EVENT PROGRAM

OCTOBER • 20 • 2023
FELDMAN BALLROOM
DOUGLASS COMMONS

ROUNDTABLE DISCUSSIONS 9:00AM TO 10:00AM
RESEARCH TALKS BY AS&E GRADUATE STUDENTS 10:00AM TO 3:45PM
NETWORKING RECEPTION WITH AWARDS PRESENTED BY AS&E DEAN OF GRADUATE EDUCATION & POSTDOCTORAL AFFAIRS NICK VAMIVAKAS 4:00PM TO 5:30PM

SPECIAL THANKS TO...
• VOLUNTEER MODERATORS, JUDGES
• ROUNDTABLE FACILITATORS
• RIVER CAMPUS LIBRARIES
• THE GRADUATE STUDENT PRESENTERS!
<table>
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<th>Time</th>
<th>Feldman Ballroom Section A</th>
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| 10:00-10:15  | Alicia Shipley  
Biology  
“The Mechanism of Histone Exchange between Lipid Droplets” | Irving Barron  
Electrical and Computer Engineering  
“Dual Modulated QR Codes: Augmented QR Codes for Carrying a Secondary Message and Enabling New Applications” |
| 10:15-10:30  | Michael Chavrimootoo  
Computer Science  
“Search versus Search for Collapsing Electoral Control Types” | Maria Castano  
Biology  
“Novel candidate genes involved in carotenoid metabolism in Neotropical birds” |
| 10:30-10:45  | Alison Salamatian  
Chemistry  
“CO2 Reduction Catalyzed by Biomolecular Cobalt Catalysts” | Isabelle Linares  
Biomedical Engineering  
“Developing a Microfluidic Human Tendon-on-a-Chip (hToC) to Investigate the Role of the Vasculature in Tendon Injury” |
| 10:45-11:00  | Kevin Gausselin  
Philosophy  
“Veridical Conscious States and the Value of Knowledge” | Marcos Mac Mullen  
Economics  
“Government Spending and the Real Exchange Rate” |
| 11:00-11:15  | Alyson March  
Biomedical Engineering  
“In vitro surrogate for vascularization predicts hydrogel mediated allograft healing in tissue engineered periosteum application” | Lynn Sidor  
Biology  
“Opticol: Self-assembled bacterial microlenses for optical applications” |
| 11:15-11:30  | Oviya Mohan  
Brain and Cognitive Sciences  
“Experimental Emergence of Conventions in Humans” | Marcia Esteves Agostinho  
History  
“What an engineer can bring to historical research” |
| 11:30-11:45  | Arjyama Bordoloi  
Mechanical Engineering  
“Exploring Rashba Spin-Orbit Coupling Effects in Two-Dimensional Materials” | Madeleine Wilsey  
Materials Science  
“Selective electrocatalytic toluene oxidation to benzyl alcohol using laser made nanocatalysts” |
| 11:45-12:00  | Jordan Butt  
Chemistry  
“Full in situ photonic parameter extraction on a 300 mm wafer” | Ovishek Morshed  
Optics  
“Exciton-Polaritons Generated from Strong Coupling between CdSe Nanoplatelets and a Fabry-Pérot Cavity” |
| 12:00-12:15  | Connor Cox  
Materials Science  
“High Surface Area Assemblies of Cold Nanoparticles on Hydrophilic Carbon Fiber Paper with Ionomer Overlayers for Stable and Selective Electrocatalytic CO2 Reduction to Clean Syngas” | Sarat Tirumala  
Physics  
“Fiber Optic Chirp Matched Parametric Amplification” |
| 12:15-12:30  | Sankalp Saoji  
TEAM  
“Simulator for Predicting Snow Losses for Buffalo Solar” | Sai Varun Aduru  
Chemical Engineering  
“Sub-inhibitory antibiotic treatment selects for enhanced metabolic efficiency” |
<p>| 12:30-1:00   | BREAK                                                                                   | BREAK                                                                                   |</p>
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| 1:00-1:15  | **Constanza Aceves Rodriguez** Linguistics  
“Las Mareñas: A Documentation of Huave Women’s Language and Livelihood” | **Micah Williams** English  
| 1:15-1:30  | **Ziyi Meng** Materials Science  
“Electrocatalytic Degradation of the PFAS Chemical Perfluorooctane Sulfonic Acid in Aqueous Solution” | **Sakura Hamazaki** Biology  
“Impact of calcium entry through Cav.1 in myotonic dystrophy myopathy” |
| 1:30-1:45  | **Sanjana Kapisthalam** BCS  
“Looking for details: Fine-grained visual search at foveal scale” | **Shane Michtavy** Chemical Engineering  
“Accelerating Decarbonization via Bayesian Optimization of Novel Catalyst Designs” |
| 1:45-2:00  | **Elizabeth Carr** History  
“A complex relationship between emotional features of familiar music and evoked autobiographical memories” |
| 2:00-2:15  | **Hossein Abolhassani** Biomedical Engineering  
“Organ-on-a-chip microphysiological systems for the development of salivary gland tissue on a chip” | **Pouria Hajizadeh** Mechanical Engineering  
“Application of Approximate Bayesian Computation in NASA’s CARES/Life” |
| 2:15-2:30  | **Elizabeth Piedmont** Chemistry  
“Amphiphilic Dendrons as Supramolecular Holdase Chaperones” | **Zoe Stearns** Brain and Cognitive Science  
“Temporal dynamics of peri-microsaccadic perceptual modulations in the foveola” |
| 2:30-2:45  | **Jie An** Computer Science  
“OpenLEAF: Open-Domain Interleaved Image-Text Generation and Evaluation” | **Rashad Ahmadov** Chemical Engineering  
“Fischer-Tropsch Synthesis with Re-Co and V-Co Single Atom Alloys” |
| 2:45-3:00  | **Shannon Cooney** Chemistry  
“Modeling Metal Oxide Chemistry with Atomically Precise Clusters” | **Nitya Ravi** Physics  
“Measuring Dark Matter in Spiral Galaxies” |
| 3:00-3:15  | **Olympia Mathiaparanam** Brain and Cognitive Science  
“Novel computational methods for examining students’ conceptions of category variability” | **You Zhang** Electrical and Computer Engineering  
“Grid-Agnostic Personalized Head-related Transfer Function Modeling with Implicit Neural Representations” |
| 3:15-3:30  | **María Fernanda Lizarazo** Chemistry  
“Study of Co-porphyrin assemblies on CdSe Quantum Dots for hydrogen evolution in water” | **Promise Abedu** BME  
“Bioactivity and Interactions of Microplastics and Chemical Contaminants” |
| 3:30-3:45  | **Mehrnoush Kharghani** Mechanical Engineering  
“Mass Transport By Oceanic Mesoscale Eddies” | **BREAK BEFORE RECEPTION** |
| 3:45-4:00  | **BREAK BEFORE RECEPTION** | **BREAK BEFORE RECEPTION** |