

2025 Research and the State

Afternoon Presentations

1:30 - 3:30pm

Regnier Hall Atrium

First Name	Last Name	Degree	Program	Presentation Title
Adwaitha	Pradeep	Doctorate	Electrical and Computer Engineering	Anomaly Detection in Power Systems
Aidan	McVey	Doctorate	Genetics	DNA Starships Mobilize Genes in Fungal Pathogens
Arash	Latifi	Doctorate	Electrical and Computer Engineering	Tracking Disease Spread More Accurately by Fixing Delayed Data
Aravinth	Ravi	Doctorate	Mathematics	UNSUPERVISED MODEL-INFORMED DEEP LEARNING ALGORITHM TO SOLVE THE 3D INVERSE SOURCE PROBLEM
Asmita	Mahara	Doctorate	Biological and Agricultural Engineering	Biological treatment of hydrothermal liquefaction wastewater (HTLWW) using a fungal-protist combination
Avery	Neer	Masters	Regional and Community Planning	Engaged Urban Design and Planning: Student Learning Outcomes and Service-Learning
Bhavana	Sivayokan	Doctorate	Psychology	Restricted repetitive behaviors in fragile X syndrome across the lifespan
Brooke	Vogt	Doctorate	Microbiology	Rhizospheric Conversion of Trimethyllysine (TML) to Trimethylamine-N-oxide (TMAO): An Emerging Mechanism for Microbe-Facilitated Crop Drought Resilience
Christina	Wood	Masters	Kinesiology	Age and Sex Related Contributions of Migraine to CVD Risk
Dean	Afsar	Doctorate	Chemistry	EVALUATING POLYMER ANTIMICROBIAL ACTIVITY: THE INTERPLAY OF POLYMER SEQUENCE, HYDROPHOBICITY AND ARCHITECTURE
Dola	Mazumder	Doctorate	Chemistry	Building a Cleaner Future with Hydrogen Energy
Dylan	Couch	Doctorate	Electrical and Computer Engineering	Improving brain cancer detection rates using a quantum computing framework
Eduardo	Vicentin	Doctorate	Plant Pathology	Too Hot to Handle? How Heat Is Changing the Fight Against Wheat Rust

Elif	Peker	Masters	Food Science	Improving Sorghum Byproducts for Use in Biodegradable Packaging Films
Emmanuel	Adjei kusi	Masters	Human Development and Family Science - Couple and Family Therapy	Filtering the Noise: Advocating for Reliable Relationship Science in Digital Spaces
Evans	Wanyama	Doctorate	Grain Science	The role of electron beams in the formation of starch-polyphenol complexes and the potential impact on starch digestibility
Farzad	Jamaatisomarin	Doctorate	Industrial Engineering	How Ultra-Fast Laser Pulses Reshape Silicon
Giovanna	Teixeira Sandoval Moreira	Doctorate	Plant Pathology	EIF4E ENGINEERING AS A STRATEGY TO BOOST WHEAT RESISTANCE TO WHEAT STREAK MOSAIC VIRUS
Inisa	Shrestha	Masters	Plant Pathology	Fungal Warefare in Corn
Jane	Mascarenhas	Masters	Genetics	Developing a System to Elucidate Genetic Factors Underlying Hypersensitivity Responses in Maize
Jessica	Bezerra de Oliveira	Doctorate	Agronomy	Tracking Nitrogen: The Journey of Fertilizer in Rainfed Wheat Systems
Jessica	Smallfield	Doctorate	Animal Sciences	Optimizing Protein and Gut Health in Nursery Pigs
Joshua	Ighalo	Doctorate	Chemical Engineering	Hydrogen Production from Natural Gas Dry Reforming Over Spinel Catalysts
Katharina	Bremser	Doctorate	Horticulture and Natural Resources	Understanding Soundscapes in National Grasslands: A socio-acoustic approach to visitor perceptions, bird populations, and management implications
Kokou	Amego	Doctorate	Entomology	Innovative plant protection from seed: exploring better and safer methods to protect against wheat insect pests.
Lakma Upendri	Hewa Fonsekage	Doctorate	Agronomy	Evaluating the Environmental Sustainability of Different Urban and Peri-Urban Agriculture Farm Types
Leticia	Vieira	Masters	Plant Pathology	When sorghum can't stand the stress: predicting the fall before it happens
Lucas	Alexandre Batista	Doctorate	Genetics	MEGA-ENVIROMENT GENOMIC PREDICTION IN MAIZE
Madison	Kessler	Doctorate	Plant Pathology	Sudden Death? Not Anymore: Predicting Soybean Sudden Death Syndrome Before It Strikes
MaRyka	Smith	Doctorate	Pathobiology	Evaluating Improved Traceability of Cattle with Electronic Identification in Simulated Movement Networks
Meghan	Rice	Doctorate	Chemistry	Molecules with a Mission: Nature-Inspired Drug Delivery Systems

Nayara	Mota Miranda Soares	Doctorate	Grain Science	Effects of graded levels of red sorghum bran on processing parameters and palatability in dry dog food
Nirmal	Gelal	Doctorate	Computer Science	T-TEXTS (Teaching Text Expansion for Teacher Scaffolding): Enhancing Text Selection in High School Literature through Knowledge Graph-Based Recommendation
Nishadi	Dodampe Mudiyansele	Doctorate	Agronomy	Dusty Homes, Hidden Dangers: Understanding Lead Exposure in Children
Odunayo	Arogundade	Doctorate	Health and Human Sciences - Prevention Science in HDFS	Factors Associated with Quality of Life of Individuals Living with Parkinson's Disease
Olusola	Olagunju	Doctorate	Grain Science	VRI-YOLO11: An Optimized YOLO-Based Model for Automated Hard Red Winter Wheat Grading
Pedro Henrique	Goncalves Pereira de Souza	Doctorate	Grain Science	Can Wheat Breeding Affect Nutritional Quality of Bakery Products?
Raghav	Joshi	Doctorate	Agronomy	Monitoring Spatiotemporal Variability in Soil Moisture with Fully Underground & Wireless Sensors Network
Rebecca	Donaldson	Masters	Agricultural Education and Communication	Talking About Water: How Scientists Across Kansas Connect with the Public
Rehan	Khan	Doctorate	Biology	Decoding stress-response circuits in fruit flies to understand human tumor invasion
Saman	Hosseini	Doctorate	Electrical and Computer Engineering	A Data-Parsimonious Model for Long-Term Risk Assessments of West Nile Virus Spillover
Samson	Adeoye	Doctorate	Chemical Engineering	Carbon Nanotubes: A nanomaterial for sustainable future
Sandhya	Gopisetty	Doctorate	Plant Pathology	Uncovering the Genetic Secrets Behind Toxin Production in a Wheat Fungus
Seyedamirreza	Babaei	Masters	Biological and Agricultural Engineering	From Farm to Table: Creating a Low-Calorie Sugar to Fight Diabetes
Sheetal	Choudhary	Doctorate	Health and Human Sciences - Prevention Science in HDFS	DO use a title that would interest people in learning about your research.
Shruthi	Pullangari	Doctorate	Genetics	Exploring Sorghum's Genetic resistance to Chinch bug Through Targeted Gene Editing
Shubhangi	Arvelli	Doctorate	Biological and Agricultural Engineering	Precision Pathways for Food Waste Upgrading and Resource Recovery
Suhan Bheemaiah	Balyatanda	Doctorate	Grain Science	"All's well that Mills well." ClO2 tempering of wheat for safe and bake ready flour
Tahsin Ishrak	Oishee	Masters	Biological and Agricultural Engineering	Mapping and Quantifying Soil loss in Agricultural Fields in Kansas with Advanced GIS Technique and Process-based Modeling

Taylor	Nading	Doctorate	Health and Human Sciences - Prevention Science in HDFS	Working Together: How Collaboration Improves Care for Kansans with Swallowing Disorders
Thisura	Ilukgoda Gedara	Masters	Geology	Is Your Private Well Water Safe to Drink? Hidden Contamination in Kansas Groundwater
Vidya	Nadar	Doctorate	Chemistry	Small Molecules, Big Impact: Building the Next Generation of Cancer and Antibiotic Drugs
Ying	Huang	Doctorate	Grain Science	Identifying the potential of waxy sorghum starches and flours as thickeners in comparison with waxy maize starch