

L&S Honors Program

Sophomore Research Apprenticeship Retreat



July 24, 2020
2 p.m.

Signing On to Web Conference, Troubleshooting, Introduction: 2:00-2:10

Times are estimates, including approximately two minutes per student speaker, with time after each grouping for questions.

(Group 1) Chemical and Mathematical Analytics: 2:10-2:25 p.m. (Moderator: Matt Kohlstedt)

Nicholas Juntunen: *Exploring the kinetics and structure of cysteamine dioxygenase through a protein variant*

Qiuwen Quan: *Characterization of modified intact RNA by NETD mass spectrometry*

Shuyi Zhang: *Aging Study of Unique Polydicyclopentadiene Thermoset Material*

Diya Yang: *A New Optimal Control Approach for Complex Nonlinear Turbulent Dynamical Systems*

Brandon Dawning: *High energy organic molecules and the Origin of Life*

(Group 2) Medical Microbiology & Entomology: 2:25-2:40 p.m. (Moderator: Sabine Gross)

Brody Andes: *Understanding Neutrophilic Evasion in fungal pathogen *Candida auris**

Tristan Argall: *Drug Screening of Pathogenic Fungal SF3b1 Proteins in *Saccharomyces cerevisiae**

Cathy Cao: *Machine Learning Algorithms for Classifying Bioparticles from Soil Samples*

Leta Landucci: *Interactions between Japanese beetles and their host plants - a dynamic between physical and chemical traits and herbivore behavior*

(Group 3) Environmental Studies & Conservation: 2:40-2:55 p.m. (Moderator: Sara Stephenson)

Cassandra Gauthier: *Evaluation of visitor attention to conservation messages at the Henry Vilas Zoo*

Elliot Kim: *Reconciling Differences Between Air Pollution in Computer Models and Satellite Data*

Nachuan Li: *Automated Vehicle Platoon and Extreme Weather Conditions*

Yuxin Liu: *Why Do Public Transit Jobs Get Automated?*

(Group 4) Behavioral Studies & Disorders: 2:55-3:10 p.m. (Moderator: Christine Evans)

Viktorie Menna: *Neuroanatomy of Tau in rhesus wildtype and carriers of a mutation linked to human frontotemporal dementia*

Michel Justen: *Stress-Coherence, Interoception, & Mindfulness (SCIM) Study*

Vivian Phan: *Exploring Relationships and Distinctions Between the Effects of Physiological Stress on the Performance Levels in East Asians and European Americans*

Dasha Yermol: *Validating the Situational Meaning of Functionally Distinct Smiles*

(Group 5) Human Pathology: 3:10-3:30 p.m. (Moderator: Pete Keys)

Aishwarya Bangalore-Sunil: *Activity of Pevonedistat in Patient-Derived Advanced Colorectal Cancer Organoids*

David Turicek: *Treating post-transplant B-cell acute lymphoblastic leukemia with blinatumomab as a radiation sparing immunotherapy*

Kate O'Leary: *Utilizing Anti Codon Engineered-transfer RNA to Read Through Nonsense Mutations that causes LCA16*

Amy Yadev: *Changes in Mitochondria Associated Membranes (MAMs) Related Factors in Pancreatic β -cells During Conditions of β -Cell Stress*

Allison Eierman: *Lumbar Puncture Side Effect Rates in a Research Setting*

(Group 6) Language & Communication: 3:30-3:40 p.m. (Moderator: Matt Kohlstedt)

Shannon McManus: *Social Media Comparison and the Effects on Young Adult Mindset*

Sarah McLeod: *Language Production Under Uncertainty*

Jenna Krakauer: *The role of attention in compensation for altered auditory feedback*