2025 Research and the State

Morning Presentations

10:00am - 12:00pm

Regnier Hall Atrium

First Name	Last Name	Degree	Program	Presentation Title
Adri	Das	Doctorate	Mechanical Engineering	From Pellets to Protection: Tracking phosphine spread in grain storage
Ajay Prasanth	Ramalingam	Doctorate	Agronomy	Combining the right parents to develop cold-tolerant sorghum hybrids in Kansas
Alireza	Monavarian	Doctorate	Biological and Agricultural Engineering	Modeling the suitability of maize cultivation under future climate scenarios
Amy	Winstead	Masters	Biology	Soil and grass quality are impacted by fire and grazing.
Aravinth	Ravi	Doctorate	Mathematics	UNSUPERVISED MODEL-INFORMED DEEP LEARNING ALGORITHM TO SOLVE THE 3D INVERSE SOURCE PROBLEM
Arijit	Roy	Doctorate	Mechanical Engineering	The Impact of Precursor-derived SiOC Ceramics on the Electrochemical Performance of Functionalized MoS2 Electrodes
Asad Bin	Zaman	Doctorate	Chemical Engineering	How Healthy Soil Supports Beneficial Bacteria That Help Farms Use Less Water
Bailey	Walke	Masters	Mechanical Engineering	Ceramic Matrix Composites with Aerospace Applications
Caitlin	Swope	Masters	Civil Engineering	Recovery of valuable chemicals from swine wastewater and fats, oils and greases
Chanae	Parker	Masters	Animal Science	A metabolic switchboard: uncovering pathways of nutrient utilization for efficient skeletal muscle growth
Chinmay	Deore	Doctorate	Civil Engineering	A lean (or no) chemical membrane bubble bath – Towards holistic swine CAFO waste recovery
Claudio	Dias da Silva	Doctorate	Plant Pathology	Timing It Right: How Weather Shapes the Best Time to Spray Fungicides
Conrad	Kabus	Doctorate	Grain Science	Adding Unconventional Value to Kansas Grain: Using Sorghum Polyphenols for Food Safety and Preservation of Aquatic Products
Dola	Mazumder	Doctorate	Chemistry	Building a Cleaner Future with Hydrogen EnergY
Dustin	Kohn	Masters	Horticulture and Natural Resources	Community & Agriculture Resilience Audit in Two Kansas City Communities

Eduardo	Melgar	Doctorate	Agronomy	Genomic Selection Simulations for Wheat Yield and Protein Improvement Based on Kansas Field Trials
Gabriel	Roberson	Masters	Regional and Community Planning	Reimaging Housing Futures: Community-centered Brownfield Redevelopment in Salt Lake City, UT
Gloria	Ramos	Doctorate	Biological and Agricultural Engineering	High-Resolution Estimation of Crop Evapotranspiration Using Deep Learning-Fused UAV and PlanetScope Imagery: Multi-Source Validation with Field Gauges and OpenET
Hakimeh (Sara)	Ayubian	Doctorate	Curriculum and Instruction	Teaching STEM with Confidence: What Rural Teachers Need to Succeed
Harshavardhan Reddy	Settipalli	Masters	Grain Science	Cold plasma induced disinfestation of callosobruchus maculatus in cowpea
Hope	Mattivi	Masters	Kinesiology	The impact of health awareness on chronic disease outcomes
Isabella	Hinojosa	Masters	Public Health	ASSESSING MOSQUITO ECOLOGY AND DISEASE RISK ACROSS KANSAS LANDSCAPES
Judith	Sempa	Doctorate	Food, Nutrition, Dietetics and Health	Alpha-gal syndrome: public awareness, dietary restrictions, and systemic barriers
Kara	Walker	Masters	Horticulture and Natural Resources - Urban Food Systems	Food System Resilience Contributions by Urban Agriculture Site Types
Kazi Hassan	Shakib	Doctorate	Computer Science	AmphiKey: A Dual-Mode Secure Authenticated Key Encapsulation Protocol for Smart Grid
Kelechi	Igwe	Doctorate	Biological and Agricultural Engineering	Closing the Water Budget Gap: Leveraging Satellite-Based Insights for Accurate Irrigation Water Use Estimation across the Western U.S.
Klara	Stevermer	Masters	Biology	C4 grass lineages have varied responses to atmospheric drying
Lucas	Alexandre Batista	Doctorate	Genetics	MEGA-ENVIROMENT GENOMIC PREDICTION IN MAIZE
Luiza	Adami Monteiro de Castro	Doctorate	Genetics	Growing the Future: Developing Weather-Resilient Wheat
Madison	Sultz	Masters	Agricultural Education and Communication	Crashes Involving Farm Equipment in Kansas
Mahekpreet	Kaur	Doctorate	Biological and Agricultural Engineering	Future Crop Yield and Groundwater Responses of the Ogallala Aquifer to Deficit Irrigation Simulated with SWAT+gwflow
Manavjot	Singh	Doctorate	Biological and Agricultural Engineering	Investigating Soil Moisture Dynamics under a Novel Sprayable Biodegradable Mulch
Maria Binte	Edrish	Masters	Regional and Community Planning	Changing Urban Foodscape: Evaluating Food Access Trends in the Kansas City Metro Area
Maryam	Ghasempour siahgaldeh	Masters	Fine Arts	BETWEEN TWO WORLDS: PHOTOGRAPHY AS A BRIDGE FOR IMMIGRANT VOICES OF MIGRATION, MEMORY, AND RESILIENCE
Masum	Alam	Doctorate	Mechanical Engineering	Swimming in Smallest scale

Matthew	Barnett	Doctorate	Chemistry	CSI: Chemistry: The Case of the Wrong Molecule
McKenzie	Ghrist	Masters	Veterinary Biomedical Science	Monitoring West Nile Virus through Wastewater in the State of Kansas
Mia	Reyes	Masters	Agricultural Education and Communication	Growing Pains: The Entrepreneurial Journey of Kansas Agritourism Operators
Millicent	Tetteh	Masters	Horticulture and Natural Resources	Safe and Sustainable: Nutrient Reuse in Hydroponic Farming
Mohsen	Davoudkhani	Doctorate	Psychology	Odor Identification and Blood-Based Markers Reveal Early Signs of Mild Cognitive Impairment
Muazzama	Mushtaq	Doctorate	Agronomy	FROM PAST TO PRESENT: EVALUATING THE IMPACT OF MANAGEMENT PRACTICES ON SOIL CARBON AND NITROGEN STORAGE OVER 3 DECADES
Muthoni	Kiunga	Doctorate	Leadership Communication	LOCAL WOMEN'S ENVIRONMENTAL CONSERVATION IN THE GREATER MAASAI MARA ECOSYSTEM: A CRITICAL SYSTEMS LEADERSHIP PERSPECTIVE
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
Noah	Renken	Masters	Human Development and Family Science - Couple and Family Therapy	An Exploration of Cat, Dog, and Small Animal Abuse and Child Abuse Perpetration
Parnian	Mohammadian	Doctorate	Civil Engineering	Turning a liability into an opportunity: sequestering fertilizers from livestock wastes
Parul	Mandal	Doctorate	Horticulture and Natural Resources	Influence of seed coating, soil texture, and irrigation regimes on the cool-season turfgrass establishment.
Ramin	Salehi	Doctorate	Electrical and Computer Engineering	Entropy-Based Quantum Clustering for Radar Anomaly Detection using the DQC1 Model
Salma	Aouam	Masters	Regional and Community Planning	Planning for the FIFA World Cup and Beyond: How Cities Handle Transportation Challenges During Match Days
Saman	Hosseini	Doctorate	Electrical and Computer Engineering	A Data-Parsimonious Model for Long-Term Risk Assessments of West Nile Virus Spillover
Saurav	Pantha	Doctorate	Pathobiology	Sexual dimorphism in metabolic responses to influenza vaccination in a mouse model of diet-induced obesity
Shristy	Budha Magar	Masters	Veterinary Biomedical Science	Sex-specific effects of obesity on fecal microbiota during acute low- and high-dose influenza A virus infection in mice
Shubham	Kumar	Masters	Horticulture and Natural Resources - Urban Food Systems	Effects of Row Covers on Late-Planted Strawberries in Kansas

Simran	Dua	Masters	Biological and Agricultural Engineering	Quantifying emergence uniformity using E-depth system in seeding system
Vikas Kumar	Galipothu	Doctorate	Horticulture and Natural Resources	Developing a UV-C Tunnel to Control Listeria in the Organic Produce Industry
Wagner	Squizani de Arruda	Doctorate	Agronomy	How Agricultural Practices Shape Soil Health and Greenhouse Gas Emissions