



Mississippi State University
Three Minute Thesis Competition
Preliminary Rounds
November 15th, 2023

Afternoon Session
1:00 p.m. to 3:00 p.m.

Join us in-person or virtually via this WebEx Link:
<https://msstate.webex.com/msstate/j.php?MTID=med32f6a0844116e7c463fba07fc3b7db>

Welcome

Dr. Nathan Drake
Director of Graduate Programs, The Graduate School

SESSION 1

1:00 p.m. to 1:50 p.m.

Claire S. Geneser, PhD

Physics and Astronomy, College of Arts and Sciences

Using Doppler Spectroscopy to Determine the Mass of Exoplanet TOI-139 b

Ashmita Poudel, PhD

Wildlife Fisheries and Aquaculture, College of Forest Resources

Near infrared spectroscopy: A subtle art of finding the difference

Daniel Olabode Oguntuyi, PhD

Chemistry, College of Arts and Sciences

Ensuring a Serene Eco-system: Heavy Metal Decontamination in Wastewater via Engineered Biochar

Dan McCormick, PhD

Civil Engineering, College of Engineering

An Experimental Investigation of Performance Coated Low-Iron Glass for Use in Airport Traffic Control Towers

Madalyn Stoecker, Master's

Wildlife Fisheries and Aquaculture, College of Forest Resources

Bee Communities Change with Pine Forest Stage

Chinwendu Umeojiakor, PhD

Chemical Engineering, College of Engineering

Plasma-induced Catalysis of Greenhouse Gas Conversion to Hydrocarbon Fuels and Chemicals

Muhammad Yusef, PhD

Physics and Astronomy, College of Arts and Sciences

Quantum Supremacy at MSU?

Vandana Dharan, PhD

Wildlife, Fisheries, and Aquaculture, College of Forest Resources

Unveiling Viral Disease Progression in Catfish

BREAK

1:50 p.m. – 2:00 p.m.

SESSION 2

2:00 p.m. – 3:00 p.m.

Luke Tucker, PhD

Agricultural and Biological Engineering, College of Engineering

Localize Treatment of Chronic Diseases

Matthew Olson, Master's

Wildlife, Fisheries and Aquaculture, College of Forest Resources

Using Trace Element Analysis of Gulf Sturgeon Fin Spines to Predict Early Life Movement Patterns and Natal Origin



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Humayun Ahmad, PhD

Chemical Engineering, College of Engineering
*Highly Stretchable and Reversible Core-Shell
Conductive Electrospun Fiber*

Kara Hall, Master's

Wildlife, Fisheries, and Aquaculture, College of
Forest Resources
*Assessing the Impacts of Wetland Reserve
Easements on Bird Abundance & Diversity*

Ncomiwe Andile Maphalala, Master's

Plant and Soil Sciences, College of Agriculture and
Life Sciences
*Soybean Bacterial Inoculation: Against Herbicide
Stress*

Patricia Marie Cordero-Irizarry, PhD

School of Human Sciences, College of Agriculture
and Life Sciences
*Grounded Values: An Exploration of Soil Ethics in
Coffee Farming*

Varsha Shastry, PhD

Wildlife, Fisheries and Aquaculture, College of
Forest Resources
*Small Mammal Responses to fire and predation in a
Longleaf Pine Ecosystem; at the Jones Center at
Ichauway, Georgia*

Esteemed Judges

Kevin Anderson

Manager
Enterprise Information Systems

Lara Taylor

Instructional Technology Specialist
MSU Libraries

Delaney Foster

Interim Director
Office of Institutional Diversity and Inclusion

NOTES

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