Three Minute Thesis Competition
First-Round Heat #1
Tuesday, Nov. 7, 2023, 9:00AM

Judges:
Rachel Ball-Phillips, Director of Graduate Fellowships and Awards, Moody School of Graduate and Advanced Studies
Brandon Miller, Assistant Dean, University Honors Program and Fellowships
Rob Pearson, Director of Career Development and Postdoctoral Affairs, Moody School of Graduate and Advanced Studies

Competitors:
Melissa Sitton, Psychology PhD: “Caregiver Emotional Support in Relation to Adolescent Functioning After Sexual Abuse: Findings with Enhanced Methods”
Emily Berry, Biostatistics PhD: “Quantitative Fecal Immunochemical Test Results for the Early Detection of Colorectal Cancer”
Muhammad Hashir Syed, Electrical Engineering PhD: “Drones to the Rescue: Drones-Assisted Agricultural Communication Networks”
Lida Aeindarteheran, Chemistry PhD: “Soluble Thiabendazolium Salts with Anthelminthic Properties”
Sabrina Hetzel, Computational and Applied Mathematics PhD: “Solitary Waves in Quartic Kerr Media”
Three Minute Thesis Competition
First-Round Heat #2
Tuesday, Nov. 7, 2023, 10:00AM

Judges:
Rachel Ball-Phillips, Director of Graduate Fellowships and Awards, Moody School of Graduate and Advanced Studies
David Doyle, Dean, Honors and Scholars Programs; Director, University Honors Program
Akihito Kamata; Professor, Department of Educational Policy & Leadership, Department of Psychology; Director, Education PhD Program

Competitors:
Austin Marstaller, Computational and Applied Mathematics PhD: “Nonlinear Dynamics of the Fractional Discrete Nonlinear Schrodinger Equation”
Yuqiu Yang, Biostatistics PhD: “CytoOne: A Deep Generative Model for CyTOF”
Murphy (Keller) Young, Education PhD: “Examining Teacher Candidates’ Instructional Moves During a Simulated Writing Conference: A Case Study”
Zeyu Lu, Statistical Science PhD: “Bayesian Identification of Transcriptional Regulators”
Katie Binkley, Chemistry PhD: “Nanoclusters: Tomorrow's Quantum Dots”
Sen Yang, Biostatistics PhD: “Microbiome-based Predictive Models via Supervised Contrastive Learning”
Rasiq Hussain, Software Engineering MS: “Machine Learning-enhanced Requirements Elicitation and Prioritization for Earth Science Data Management”
Zifang Kong, Statistical Science PhD: “Joint Modeling of Longitudinal and Time-to-event Data for Predicting the Progression of Kidney Stones”
Three Minute Thesis Competition
First-Round Heat #3
Tuesday, Nov. 7, 2023, 11:00AM

Judges:
Monnie McGee, Associate Professor, Statistical Science
Stephen Robertson, Senior Lecturer, Statistical Science, Director, MASDA Program
Santanu Roy, Professor and Director of Graduate Studies, Economics

Competitors:
Yaofang Hu, Statistical Science PhD: “Variational Bayesian Semi-supervised Keyword Extraction”
Shuo Qi, Economics PhD: “Identification and Estimation of Discrete Choice Models with Spillovers Using Partial Network Data”
Kaiwen (Kevin) Wang, Statistical Science PhD: “BiGER: Bayesian Rank Aggregation in Genomics with Extended Ranking Schemes”
Gokhan Kararsiz, Mechanical Engineering PhD: “Navigation and Control of Motion Modes with Soft Microrobots at Low Reynolds Numbers”
Xin Yang, Computational and Applied Mathematics PhD: “Tools of Bio-molecular Modeling and Simulation”
Yifan Lu, Statistical Science PhD: “Uncertainty Quantification and Prediction of Multi-modality Data with Blockwise Missingness Structure in Medical Imaging Analysis”
Alexa Jimenez, Psychology PhD: “Facets of Experiential Avoidance and Neuroticism as Predictors of Internalizing Symptoms”