



Mississippi State University
Three Minute Thesis Competition
Preliminary Rounds
November 15th, 2022

Morning Session
9:00 a.m. to 11:15 a.m.

Join us in-person or virtually via this WebEx Link:
<https://msstate.webex.com/msstate/j.php?MTID=m58cfc151f0ddea745918d738a38c5da>

Welcome

Karlee McNeel, President, Graduate Student Association
Master's, Biomedical Engineering, James Worth Bagley College of Engineering

SESSION 1

9:00 a.m. to 9:45 a.m.

Tingjun Lei, PhD

Electrical and Computer Engineering, College of Engineering
Autonomous Detection Robot as Applied in a Poultry Barn

Emma Schultz, PhD

Wildlife, Fisheries and Aquaculture, College of Forest Resources
Evaluating the efficiency and effectiveness of Unoccupied Aircraft Systems (UAS) for monitoring animals

Mercy Ogunruku, Master's

Sustainable Bioproducts, College of Forest Resources
Expanding Market for Timber Industrial Mats Manufactured from Hardwood Cross-Laminated Timber (CLT)

Gabriel Nyen, Master's

Forestry, College of Forest Resources
The Longleaf Legacy

Ayantha Senanayaka, PhD

Industrial and Systems engineering, College of Engineering
Identifying Process Health States in Machinery to Facilitate Maintenance

Macy Gosselaar, Master's

Forestry, College of Forest Resources
Impact of Differentially Expressed Genes in Monoclonal and Polyclonal Plantings of Populus deltoides for Agricultural Nitrogen Mitigation

Sakie Jaladha Arachchige, PhD

Mathematics and Statistics, College of Arts and Sciences
Risk prediction of Primary Ovarian Insufficiency by an early age among female childhood cancer survivors

BREAK

9:45 a.m. – 9:55 a.m.

SESSION 2

9:55 a.m. – 10:30 a.m.

Ishab Poudel, PhD

Poultry Science, College of Agriculture and Life Sciences
Controlling Salmonella Enteritidis in Laying Hen

Eda Ozdemir, PhD

Comparative Biomedical Sciences, College of Veterinary Medicine
A Live Attenuated Vaccine for U.S. Farm-Raised Catfish

Elizabeth Esser, Master's

Forestry, College of Forest Resources
*Using Plant Secondary Metabolites to Manage Invasive Cogongrass (*Imperata cylindrica*)*



MISSISSIPPI STATE UNIVERSITY™
THE GRADUATE SCHOOL



Bipin Lamichhane, PhD

Physics and Astronomy,
College of Arts and Sciences
Oxidation resistance of atomically flat Cu(111) surface: A First-principles study

Luke Tucker, PhD

Agricultural and Biological Engineering,
College of Engineering
Local Treatment of Chronic Bone Infections

Rezwana Rahman Setu, PhD

Biochemistry, Molecular Biology, Entomology and
Plant Pathology,
College of Agriculture and Life Sciences
The Function of TOP1 and TOP2 Thimet Oligopeptidases in Controlled Proteolysis During the Innate Immune Response

Namia K. Stevenson, Master's

Wildlife, Fisheries and Aquaculture,
College of Forest Resources
Saving One Amphibian at a Time: Optimizing the Transferability of ART protocols in Anurans

BREAK

10:30 a.m. – 10:40 a.m.

SESSION 3

10:40 a.m. – 11:10 a.m.

Amit Talukder, Master's

Fashion Design and Merchandising,
College of Agriculture and Life Sciences
Applicability of Wearable PhotoVolatic Cells for the marine environment

Celene Slifka, Master's

Comparative Biomedical Sciences,
College of Veterinary Medicine
That Dang Bolbophorus: Using Real-Time PCR to Detect Snail Intermediate Hosts of Bolbophorus damnificus

Felipe Fernandez Martinez, PhD

Civil and Environmental Engineering,
College of Engineering
Mississippi Delta needs a P-Index

Ncomiwe Maphalala, Master's

Plant and Soil Sciences,
College of Agriculture and Life Sciences
Effects of herbicides and inoculation effect of Rhizobium spp on growth of common bean (Phaseolus vulgaris L.) and soil microbial properties: an herbicide carryover perspective

Amanda Mayo, Master's

Geosciences, College of Arts and Sciences
Effectiveness of Omeka Virtual Platforms for Engaging Dunn-Seiler Museum Audiences

NOTES

