

PhD Defense Advisor: Dr. Andreia Bianchini

# Waraporn (Pookie) Mahlman

December 3, 2024 9:30 am **FIC 277** 

### "Adequacy Evaluation of 3MTM PetrifilmTM Aerobic Count Plate for Low Water-Activity, High Salt, and Low pH Foods"

I hold a Master of Science in Environmental Sanitation Science, a Bachelor of Science in Public Health with a major in Environmental Health Science from Mahidol University in Bangkok, Thailand, and a Bachelor of Public Health in Occupational Health and Safety from Sukhothai Thammathirat Open University, Thailand. Prior to my current role, I served as a Chemist and Microbiologist III at the State of Nebraska Department of Agriculture laboratory. I also have experience working as a Quality Assurance personnel member for a meat packaging company. Before relocating to the USA, I taught at Huachiew Chalermprakiet University in Thailand. Currently, I am employed as a Food Microbiology Lab Manager and Research Technologist II in the Department of Food Science and Technology at the University of Nebraska-Lincoln. Alongside my professional responsibilities, I am pursuing a Ph.D. in Food Microbiology under the advisement of Dr. Andreia Bianchini and the supervision of Dr. Jayne Stratton.



PhD Defense Advisor: Dr. Devin Rose

## Sujun (Willow) Liu

December 3, 2024 9:00 am **FIC 220** 

Zoom link: https://unl.zoom.us/j/99566881505

### "Increasing the Impact of Dietary Fiber from Grains on Human Health **Through Gut Microbiome**"

Willow (Sujun Liu) is a Ph.D. candidate advised by Dr. Devin J. Rose. She earned both her Master's and Bachelor's degrees from the University of Nebraska-Lincoln. Willow's research focuses on cereal dietary fibers and their interactions with the human gut microbiota. Her work explores how chemical modifications of dietary fibers influence microbial composition and metabolism. Through this research, she has provided novel insights into the release of phenolic compounds during chemical modifications and their implications for gut microbiota-driven fermentation processes. Additionally, her studies examine the impact of high-fiber wheat on the human gut microbiome.



**MS** Project Final Presentation Advisor: Dr. Rossana Villa Rojas

## **Daniela Segura**

April 7, 2025 3:00 pm **FIC 277** 

Zoom link: https://unl.zoom.us/j/93366000723

### "Inactivation of *E. faecium* NRRL B-2354 in Whole Black Pepper by Fluidization with Hydrogen Peroxide Vapor"

Daniela Segura is a master's student in the Department of Food Science and Technology at the University of Nebraska-Lincoln, advised by Dr. Rossana Villa Rojas. Her research focuses on assessing the suitability of *E. faecium* as a surrogate for a novel technology designed to treat black pepper, contributing to food safety validation. Her work investigates the microbial inactivation of this potential surrogate while analyzing three key quality parameters, providing valuable insights into this alternative processing technology. Daniela earned her bachelor's degree in Chemical Engineering from Universidad Metropolitana de Caracas, Venezuela, in 2021.