UNIVERSITY OF ROCHESTER

ARTS, SCIENCES, & ENGINEERING

GRADUATE RESEARCH DAY

OCTOBER • 20 • 2023

EVENT PROGRAM

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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!

Morning Presentations

Time	Feldman Ballroom Section A	Feldman Ballroom Section D
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 "Opticoli: 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 Gold 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"
12:30-1:00	**BREAK**	**BREAK**

Afternoon Presentations

Time	Feldman Ballroom Section A	Feldman Balroom Section D
1:00-1:15	**Constanza Aceves Rodriguez** Linguistics ""Las Mareñas": A Documentation of Huave Women's Language and Livelihood"	**Micah Williams** English "The Chauvinist Slide: Investigating White Supremacist Nostalgia Through The Clansman"
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 Cav1.1 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 "Let Tears Abound: The Emotional Monuments of Gettysburg National Military Park"	**Riesa Cassano-Coleman** Brain and Cognitive Sciences "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"	
3:45-4:00	**BREAK BEFORE RECEPTION**	**BREAK BEFORE RECEPTION**