Nishtha Agarwal, Ashlesha Bhagat, Mahek Desai, Aydana Djoroeva, Paige Fox, Pheary Kang, Hades Panlilio, Vaishali Srinivasan

#### **Afrobeat Battle: South vs West**

Choreography: Ishika Chourasia, Vivian Escobar, Veronah Najjuuko, Makeda Wallace

Music: Kupe Dance by A Star, Nesesari by Kizz Daniel and Philkeyz, Plan 2 by Major keys, Yuppe and Ceehle, Funk 55 by Shakes & Les, DBN Gogo, Zee Nxumalo Ft. Ceeka RSA and Chley, Ta Ta Ta by Bayanni

Performers: Najma Abdi, Dulce Barrios Lopez, Ishika Chourasia, Vivian Escobar, Veronica Lopez, Wellington Matos, Keshawn Mcclarence, Jennifer Mendes, Veronah Najjuuko, Alicia Rose, Sofia Steele

#### 3 in the Morning

Choreography: Grace Newcombe

#### Music: I Lived by OneRepublic

Performers: Eva Crowley, Mel De La Cruz, Grace Newcombe

#### **Dance Team**

Choreography: Sofia Cresta and Lydia Singer

#### Music: Disco Inferno by The Trammps

Performers: Maya Acampora, Faith Burroughs, Maia Carty, Sofia Cresta, Sarah Dames, Paige Fox, Hannah Kimball, Caitlin Lesage, Alexandra Nicolaus, Lizzy Paykuss, Lydia Singer, Anabel Sollinger, Anna Zusi

#### **Up On Top Of The World**

Choreography: Eva Crowley

#### Music: Mission To Moscow by Benny Goodman

Performers: Eva Crowley and Grace Newcombe

#### Natyashastra: The Spectacle of Art

Choreography: by Vaishali Srinivasan

#### Music: Mix by Vaishali Srinivasa

Performers: Sriya Baru, Sienna Chambial, Sreehitha Manga, Snigdha Narayandas, Vaishali Srinivasan & Sujay Vundavalli



"It's not merely a showcase of skill, but a testament to the power of dance to transcend barriers and forge bonds, enriching the fabric of our campus community."

- Laurie Zabele Cawley, Assistant Director of Dance

"The Nott is such an incredible venue to experience live dance performance because the energy between the audience and performers fills the entire building. Steinmetz is truly a celebration of the diversity of dance offerings at Union and our community of artist-scholars!"

– Megan Flynn, Director of Dance

#### Sabor Latino, Con Amor y Ritmo

Choreography: Dulce Barrios, Merari Rios Tovar, Melanie De la Cruz, Tony Gonzalez, Greg Chapkis

Music: 24 horas by 24 horas, Abusadora by Oro Solido, Dale Don Dale by Don Omar, Con Calma by Daddy Yankee, Snow, Where She Goes by Bad Bunny

Performers: Ariela de la Villa Irizarry, Aavasna Rupakheti, Dulce Barrios, Edgar Pastran, Emily Tobar, Jayce Jasso, Jennifer Mendez, Keidy Molina, Melanie de la Cruz, Merari Rios Tovar, Raquel Duenas, Veronica Lopez, Vivian Escobar

#### **Doom Song**

Choreography: Eva Crowley

Music: If You Love Me (Really Love Me) by Brenda Lee

Performers: Jolita Brettler and Brian Rusk

#### We Call the Shots

Choreography: Mahek Desai and Nishtha Agarwal

Music: Bitch Better Have my Money by Rihanna, Redrum by 21 Savage, Hey Mama by David Guetta, Bebe Rexha, Nicki Minaj

Performers: Abby Wilder, Ashlesha Bhagat, Aydana Djoroeva, Beatrice Ogden, Daniel Buletza, Karmen Gill, Mahek Desai, Maryam Tariq, Maya Mitra, Nathan Ramachandran, Nishtha Agarwal, Paige Fox, Pheary Kang, Rachel Bryan, Sienna Chambial, Suka Nyugen, Vaishali Srinivasan, Zayna Shaikh

### **Nineteen Years: Featuring** The Class Of 2024

Choreography: Eva Crowley

Music: Nowhere To Go But Up from the Mary Poppins **Returns Soundtrack** 

Performers: Rachel Bryan, Maia Carty, Eva Crowley, Sarah Dames, Mel De La Cruz, Ava DuBoff, Livi Gwinnett, Claire Knecht, Adriana Lawton, Grace Newcombe, Alexandra Nicolaus, Lydia Singer, Sage Stinson, Abby Wilder

#### **Bhangra: A Trip Back in Time**

Choreography: Vaishali Srinivasan, Nishtha Agarwal, Armaan Uppal

Music: Mix created by Vaishali Srinivasan. Arjan Vailly by Bhupinder Babbal, Obsessed by Riar Saab and Abhijay Sharma, White Brown Black by Karan Aujla, Avvy Sra, & Jaani, Gasolina by Daddy Yankee

Performers: Kshitij Agarwal, Nishtha Agarwal, Sriya Baru, Arjun Bhatnagar, Yaseen Bhatti, Juhi Bhuwalka, Sienna Chambial, Amarachi Ivoko, Sreehitha Manga, Snigdha Narayandas, Mayur Pabba, Trisha Panse, Priya Patel, Sohan Shah, Zayna Shaikh, Vaishali Srinivasan, Grace Tang, Atharv Tekurkar, Kavita Trivedi, Armaan Uppal, Sujay Vundavalli

#### The Dance Program would like to thank:

#### **OUR SPONSORS**

Mrs. Joan and Mr. David L. Henle William E. and Anna S. Lothridge 1879 Fund Charles D. Lothridge'44 / Edward Villella Fellowship

Dr. Gus Davis 1959 and Mrs. Sue Davis / The Stephanie C. Davis Dance Residency

The Gail and Carl George Annual Fund

#### **COLLABORATORS**

Megan Flynn / Gustave L. Davis '59 & Susan S. Davis Director of Dance

Drew Bodd / Technical Director

Brittney Belz / Costume Coordinator

Robin MacDuffie / Scene Shop Foreman

Claire Knecht / Stage Manager

Arts Administrators / Victoria Rotondi and Charlie Jones

Work Study / Eva Crowley, Mel De La Cruz, Grace Newcombe

## 2024 SPRING CONCERT: BON VOYAGE

Friday, May 10 / 8:00 p.m. / Memorial Chapel

**DIRECTOR: PROFESSOR JIN BYUN** 

Grace Yu Tong Wu, the class of 2025, will be performing as a soloist for the Union College and Community Orchestra. She will be playing Piano Concerto No. 20 in D minor, K. 466 by W.A. Mozart with Union College and Community orchestra.

Jackson Janney, the class of 2024, will be premiering two of his compositions, which include excerpts from the Requiem by Union College Choir.



### **Union College Chamber Singers**

Ubi caritas Kronstorfer Messe, WAB 146 I. Kyrie II. Sanctus III. Benedictus

IV. Agnus Dei Locis Iste

Besame Mucho

### **Union College Choir**

Two Excerpts from the Requiem Arirrang

## Union College and Community Orchestra

Grace Yu Tong Wu' 25, soloist

Piano Concerto No. 20 in D minor, K. 466 II. Romanze III. Rondo, Allegro assai

L'arlesienne suite no.2 I. Pastorale II. Intermezzo III. Minuet IV. Farandole

Union College Choir, Union College Chamber Singers and Union College Community Orchestra

The City from Sunrise Mass

M.J Tortta A Bruckner

A Bruckner Arr. by Mikhail Serkov

Jackson Jannay '24 Hyo-won Woo

W.A. Mozart

Georges Bizet

Ola Gjeilo

## 2024 STEINMETZ CONCERT

Saturday, May 11 / 11:00 a.m. / Fred L. Emerson Foundation Auditorium, Taylor Music Center

**DIRECTOR: PROFESSOR TIM OLSEN** 

### **Union College Jazz Ensemble** and Latin Percussion Workshop

Boogie Woogie Bugle Boy

Misty

Coming Home Song

Cómo Fué

Blues Walk

Simplicidad

Isn't This a Lovely Day

Ain't Got No Home

Vienna

Moanin'

Bobby Hebb

Raye Prince

Errol Garner

Bowers/Leet

Ernesto Duarte Brito

Clifford Brown

Tim Olsen

Irving Berlin

Clarence "Frogman" Henry

Billy Joel

Charles Mingus



### **Union College Jazz Ensemble**

#### CLARINET

Jonathan Deitchman '27

#### SAXOPHONE

Lauren Coletti '27 Peter D'Agata '25 Ethan Lampert '22 Kavi Mathur '26 Owen Shultz '27

#### TRUMPET

Tessa Klimowicz '26 Tyler Weissinger '25

#### TROMBONE

Oliver D'Anna '26 Art Duncan Chris Tompkins '27

#### PIANO

Ryder Mollo '26

#### GUITAR

Aarón Carretero Benites '25

#### BASS

Sam Dickinson '27 Leo Weisberger '26 Owen Santora '26

#### DRUMSET/PERCUSSION

Joseph Cirksey '24 Ben Pistiner '27

#### VOCALS

Alicia Cynamon '25 Victoria Donatacci '24 Rosalind Lampert '26 Benjamin Neff'25 Nikki Newcomer '24 Chris Tompkins '27

### LATIN PERCUSSION WORKSHOP

John Hayes '25 Jackson Janney '24 Casey Langschultz'27 Yuxing Liu '24 Monica Mackey Rafael Murillo '24 Ben Pistiner '27 Faith Potter '25 Owen Shultz '27 Chris Tompkins '27 Shiqi Wang '26

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Alexander Forsyth	Wold Atrium	Joshua Hiller	ISEC Atrium
Alexandra Nicolaus	Wold Atrium	Jules Squissato	Wold Atrium
Alexia Goldenberg	ISEC Atrium	Kali Jauregui Morris	ISEC Atrium
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Andrew Bassuk	Wold Atrium	Lily van Baaren	Schaffer Library
Ann Zhang	ISEC Atrium	Linnea Tix	Wold Atrium
Anthony Condemi	Wold Atrium	Mahek Desai	Schaffer Library
Anthony Ruzzo	ISEC Atrium	Maia Carty	Wold Atrium
Antonio Griffin	ISEC Atrium	Matthew Epstein	ISEC Atrium
Ashlesha Bhagat	ISEC Atrium	Maxwell Rhodes	Wold Atrium
Ashley Dell'Oso	Schaffer Library	Mridula Shanker	Schaffer Library
Ava Hubert	Schaffer Library	Nathan Riordon	Wold Atrium
C'lannye James	Wold Atrium	Nicholas DeBaise	Wold Atrium
Calvin Schneider	Schaffer Library	Niha Das	ISEC Atrium
Candido, Rhianna R.	Wold Atrium	Nora Kliczewski	Wold Atrium
Caroline Monaco	Wold Atrium	Olivia Logan	ISEC Atrium
Cassidy Careccia	Schaffer Library	Qianying Zhu	Schaffer Library
Chau Tran Minh	Wold Atrium	Rafael Murillo	ISEC Atrium
Collin Harrington	ISEC Atrium	Raquel Duenas	Wold Atrium
David Dombrovsky	Wold Atrium	Sarah Unger	Wold Atrium
Dimitrios Binopoulos	Schaffer Library	Sean Laragy	Schaffer Library
Dionis Polanco	Schaffer Library	Shams Qureshi	Wold Atrium
Dylan Robichaud	ISEC Atrium	Shayna Kantor	Wold Atrium
Eduardo Castro	ISEC Atrium	Sophia Douglas	Schaffer Library
Elizabeth-Veronica Crowley	ISEC Atrium	Stephen Barbelet	Schaffer Library
Elma Dema	Wold Atrium	Talia Marc	Wold Atrium
Emma Phillips	Wold Atrium	Taryn LaFontaine	Wold Atrium
Gavin Wright	ISEC Atrium	Timothy McGarry	Wold Atrium
Grace Beazoglou	Schaffer Library	Tristen Kemp	ISEC Atrium
Hades Panlilio	ISEC Atrium	Vaishali Srinivasan	Wold Atrium
Jake Karp	Wold Atrium	Vasileios Megas	Wold Atrium
Jayson Bromberg	ISEC Atrium	Victoria Avon	Wold Atrium
Jeffrey Kent	Wold Atrium	Zachary Kalb	ISEC Atrium
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Aidan Parente	5:00 p.m.	Wold 225	Devin Snyder	11:40 a.m.	: Wold 128
Alex Strait	11:10 a.m.	Karp 103	Diep (Emma) Vu	9:50 a.m.	ISEC 118
Alexander Morin	10:20 a.m.	Karp 103	Dimitrios Giovanoudas	9:10 a.m.	Lippman 014
Alexander Ottavio	3:40 p.m.	Karp 001	Eastwood Yeboah	2:30 p.m.	Lippman 012
Allison Shelley	10:40 a.m.	Lippman 014	Elaine Fryer	2:30 p.m.	Lippman 017
Allison Smith	10:20 a.m.	ISEC 120	Elias Valore-Caplan	8:30 a.m.	Karp 105
Amelia Keese	10:20 a.m.	Karp 105	Elias Valore-Caplan	2:10 p.m.	Wold 225
Amy Aranda	9:30 a.m.	Lippman 012	Elizabeth Bentsianov	11:00 a.m.	Karp 001
Annabella Schiavi	11:00 a.m.	Karp 105	Ella Brinklev	8:30 a.m.	Wold 225
Anton Tatus	9:10 a.m.	Lippman 016	Ella Tycz	2:10 p.m.	Karp 001
Arundhati Gore	8:30 a.m.	ISEC 120	Emily Deyst	8:30 a.m.	Karp 002
Audrey Larson	2:30 p.m.	Lippman 101	Emily Stein	8:30a.m.	ISEC 124
Aurore Lambert	3:10 p.m.	Lippman 017	Emily Vasquez	8:50 a.m.	ISEC 118
Ayah Osman	4:40 p.m.	Lippman 017	Ethan Romero	2:10 p.m.	ISEC 120
Bailey McAtee	4:00 p.m.	Wold 225	Finlay MacDonald	9:50 a.m.	Wold 225
Beatrice Ogden	2:10 p.m.	Karp 002	Genevieve Goldstein	10:40 a.m.	Lippman 101
Benjamin Stern	10:40 a.m.	Karp 105	Giani Digennaro	9:50 a.m.	Lippman 017
Benjamin Tichner	10:20 a.m.	Lippman 016	Glory Moncion Allen	1:50 p.m.	Lippman 012
Bennett Beaulieu	2:30 p.m.	ISEC 124	Grace Nicol	9:50 a.m.	ISEC 120
Braman Cronin	1:50 p.m.	Wold 225	Grace Parini	1:50 p.m.	Lippman 101
Brinton Roberts	3:40 p.m.	Wold 225	Grace Stearns	9:10 a.m.	Lippman 017
Brooke Fleming	10:40 a.m.	Lippman 017	Grace Tang	1:50 p.m.	Lippman 012
Caroline Kelly	10:20 a.m.	Karp 001	Grace Tang	12:00 p.m.	Karp 006
Caroline Stanton	4:40 p.m.	Karp 001	Grant deBoer	8:30 a.m.	Karp 103
Cassandra DeGeorge	9:10 a.m.	Karp 105	Gregory Melchior-Fisher	1:50 p.m.	Lippman 017
Catherine Lapham	9:30 a.m.	Karp 103	Hannah Shames	8:50 a.m.	ISEC 120
Celeste Beaudoin	11:00a.m.	Karp 002	lan Gray	2:30 p.m.	Karp 001
Charles Alekson	8:50 a.m.	Karp 103	Isabella Jenney	11:40 a.m.	Karp 006
Charles McVicker	3:10 p.m.	Lippman 012	Jack Anderson and	10:40 a.m.	ISEC 118
Chau Tran Minh	2:50 p.m.	ISEC 124	Ashley Pontillo		
Christian Carrigan	11:20 a.m.	ISEC 124	Jack Thompson	8:30 a.m.	Lippman 016
Christopher Galiano	2:30 p.m.	Lippman 014	Jackson Janney	10:20 a.m.	Emerson Auditorium
Christopher Tsouvalas	8:50 a.m.	Wold 225	James Hogan	3:10 p.m.	Lippman 014
Claire Braaten	11:00 a.m.	Lippman 014	James O'Haire	10:20 a.m.	Lippman 017
Clara LaCorte	3:40 p.m.	Karp 002	Jasmine Choi	8:30 a.m.	Karp 001
Clare Reilly	11:20 a.m.	Lippman 014	Jasmine Choi	9:10 a.m.	Karp 001
David Krimer	1:50 p.m.	ISEC 124	Jason D'Amico	2:10 p.m.	Lippman 012
Davis Richard	9:30 a.m.	ISEC 120	Jenna Meshcon	5:00 p.m.	Karp 001
Devin Batheja	11:00 a.m.	ISEC 124	Jeremy Schmelkin	4:20 p.m.	Lippman 017
& Kyra Lum			Johanna DiCerbo	10:40 a.m.	Karp 006
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Johanna DiCerbo	5:00 p.m.	ISEC 120	Meredith Killian	9:30 a.m.	Karp 001
Jonah Levin	2:30 p.m.	Karp 105	Michael Stanco	10:40 a.m.	Karp 103
Jonathan Rust	10:20 a.m.	Lippman 012	Minh Nguyen	4:40 p.m.	Wold 225
Kaitlyn Ehmann	10:40 a.m.	ISEC 120	Mohamed Kaid	4:20 p.m.	Wold 225
Katelyn Hirnak	8:50 a.m.	Lippman 017	Molly Rusgrove	5:00 p.m.	Karp 002
Katelyn Hirnak	10:20 a.m.	ISEC 124	Morgan Malinow	9:10 a.m.	ISEC 120
Katherine Riley	8:50 a.m.	Lippman 014	Morgan Truesdell	10:40 a.m.	ISEC 124
Katie Boermeester	11:00 a.m.	Wold 128	Mya Delesdernier	4:00 p.m.	Karp 002
Kayla Shapiro	1:50 p.m.	Karp 001	Natalia Garcia	9:30 a.m.	Karp 002
Kevin Ha	2:10 p.m.	Karp 105	Nicholas Gellrich	11:00 a.m.	ISEC 118
Khai Dong	2:30 p.m.	ISEC 118	Nicole Marcin-Van Meter	2:10 p.m.	Lippman 014
Khai Ton	4:00 p.m.	ISEC 120	Nicole Turpin	10:20 a.m.	ISEC 118
Kiara Lewis	8:50 a.m.	Karp 002	Nikola Newcomer	10:40 a.m.	Wold 128
Kyle Patlove	4:00 p.m.	Lippman 017	Nima Darafshi	4:20 p.m.	ISEC 120
Kyra Lum & Devin Batheja	11:00 am	ISEC 124	Nishtha Agarwal	9:50 a.m.	Lippman 016
Lani Waggoner	9:50 a.m.	ISEC 124	Noa Shevchuk	4:00 p.m.	Karp 105
Laura Matthew	1:50 p.m.	Karp 105	Nolan Randall	2:50 p.m.	Wold 225
Leslie Quijada	10:40 a.m.	Lippman 016	Oliver Taylor	1:50 p.m.	Lippman 014
Liam Hoye	8:30 a.m.	Lippman 014	Olivia Gwinnett	8:30 a.m.	ISEC 118
Lillian Woods	8:50 a.m.	ISEC 124	Owen Harrison	2:10 p.m.	Lippman 017
Louis Aquino	11:20 a.m.	Wold 128	Peter D'Agata	9:30 a.m.	Lippman 017
Luca Richo	8:30 a.m.	Lippman 017	Peter Kip	11:00 a.m.	Lippman 101
Lucas Cohen	3:10 p.m.	Karp 001	Quincy Brown	8:50 a.m.	Karp 105
Lucy Mastrianni	2:50 p.m.	Lippman 017	Rafael Murillo	10:40 a.m.	Emerson Auditorium
Lydia Singer	10:20 a.m.	Karp 002	Roginski, Alex B.	9:30 a.m.	Karp 105
MacKenzie Black	11:00 a.m.	Lippman 012	Rosemary Crooker	9:50 a.m.	Karp 001
Mahek Desai	10:20 a.m.	Karp 006	Rubab Raza	9:30 a.m.	ISEC 124
Manav Bilakhia	1:50 p.m.	ISEC 118	Rubab Raza	4:40 p.m.	Karp 006
Margaret Peterjohn	9:10 a.m.	Karp 103	Ryan Cudworth	3:40 p.m.	Lippman 017
Margaret Peterjohn	4:20 p.m.	Karp 006	Ryan Davis	11:00 a.m.	ISEC 120
Margaret Turck	9:10 a.m.	ISEC 124	Ryan Nowak	4:40 p.m.	ISEC 120
Mariel Silpe	10:20 a.m.	Lippman 014	Ryan Petrauskas	2:10 p.m.	ISEC 118
Mark D'Alessandro	11:00 a.m.	Emerson Auditorium	Ryosuke Hashimoto	8:50 a.m.	Lippman 016
Mark D'Alessandro	2:10 p.m.	Lippman 016	Ryosuke Hashimoto	11:20 a.m.	Karp 006
Mary Gallary	8:50 a.m.	Lippman 012	Sarah Dames	8:30 a.m.	Lippman 012
Maxine Wetzel	8:50 a.m.	Karp 001	Sarah Murphy	11:20 a.m.	Karp 105
Mayah Teplitskiy	9:10 a.m.	ISEC 118	Sathvik Narayana	4:20 p.m.	Karp 001
Mayur Pabba	9:30 a.m.	Lippman 016	Sebastian Graber-Adamsons	2:50 p.m.	Lippman 101
Meredith Blinn	9:30 a.m.	Wold 225	Shane Fuhrey	9:30 am	Wold 225
& Shane Fuhrey			& Meredith Blinn		
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Shivani Modi	4:00 p.m.	Karp 006
Sivagouzia Sivarajah	2:30 p.m.	ISEC 120
Sivagouzia Sivarajah	5:00 p.m.	Karp 006
Snigdha Narayandas	11:20 a.m.	Karp 001
Sophia Douglas	11:00 a.m.	Karp 006
Sophie Chesnut	9:10 a.m.	Lippman 012
Sophie Ruhl	3:40 a.m.	Karp 105
Sreehitha Manga	11:40 a.m.	Karp 001
Sriya Baru	10:40 a.m.	Karp 001
Stella Rowley	9:50 a.m.	Lippman 012
Stella Rowley	1:50 p.m.	Lippman 016
Stephen Wong	10:40 a.m.	Karp 002
Sutirth Mannikeri	11:00 a.m.	Lippman 016
Tam Vu Chi	2:50 p.m.	Karp 001
Tessa Fountain	4:20 p.m.	Karp 105
Tessa Thomas	4:20 p.m.	Karp 002
Thomas Raimo	9:30 a.m.	Yulman Theater
		Room 101 (Studio A)
Ebyan Abshir	1:50 p.m.	Karp 002
Thomas Schrader	11:20 a.m.	Lippman 101
Thomas Schrader	2:30 p.m.	Karp 002
Ummi Coats	4:40 p.m.	Karp 002
Uri Tomer	9:30 a.m.	ISEC 118
Veronica Turek	1:50 p.m.	ISEC 120
Victoria Avon	9:10 a.m.	Karp 002
Viola Li	10:40 a.m.	Lippman 012
Viola Li	3:40 p.m.	ISEC 120
Viraj Brahmbhatt	4:00 p.m.	Karp 001
William Grimwood	2:50 p.m.	Lippman 014
William Zimmer	2:30 p.m.	Wold 225
Yasmin Torres	2:10 p.m.	ISEC 124
Yenely Payano Lora	9:10 a.m.	Wold 225
Yutong Wu	11:20 a.m.	Emerson Auditorium
Zachary Davis	10:20 a.m.	Lippman 101
Zachary Panlilio	5:20 p.m.	Wold 225



