SPRING 2023

THE GRADUATE SCHOOL
Dean Aimée M. Surprenant
COLLEGE OF
AGRICULTURE AND LIFE
SCIENCES

Doctor of Philosophy

AGRICULTURAL AND
EXTENSION EDUCATION

Bendfeldt, Eric S.
The Ecotonal Nature of Community Food Work: A Case Study of Trauma-Informed Care and Agential Change Space
Committee Chair: Prof. K. L. Niewolny

Kane, Fatimata
Culturally Responsive, Indigenous, and Decolonizing Methodologies for Youth Participatory Evaluation of Agricultural Youth Development Program in Senegal
Committee Chair: Prof. T. G. Archibald

Petrie, Lana
A Mixed-method Approach of Exploring the Ways Food Access Impacts the Quality of Life of College of Agriculture and Life Science Students at Virginia Tech
Committee Chair: Prof. R. D. Rudd

Kinstler, Sydney Regan
Effects of Necrotic Enteritis Pathogens and Genetics on Intestinal Stem Cells and Developmental Pathways in Broiler Chickens
Committee Chair: Prof. E. A. Wong and Prof. J. J. Maurer

McFadden, Taylor Marie
Epigenetic and Ubiquitin-Proteasome Mechanisms of Obesity Development
Committee Chair: Prof. T. Jarome

Murray, Adam Riley
Pasture-Based Strategies for Growing and Finishing Beef Cattle
Committee Chair: Prof. T. B. Wilson

Pancini, Stefania
Use of Nutrition and Precision Technology to Improve Health, Performance, and Alleviate Stress of Beef Cattle
Committee Chair: Prof. V. R. Mercadante

Speckhart, Savannah Laurel
Interleukin-6 and its Contribution to Embryogenesis in Cattle
Committee Chair: Prof. A. D. Ealy

ANIMAL AND POULTRY SCIENCES

Campbell, Andrew Michael
Happy Chickens: Novel Physiological and Behavioral Measures of Cumulative Experience in Broilers and Laying Hens
Committee Chair: Prof. L. Jacobs

Imaduwa Wickrama Acharige, Sathya Sujani
Alternative Analytical and Experimental Procedures to Explore Rumen Dynamics as Driven by Nutrient Supplies
Committee Chair: Prof. R. White

ANIMAL SCIENCE, DAIRY

Alward, Kayla J.
Photoperiod and Temperature-Humidity Index (THI) during the Dry-Period Impact Colostrum and Milk Production in Dairy Cattle
Committee Chair: Prof. R. Cockrum
BIOCHEMISTRY
Liu, Jiapeng
Functional Characterization of Serine Hydrolases Mediating Lipid Metabolism and Protein Depalmitoylation in Asexual Stage Plasmodium Falciparum
Committee Chair: Prof. M. W. Klemba

Wynne, Nicole Elizabeth
Variations in Time-dependent Mosquito-host Interactions Across Aedes Species
Committee Chair: Prof. C. Vinauger Tella

CROP AND SOIL ENVIRONMENTAL SCIENCES
Aryal, Pabitra
Developing Site Assessment Tool and Production Techniques for Ramps in Appalachia
Committee Chair: Prof. J. H. Fike

Dhakal, Kshitiz
Application of Machine Learning and Hyperspectral Imaging in Plant Phenomics Research
Committee Chair: Prof. S. Li

Podder, Swarup
Industrial Hemp for Grain, Fiber and Forage
Committee Chair: Prof. J. H. Fike

Pokhrel, Sapana
Cover Cropping: A Strategy to Healthy Soil and Nitrogen Management in Corn
Committee Chair: Prof. R. O. Maguire

ECONOMICS
Ferris, William Newell
Multi-Objective Regulatory Compliance: Topics in Environmental and Development Economics
Committee Chair: Prof. S. K. Stephenson

ENTOMOLOGY
Ohlinger, Bradley David
Drinking from the Magic Well: Studies on Honey Bee Foraging, Recruitment, and Sublethal Stress Responses Using Waggle Dance Analysis
Committee Chair: Prof. M. J. Couvillon and Prof. R. Schuerch

Porier, Danielle LaBrie
Developing a Novel, Safe, and Effective Platform for Generating Flavivirus Vaccines
Committee Chair: Prof. A. J. Auguste

FOOD SCIENCE AND TECHNOLOGY
Calvert, Martha Dianne
Appeal of the Apple: Investigating Preference, Perception, and Communication Around Hard Cider in the Northeast and Mid-Atlantic United States
Committee Chair: Prof. J. Lahne

Murphy, Claire Margaret
Factors Influencing the Ecology and Epidemiology of Microbial Indicators and Foodborne Pathogens in Surface Waters and Development of Risk Mitigations
Committee Chair: Prof. L. K. Strawn
HORTICULTURE

Li, Qi
Maize R Gene Rxo1 Confers Disease Resistance on Pepper and Nicotiana benthamiana
Committee Chair: Prof. B. Zhao

HUMAN NUTRITION, FOODS AND EXERCISE

Howes, Erica Marie
The Impact of Weight Bias and Stigma on Energy Misreporting in 24-Hour Dietary Recalls
Committee Chair: Prof. V. E. Hedrick

Liebe, Rachel Antoinette
Exploring the Relationship Between Food Security Status and Mental Health Among SNAP-Eligible Virginia Mothers
Committee Chair: Prof. S. A. Misyak

Parker, Molly Kathryn
Development and Evaluation of the Planetary Health Diet Index for the United States and Assessment of Dietary Constructs Associated with Sustainability
Committee Chair: Prof. V. E. Hedrick

Pourkhalili, Azin
Effect of Program Implementation Fidelity on Outcomes of the Lifestyle Change Program Conducted Through Distance Learning by Cooperative Extension
Committee Chair: Prof. C. Rafie

Thomson, Alexander Hugh
Novel Diagnostic Approaches for Genetic and Environmental Sources of Mitochondrial Dysfunction
Committee Chair: Prof. J. C. Drake

PLANT PATHOLOGY, PHYSIOLOGY AND WEED SCIENCE

Heminger, Ariel Renee
Impact of Spatial Distance and Pollinators on Floral and Fruit Bacterial Communities of Solanum carolinense
Committee Chair: Prof. D. C. Haak

Laliberte, Suzanne Rae
Epigenetic Responses of Arabidopsis to Abiotic Stress
Committee Chair: Prof. J. H. Westwood and Prof. D. C. Haak

COLLEGE OF ARCHITECTURE, ARTS, AND DESIGN

ARCHITECTURE AND DESIGN RESEARCH

Al Mohannadi, Maryam
Understanding the Meanings of Built Environment Within Urban Educational Environments: A Critical Analysis of the Qatar University Campus
Committee Chair: Prof. P. F. Emmons

Hankins, Francesca A.
The Poetic Architect: A Phenomenological Imaginative Journey Of Bruce Goff’s Bavinger House
Committee Chair: Prof. M. Feuerstein

Isbilen, Ezgi
Universalism and Its Discontents: Konrad Wachsmann’s 20th Century Architecture
Committee Chair: Prof. P. F. Emmons
Jalali, Mansoureh Sadat
Development of a New Architectural Design Framework That Supports Occupants' Healthy Circadian Rhythm in Interior Spaces
Committee Chair: Prof. J. R. Jones and Prof. R. B. Gibbons

Li, Dan
Sustainability in Design Education: A Mixed Methods Approach for Exploring Sustainability Teaching and Understanding in Landscape Architecture
Committee Chair: Prof. C. L. Bohannon and Prof. M. Kim

PAMPLIN COLLEGE OF BUSINESS
BUSINESS, ACCOUNTING AND INFORMATION SYSTEMS
DiYorio, Jonathan Gabriel
Audit Office Closure Risk and Audit Outcomes
Committee Chair: Prof. L. Tan and Prof. A. A. Acito

Wolfe, Karneisha Tiye
The Unintended Effects of Core Audit Teams' Review of Centralized Audit Teams' Work
Committee Chair: Prof. S. Bhattacharjee

Zhang, Zhenyu
Institutional Investor Cliques Information Dissemination, and the Value of Information: Evidence from Insider Trading
Committee Chair: Prof. R. H. Davidson

BUSINESS, BUSINESS INFORMATION TECHNOLOGY
Brown, Nicholas James
Beyond Privacy Concerns: Examining Individual's Interest in Privacy in the Machine Learning Era
Committee Chair: Prof. Q. J. Nottingham and Prof. P. B. Lowry

BUSINESS, EXECUTIVE BUSINESS RESEARCH
Bonetti, Beatriz Lopez
Committee Chair: Prof. M. Pandelaere

BUSINESS, HOSPITALITY AND TOURISM MANAGEMENT
Bianco, Simone
A Study of Resource-Based Market Entry Strategies in the Hotel Industry
Committee Chair: Prof. M. Singal and Prof. F. Zach

Kim, Hyoeun
Individual Skill Flexibility and Turnover: Empirical Evidence from Hotel Employees
Committee Chair: Prof. J. L. Nicolau Gonzalbez

Raad, James Elias
The Journey from Supplier to End Customer: Exploring the Dynamics of Supply Chain and Distribution Channels in the Hospitality Industry
Committee Chair: Prof. J. L. Nicolau Gonzalbez
**BUSINESS, MANAGEMENT**

Jin, Ju hyeong
Knowledge Problems and Entrepreneurial Strategy
Committee Chair: Prof. D. Townsend

Manocha, Parul
Heterogeneous Entrepreneurial Action: A Knowledge Problem Approach
Committee Chair: Prof. D. Townsend and Prof. R. A. Hunt

**BUSINESS, MARKETING**

Kim, Myojoong
To Acquire or Not to Acquire? That is a Question of Ownership Language and Dispositional Greed
Committee Chair: Prof. M. Pandelaere

Lai, Yuhang
Fostering a More Sustainable World through Reduce, Reuse, and Recycle: The Role of Perceived Value in a Circular Economy
Committee Chair: Prof. R. Bagchi

**COLLEGE OF ENGINEERING**

**AEROSPACE ENGINEERING**

Acharya, Aditya Sudhindra
Aerodynamic Interactions in Vortex Tube Separator Arrays
Committee Chair: Prof. W. Ng and Prof. K. T. Lowe

Borwankar, Pranav Sanjay
Multidisciplinary Design Optimization of Composite Spacecraft Structures using Lamination Parameters and Integer Programming
Committee Chair: Prof. R. K. Kapania

Gargiulo, Aldo
Direct Assessment and Investigation of Nonlinear and Nonlocal Turbulent Constitutive Relations in Three-Dimensional Boundary Layer Flow
Committee Chair: Prof. K. T. Lowe and Prof. C. J. Roy

Gobin, Bradley Scott
Exploration and Development of Electrically Controllable Gel and Solid Propellants
Committee Chair: Prof. G. Young

Hassani, Ali
Uncertainty Quantification of Tightly Integrated LiDAR/IMU Localization Algorithms
Committee Chair: Prof. M. Joerger

Higgins, Erik Tracy
Machine Learning and Data Fusion of Simulated Remote Sensing Data
Committee Chair: Prof. L. J. Freeman and Prof. E. G. Paterson

Husser, Nicholas Alexander
Experimental and Numerical Investigation of Forward and Aft Swept Stepped Planing Hulls in Calm Water and Regular Waves
Committee Chair: Prof. S. Brizzolara

Krier, Christopher Scott
Observations of Non-Migrating Tides in the Middle Thermosphere
Committee Chair: Prof. S. L. England

Li, Yuzhi
The Effects of Collisions on Plasma-sheath Transition
Committee Chair: Prof. B. Srinivasan

Miller, Lakshmi Madhavan
CFD-informed Lumped Parameter Models Result In High-Fidelity Maneuvering Predictions of AUVs
Committee Chair: Prof. S. Brizzolara
Olshefski, Kristopher Thomas  
Development of Diagnostic Tools for Use in a Gas Turbine Engine Undergoing Solid Particulate Ingestion  
Committee Chair: Prof. W. Ng and Prof. K. T. Lowe  

Powers, Sean William  
Filtered Rayleigh Scattering with an Application to Force Component Decomposition  
Committee Chair: Prof. J. A. Schetz and Prof. K. T. Lowe  

Simmons, Benjamin Mason  
Advances in Aero-Propulsive Modeling for Fixed-Wing and eVTOL Aircraft Using Experimental Data  
Committee Chair: Prof. C. A. Woolsey and Prof. C. A. Woolsey  

Spicer, Randy Lee  
Additive Manufacturing in Spacecraft Design and In-Space Robotic Fabrication of Large Structures  
Committee Chair: Prof. J. T. Black  

Squibb, Carson Owen  
Investigation of Polymer-Filled Honeycomb Composites with Applications as Variable Stiffness Morphing Aircraft Structures  
Committee Chair: Prof. M. K. Philen  

Zafar, Muhammad-Irfan  
Machine Learning Approaches to Data-Driven Transition Modeling  
Committee Chair: Prof. M. M. Choudhari and Prof. H. Xiao  

**BIOLOGICAL SYSTEMS ENGINEERING**  

Genedy, Rana Ahmed Kheir  
Integrating Machine Learning and Process-based Modeling to Predict Ammonia Losses from Stored Liquid Dairy Manure  
Committee Chair: Prof. J. A. Ogejo  

Patton, Hannah Elisabeth  
The Effectiveness of Point-of-Use Treatment in Improving Home Drinking Water Quality in Rural Households  
Committee Chair: Prof. L. H. Krometis and Prof. E. A. Sarver  

**BIOMEDICAL ENGINEERING**  

Aycock, Kenneth N.  
Improvements in Pulse Parameter Selection for Electroporation-Based Therapies  
Committee Chair: Prof. R. V. Davalos  

Bianco, Samuel Thomas  
Investigating the Thoracic Biomechanical Responses of Rear Seated 50th Percentile Male Anthropomorphic Test Devices and Post Mortem Human Surrogates During Frontal Motor Vehicle Collisions  
Committee Chair: Prof. A. R. Kemper  

Chan, Hana  
Occupant Responses of Relaxed and Braced 5th Percentile Female and 50th Percentile Male Volunteers during Low-Speed Frontal and Frontal-Oblique Sled Tests  
Committee Chair: Prof. A. R. Kemper  

Dean, Morgan Elizabeth  
Applications of Event Data Recorder Derived Crash Severity Metrics to Injury Prevention  
Committee Chair: Prof. M. E. Dean and Prof. Z. R. Doerzaph  

Donaldson, Kandace E.  
Ex Vivo Deformations of the Uterosacral Ligaments  
Committee Chair: Prof. R. De Vita
Guettler, Allison Jean
Submarining and Abdominal Injury for Rear-Seated Mid-Size Males during Frontal Crashes
  Committee Chair: Prof. W. N. Hardy

Khan, Zerin Mahzabin
Development of an Injectable Hydrogel Platform to Capture and Eradicate Glioblastoma Cells with Chemical and Physical Stimuli
  Committee Chair: Prof. S. Verbridge

Meduri, Chitra
Focused Ultrasound Methods for the Treatment of Tendon Injuries
  Committee Chair: Prof. V. M. Wang

Norris, Caroline Nicole
The Influence of Biomechanics on Acute Spatial and Temporal Pathophysiology Following Blast-Induced Traumatic Brain Injury
  Committee Chair: Prof. P. VandeVord

Ruger, Lauren Nicole
Investigations of Ultrasound-Guided Histotripsy Ablation for Soft Tissue Sarcomas, Osteosarcomas, and Brain Tumors
  Committee Chair: Prof. E. Vlaisavljevich

Teater, Michael Anthony
The Impact of Sex, Anterior Cruciate Ligament Reconstruction, and Sport-specific, Game-like Factors on Limb Stiffness and Limb Stiffness Asymmetry during Landing
  Committee Chair: Prof. R. M. Queen

CHEMICAL ENGINEERING

Albrahim, Malik Ali M.
Reconstruction of Rhodium Clusters During CO Oxidation and Consequences on the Reaction Mechanism
  Committee Chair: Prof. A. M. Karim

Behzadinasab, Saeed
Development of Antimicrobial Coatings
  Committee Chair: Prof. W. A. Ducker

Han, Xue
Electrochemical Carbon Dioxide Reduction for Renewable Carbonaceous Fuels and Chemicals
  Committee Chair: Prof. H. Xin and Prof. H. Zhu

Mou, Tianyou
Understanding Interfacial Kinetics of Catalytic Carbon Dioxide Transformations from Multiscale Simulations
  Committee Chair: Prof. H. Xin

CIVIL ENGINEERING

Abolfazli, Ehsan
Laboratory Experiments on Mud Flocculation Dynamics in the Fluvial and Estuarine Environments
  Committee Chair: Prof. K. B. Strom

Abu-Saymeh, Riham Khraiwish
Modeling the Impact of Flood Pulses on Disease Outbreaks in Large Water Basins with Scarc Data
  Committee Chair: Prof. J. C. Little and Prof. K. A. Alexander

Ahmed, Md Tofail
Strength and Ductility of Concrete Cylinders Confined with Fiber Metal Laminate Composites
  Committee Chair: Prof. E. J. Jacques
Aliasghar Mamaghani, Mojtaba
Computational Simulation of Chloride-Induced Corrosion Damage in Prestressed Concrete Bridge Girders
Committee Chair: Prof. I. Koutromanos

Ao, Yufei
Quantifying the Linkages Between America's Water Resources and its Production of Food, Energy, and Water
Committee Chair: Prof. L. T. Marston

Baugher, Brooke Erin
Causes and Consequences of International Engineering Programs in Higher Education
Committee Chair: Prof. E. W. Shealy III

Blair, Matthew Forrest
Profiling of Microbial Communities, Antibiotic Resistance, Functional Genes, and Biodegradable Dissolved Organic Carbon in a Carbon-Based Potable Water Reuse System
Committee Chair: Prof. A. J. Pruden-Bagchi

Brilli, Nicola Carmine
Influence of Geotechnical Properties on Sediment Dynamics, Erodibility, and Geomorphodynamics in Coastal Environments Based on Field Measurements
Committee Chair: Prof. N. Stark

Costello, Ryan Patrick
Development and Evaluation of System Dynamics Education Modules for Complex Socio-environmental Systems
Committee Chair: Prof. J. C. Little

Cullom, Abraham Charles
Residual Disinfectants, Opportunistic Pathogens, and Antibiotic Resistance in In-building Plumbing: Limitations, Risks, and Best Practices of Control Strategies
Committee Chair: Prof. A. J. Pruden-Bagchi

Gnegy- Spencer, Mariah Ann
Impact of a Barrier on Transport of Particles and Aerosolization of Viruses at a Wastewater Treatment Plant
Committee Chair: Prof. L. C. Marr and Prof. A. J. Pruden-Bagchi

Islam, Md Raful
Development of a Trajectory Population Data and its Application in CAV Research
Committee Chair: Prof. K. Hancock

Ju, Hwanik
Influences of Curing Conditions and Organic Matter on Characteristics of Cement-treated Soil for the Wet Method of Deep Mixing
Committee Chair: Prof. S. A. Motaleb Abdelaziz

Kriss, Rebecca Boyce
Addressing Gaps in the US EPA Lead and Copper Rule: Developing Guidance and Improving Citizen Science Tools to Mitigate Corrosion in Public Water Systems and Premise Plumbing
Committee Chair: Prof. M. A. Edwards

Liguori, Krista Margaretta
A Framework for Standardized Monitoring of Antibiotic Resistance in Aquatic Environments and Application to Wastewater, Recycled Water, Surface Water, and Private Wells
Committee Chair: Prof. A. J. Pruden-Bagchi

Maile-Moskowitz, Ayella Zorka
Shotgun Metagenomic Analysis of Antimicrobial Resistance in Wastewater
Committee Chair: Prof. P. J. Vikesland and Prof. A. J. Pruden-Bagchi
Nguyen, Anh Chi
Risk Allocation, Decision Rights, and Adaptive Lifecycle Project Management Practices in Public-Private Partnership Highway Contracts in Australia, the Philippines, and India
   Committee Chair: Prof. M. J. Garvin

Prieto Estrada, Andres Eduardo
Modeling the Dissolution of Immiscible Contaminants in Groundwater for Decision Support
   Committee Chair: Prof. M. A. Widdowson

Rahman, Asifur
Sustainable Nanomaterials Combined with Raman Spectroscopy-based Techniques to Advance Environmental Sensing
   Committee Chair: Prof. P. J. Vikesland

Zeinali, Seyed Morteza
Multi-Scale Thermo-Hydro-Mechanical Behavior of Saturated Earth Materials
   Committee Chair: Prof. S. A. Motaleb Abdelaziz

COMPUTER ENGINEERING

AlBahar, Badour A. Sh A.
Controllable Visual Synthesis
   Committee Chair: Prof. A. L. Abbott and Prof. J. Huang

Albahar, Hadeel Ahmad
Optimizing Systems for Deep Learning Applications
   Committee Chair: Prof. A. Butt

Bockenek, Joshua Alexander
Low-Level Static Analysis for Memory Usage and Control Flow Recovery
   Committee Chair: Prof. B. Ravindran

Mehrab, A K M Fazla
On Improving the Security of Virtualized Systems through Unikernelized Driver Domain and Virtual Machine Monitor Compartmentalization and Specialization
   Committee Chair: Prof. B. Ravindran

Ramanathan, Madhava Krishnan
Exploring the Boundaries of Operating System in the Era of Ultra-fast Storage Technologies
   Committee Chair: Prof. C. Min

Sung, Mincheol
   Committee Chair: Prof. B. Ravindran

Tolley, Joseph Daniel
Trust, Security and Optimization of Wireless Cognitive Radio Networks and Spectrum Access Systems
   Committee Chair: Prof. C. B. Dietrich, Jr. and Prof. C. D. Patterson

Wang, Ning
Building Trustworthy Machine Learning Systems in Adversarial Environments
   Committee Chair: Prof. Y. T. Hou and Prof. W. Lou

COMPUTER SCIENCE AND APPLICATIONS

Al Drees, Asma Ayed S.
Promoting Universal Access to E-government Services - A Comprehensive Conceptual Framework from Citizens’ Perspective
   Committee Chair: Prof. D. Gracanin
Bu, Jie
Achieving More with Less: Learning Generalizable Neural Networks With Less Labeled Data and Computational Overheads
Committee Chair: Prof. A. Karpatne

Choudhary, Nurendra
Multimodal Representation Learning for Textual Reasoning over Knowledge Graphs
Committee Chair: Prof. C. K. Reddy

Elhamod, Mohannad
Understanding the Effects of Incorporating Scientific Knowledge on the Neural Network Loss Landscapes and Outputs
Committee Chair: Prof. A. Karpatne

Guo, Zhen
Understanding and Combating Online Social Deception
Committee Chair: Prof. J. Cho

Lu, Feiyu
Glanceable AR: Towards a Pervasive and Always-On Augmented Reality Future
Committee Chair: Prof. D. A. Bowman

Tasooji, Reza
Exploring the Impact of Labeling on Psychophysiological Response Analysis Using Deep Learning
Committee Chair: Prof. D. Gracanin and Prof. R. B. Knapp

Youssef, Karim Yasser Mohamed Yousri
Scalable and Productive Data Management for Deep Memory Hierarchies in High-Performance Computing
Committee Chair: Prof. W. Feng

Zhang, Da
Memory Turbo Boost: Architectural Support for Using Unused Memory for Memory Replication to Boost Server Memory Performance
Committee Chair: Prof. X. Jian

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**ELECTRICAL ENGINEERING**

Abd-Elmagid, Mohamed Abd-Elaziz
Age of Information: Fundamentals, Distributions, and Applications
Committee Chair: Prof. H. Dhillon

Ahmed, Ahmed Salah Nabih
Design and Integration Techniques for High-Frequency PCB-Based Magnetics in LLC Resonant Converters
Committee Chair: Prof. Q. Li

Biggs, Benjamin Adams
Robotic Search Planning in Large Environments with Limited Computational Resources and Unreliable Communications
Committee Chair: Prof. D. J. Stilwell

Chaccour, Christina
Building the Foundations and Experiences of 6G and Beyond Networks: A Confluence of THz Systems, Extended Reality (XR), and AI-Native Semantic Communications
Committee Chair: Prof. W. Saad

Gadelrab, Rimon Guirguis Said
PCB-Based Heterogeneous Integration of LLC Converters
Committee Chair: Prof. F. C. Lee

Heintzman, Larkin Lee
Scalable Multi-Agent Systems in Restricted Environments
Committee Chair: Prof. R. K. Williams

Hsieh, Hsin-Che
Single-Stage Wireless Power Transfer System with Single-Switch Secondary Side Modulation
Committee Chair: Prof. J. S. Lai

Lee, Lung-An
Microgrid as a Cyber-Physical System: Dynamics and Control
Committee Chair: Prof. C. Liu
Li, Lianjun
Online Machine Learning for Wireless Communications: Channel Estimation, Receive Processing, and Resource Allocation
Committee Chair: Prof. L. Liu

Phukan, Ripunjoy
Design of High-Density Filter Building Blocks for Silicon Carbide (SiC) based Three-Phase Power Converters
Committee Chair: Prof. R. Burgos and Prof. D. Dong

Ravi, Lakshmi
Insulation-Constrained Design of Power Electronics Converters and DC Circuit Breakers
Committee Chair: Prof. R. Burgos and Prof. D. Dong

Thornton, Charles E.
On the Value of Online Learning for Cognitive Radar Waveform Selection
Committee Chair: Prof. R. M. Buehrer

Wang, Shuo
PCB-Based Heterogeneous Integration of PFC/Inverter
Committee Chair: Prof. F. C. Lee

Zhu, Feiyang
Investigation of Multiphase Coupled Inductor Structures for Point-of-Load Applications
Committee Chair: Prof. Q. Li

ENGINEERING EDUCATION
Blackowski, Sarah Anne
Faculty as Learners: Exploring EarlyCareer Engineering Faculty Narratives about Teaching Professional Development Through the Lens of Self Regulated Learning
Committee Chair: Prof. H. Matusovich

Goldschneider, Benjamin Jared
The Journey of Becoming and Belonging: A Longitudinal Exploration of Socialization's Impact on STEM Students' Sense of Belonging
Committee Chair: Prof. N. Pitterson

Ketchum, Qualla Jo
Walking Between Two Worlds: Indigenous Student Stories of Navigating the Structures & Policies of Public, Non-Native Institutions
Committee Chair: Prof. M. C. Paretti and Prof. H. G. Murzi Escobar

Lightner, Taylor Courtney
A Multiple Case Narrative Analysis of Sociopolitical Development: Exploring the Career Journeys of Engineers
Committee Chair: Prof. W. C. Lee, Jr. and Prof. J. S. London

Richardson, Amy Jo
Credit Loss for Engineering Transfer Students: In-depth Analyses and Visualizations of Patterns Across Students and Structures
Committee Chair: Prof. D. B. Knight

ENGINEERING MECHANICS
Afanasyev, Alexander
An Approach to Interpreting and Predicting Force-extension Curves of Nucleic Acids
Committee Chair: Prof. A. Onufriev

Fitzgerald, Joshua T.
Dynamical Geometry of the Restricted Three Body Problem
Committee Chair: Prof. S. D. Ross

Gangi, Michael Joseph
Scale Modeling of Tests with Combined Thermo-Structural Loading
Committee Chair: Prof. S. W. Case and Prof. B. Y. Lattimer
Grindle, Daniel Mark
Protection of Standing and Seated Pedestrians Using Finite Element Analysis
Committee Chair: Prof. C. D. Untaroiu

Imhof, Aleksander Nicholas
A Unified Macroscale Model of Magnetostriction
Committee Chair: Prof. J. P. Domann

Lane, Ryan Jeffrey
Experimental and Computational Micromechanics of Aluminum Cerium Alloys and Selective Laser Melted 316L Stainless Steel
Committee Chair: Prof. J. C. Duke, Jr.

Masroor, Syed Emad
Vortex Dynamics and Forces in the Laminar Wakes of Bluff Bodies
Committee Chair: Prof. M. A. Stremler

ENVIRONMENTAL DESIGN AND PLANNING

Gonsalves, Nihar James
Understanding Underlying Risks and Socio-technical Challenges of Human-Wearable Robot Interaction in the Construction Industry
Committee Chair: Prof. A. A. Akanmu

Qin, Yimin
Evaluating Mental Workload for AR Head-Mounted Display Use in Construction Assembly Tasks
Committee Chair: Prof. T. Turkaslan Bulbul

INDUSTRIAL AND SYSTEMS ENGINEERING

Bloomquist, Eric Tait
Improving Accessibility of Fully Automated Driving Systems for Blind and Low Vision Riders
Committee Chair: Prof. J. L. Gabbard, Jr. and Prof. Z. R. Doerzaph

Chung, Jihoon
Machine Learning for Process Monitoring and Control in Advanced Manufacturing Processes
Committee Chair: Prof. Z. Kong

Greatbatch, Richard Leslie
Takeover Required! Augmented Reality Head-Up Displays' Ability to Increase Driver Situation Awareness During Takeover Scenarios in Driving Automation Systems
Committee Chair: Prof. J. L. Gabbard, Jr.

Maftouni, Maede
Development of Novel Attention Aware Deep Learning Models and their Applications in Computer Vision and Dynamical System Calibration
Committee Chair: Prof. Z. Kong

Tilashalski, Melissa Christine
Location Distributions Influence on the Vehicle Routing Problem
Committee Chair: Prof. K. P. Ellis

Upasani, Satyajit Abhay
Characterizing Mental Workload in Physical Human-Robot Interaction Using Eye-Tracking Measures
Committee Chair: Prof. J. L. Gabbard, Jr. and Prof. D. Srinivasan
Wang, Rongxuan
Multi-Physics Sensing and Real-time Quality Control in Metal Additive Manufacturing
Committee Chair: Prof. Z. Kong

MATERIALS SCIENCE AND ENGINEERING

Carlson, Eric Paul
Low Carbon n-GaN Drift Layers for Vertical Power Electronic Devices
Committee Chair: Prof. W. T. Reynolds, Jr.

French, Jarin Collins
Molecular Dynamics Studies of Intrinsic and Extrinsic Grain Boundary Mobilities in UO2 and UMo Alloys
Committee Chair: Prof. X. Bai

Hammack, Cody Wade
Theory of Operating Characteristics of Quantum Dot Lasers with Asymmetric Barrier Layers
Committee Chair: Prof. L. V. Asryan

Shirey, Kaitlyn Ann
The Role of Porosity and Architecture on the Properties of Titanium Diboride Tapes
Committee Chair: Prof. C. Tallon Galdeano

MECHANICAL ENGINEERING

Agrawal, Arpit Kumar
Mechanics, Design, and Fabrication of Metal-Graphene Composites
Committee Chair: Prof. S. Shahab

Aradhey, Yogesh Sachin
Dynamics of Lean Direct Injection Systems
Committee Chair: Prof. J. Meadows

Barbish, Johnathon Richard
Dynamics of Small Elastic Systems in Fluid: Tension and Nonlinearity
Committee Chair: Prof. M. R. Paul

Charleston, Jonathan
Design, Fabrication, and Characterization of Metals Reinforced with Two-Dimensional (2D) Materials
Committee Chair: Prof. M. D. Bartlett

Chen, Hongshun
Multiscale Structures and Mechanics of Biomineralized Lattices in Hexactinellid Sponges and Echinoderms
Committee Chair: Prof. L. Li

Hasan, Md Mahmudul
Computational and Machine Learning-Reinforced Modeling and Design of Materials under Uncertainty
Committee Chair: Prof. P. Acar

Motaharibidgoli, Seyedmostafa
Generating Traveling Waves in Finite Media Using Single-point Excitation via Passive Absorber
Committee Chair: Prof. P. A. Tarazaga

Senthilnathan, Arulmurugan
Exploring the Stochastic Performance of Metallic Microstructures with Multi-scale Models
Committee Chair: Prof. P. Acar

Stewart, Colin James
Numerical Investigations of Jellyfish Propulsion
Committee Chair: Prof. D. K. Tafti and Prof. S. Priya

Titus Glover, Kyle Ian Kwartei
The Development of Autonomous Systems for Reverse Osmosis Membrane Cleaning
Committee Chair: Prof. J. J. Lesko
Wong, Steven
Quantifying Burning, Heat Transfer, and Material Ignition of Smoldering Firebrand Piles
Committee Chair: Prof. B. Y. Lattimer and Prof. T. E. Diller

Zhang, Ce
Autonomous Vehicle Sensor Perception Quality Assessment
Committee Chair: Prof. A. Eskandarian

MINING ENGINEERING
Li, Qi
Recovering Critical Elements from Acid Mine Drainage
Committee Chair: Prof. W. Zhang

Liu, Wei
Rare Earth Extraction from Clayey Waste Materials by Alkali Pretreatment
Committee Chair: Prof. R. H. Yoon

Schlosser, Charles Stewart
Predicting the Dynamics of Injection-Induced Earthquakes
Committee Chair: Prof. N. S. Ripepi

Sechrist, Chad Michael
Development and Testing of a Mobile Pilot Plant for the Advancement and Scale-up of the Hydrophobic-Hydrophilic Separation Process
Committee Chair: Prof. C. A. Noble

NUCLEAR ENGINEERING
Hurley, Paul Raymond
Density-Wave Instability Characterization in Boiling Water Reactors under MELLLA+ Domain during ATWS
Committee Chair: Prof. J. Pacheco Duarte

COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES
COUNSELOR EDUCATION
Westcott, Jordan Bailor
Access to Health Care at the Margins: Implications for Older Sexual Minority Women with Disabilities
Committee Chair: Prof. M. C. Fullen

CURRICULUM AND INSTRUCTION
Alduwairej, Monerah Abdulrahman
Determining Factors and Challenges Influencing Faculty Members to Adopt Online Teaching at Multiple Saudi Arabia Universities
Committee Chair: Prof. K. R. Potter

Altimus, Jewel L.
Fostering Computer Science Career Interest in Fifth-Grade Students
Committee Chair: Prof. B. D. Bowen

Clark, Rebecca Michelle
Engineering Uncertainty: A Framework for Argumentation in Socioscientific Ill-structured Problem Solving
Committee Chair: Prof. B. B. Lockee

Kambach, Anna Elizabeth
Emerging Readers and Inferential Comprehension with Wordless Narrative Picturebooks: An Intervention Study
Committee Chair: Prof. P. E. Doolittle

Millner, Gerald Maronda
Levels of Virginia Tech Graduate Student Perceived Connectedness Across Different Modes of Online Learning: Association to Student Perceived Learning and Retention
Committee Chair: Prof. Y. Miyazaki and Prof. J. S. Mukuni
Motley, Kenya Mahogany
Culturally Responsive Pedagogy: A First-Year Teacher's Experience
Committee Chair: Prof. B. S. Billingsley and Prof. M. B. Weaver-Hightower

Sanchez Robayo, Brigitte Johana
Predictors of Positive Change in Teaching Practices. A Quantitative Study
Committee Chair: Prof. J. L. Wilkins

EDUCATIONAL LEADERSHIP AND POLICY STUDIES

Owensby, Victoria Gould
Identification Methods That Achieve Parity for Students Underrepresented in Gifted and Talented Programs in Virginia
Committee Chair: Prof. G. I. Earthman and Prof. T. S. Price

EDUCATIONAL RESEARCH AND EVALUATION

Kapania, Madhu Bala
Student Satisfaction, Perceived Employability Skills, and Deep Approaches to Learning: A Structural Equation Modeling Analyses
Committee Chair: Prof. G. E. Skaggs and Prof. J. S. Savla

Kline, Jade Marie
Perceptions of Quality Among Undergraduate Students in Online Courses: A Community of Inquiry Framework Approach to Quality in Higher Education
Committee Chair: Prof. D. J. Kniola

Krost, Kevin Andrew
Comparison of the Item Response Theory with Covariates Model and Explanatory Cognitive Diagnostic Model for Detecting and Explaining Differential Item Functioning
Committee Chair: Prof. G. E. Skaggs

HIGHER EDUCATION

Anderson, Ian James
Latter-day Saint Undergraduate Students’ Interfaith Engagement: A Post-Intentional Phenomenological Study
Committee Chair: Prof. C. K. Robbins

Burns, Emily Marie
I Am Me. (Elle): Narratives of Disabled College Students’ Interpersonal Experiences with Campus Community Members
Committee Chair: Prof. D. J. Catalano

Cotrupi, Catherine Lynn
White Faculty Members Resisting White Supremacy Culture in Service Learning and Community Engagement: A Critical Narrative Analysis
Committee Chair: Prof. C. K. Robbins

Huggins de Murzi, Natali Carolina
Historically Marginalized Engineering Doctoral Students' Motivation and Socialization in Graduate Education
Committee Chair: Prof. H. Matusovich and Prof. T. B. Lane

Johnson, Nicole J.
I Am Gonna Let You Make It: Personal Identity of Black Women Doctoral Students
Committee Chair: Prof. C. K. Robbins
HUMAN DEVELOPMENT

Beers, Candy Lynn
Maternal Socialization and Anti-racism
Mothering: A Grounded Theory
  Committee Chair: Prof. A. L. Few-Demo

Cooke, Stephanie Cheyenne
  Committee Chair: Prof. A. L. Few-Demo

Scott-Poe, Deneisha Shane'
Let's Come Together: An Intersectionality-Informed Grounded Theory Analysis of How African American Daughters Navigate Family Relationships While Providing Care to a Parent with Alzheimer's Disease
  Committee Chair: Prof. M. L. Dolbin-MacNab

Simpson, Samantha K.
When Identities Collide: Best Practices for Family Therapy with LGBTQ+ Young People in Mormon Families
  Committee Chair: Prof. E. L. Grafsky

PLANNING, GOVERNANCE, AND GLOBALIZATION

Altasan, Ibrahim Abdullah
Urban Policy Mobilities and the Assemblage and Implementation of a Mobilized Urban Planning Policy: The Case of Riyadh's TOD
  Committee Chair: Prof. R. P. Hall and Prof. T. E. Schenk

Davitch, James Michael
A Shield in the Sky: The Vertical Geopolitics of Transcontinental Air Defense
  Committee Chair: Prof. G. Toal

Greanias, George Christopher
Knitting the Velvet Gauntlet
  Committee Chair: Prof. C. Levinson

Ruiz, Jeanette Renee
How Transnational Advocacy Networks Emerge: An Empirical Investigation of a Casualty Recording Network
  Committee Chair: Prof. A. I. Ahram

Seferian, Nareg
Territorial Shock and Fragmented Geopolitical Culture: The New Geography of Armenia and Siunik
  Committee Chair: Prof. G. Toal

Teoman, Denis Can
Travel Behavior of Immigrants in Vienna, Austria: A Mixed-Methods Approach
  Committee Chair: Prof. R. Buehler

PUBLIC ADMINISTRATION/PUBLIC AFFAIRS

Ingram, Laura Maria
Fairness in Dispute: Understanding the Principles of Equity, Equality, and Reciprocity in Federal Procurement Contracting
  Committee Chair: Prof. L. S. Jensen

Tull, Justin Wayne
Time as a Policy Mechanism and Intelligible Principle: An Examination of the National Emergencies Act
  Committee Chair: Prof. M. M. Dull

Yang, Huishan
Organizational Collaborative Motivations and Purpose-oriented Networks: Linking Organizational Theories with Network Characteristics
  Committee Chair: Prof. R. H. Lemaire
RHETORIC AND WRITING
Evans, Amilia Natasha
Possibilities for Making Institutional Change: An Institutional Critique of Diversity Discourse at a Predominantly White Institution
  Committee Chair: Prof. D. Mueller

Wagnon, Michelle Martin
Beyond the Tall, Tall Trees: Exploring Land and Digital Literacy in Rural Appalachia
  Committee Chair: Prof. C. A. Lindgren

SCIENCE AND TECHNOLOGY STUDIES
Brantly, Nataliya Dubchak
Automating Health: The Promises and Perils of Biomedical Technologies for Diabetes Management
  Committee Chair: Prof. R. Hester

Fox, Alice Quinn
The Craft of Violence: A Posthuman Patchwork of Technological Interrelations
  Committee Chair: Prof. A. S. Heflin

Morton, Stephen Gerard
Producing Knowledge about Astronaut Health Risks: Navigating Interdisciplinary Actor-Networks
  Committee Chair: Prof. J. E. Abbate

SOCIAL, POLITICAL, ETHICAL, AND CULTURAL THOUGHT
Briggs, Alexandra Lauren
Affectively Policed, Policing Affect: An Affective-Political Analysis of Deaths at the Hands of U.S. Police in the Last Decade
  Committee Chair: Prof. O. Agozino

Cutter, Linea Lee
Binge-Restrict-Repeat: The Governmentality of Eating Regimes
  Committee Chair: Prof. F. Debrix

Fallon, Jordan Keats
Culinary Man
  Committee Chair: Prof. F. Debrix

Plummer, Sarah E.
Objects in Protest: Bread and Puppet Theater's (Non)Human Solidarities
  Committee Chair: Prof. Z. Ni

Todd, Molly Frances
Borders, Art, and Imagination: Journeys with Mare from the Inside and The Frontera Project
  Committee Chair: Prof. M. O. Stephenson, Jr. and Prof. L. Zanotti

Wenger, Sara Elizabeth
Synthetic Women: Gender, Power, and Humanoid Sex Robots
  Committee Chair: Prof. C. Labuski

SOCIOLGY
Byers, Lyla Elliott Eaton
Mothering Out of Bounds: Inequality and Resistance in Fat Motherhood
  Committee Chair: Prof. A. K. Harrison

Patrick, Anne McNutt
Investigating the Reinforcement of Social Inequality Through the Soyboy Discourse
  Committee Chair: Prof. D. L. Brunsma

Scaptura, Maria Nicole
'No Hard Feelings': Resolving and Redefining Threatened Masculinity Through Sex, Sugar Dating, and Attitudes Toward Violence Against Women
  Committee Chair: Prof. N. M. King
Still, George Robert
The Impact of Cultural and Social Capital on FTIC Student Persistence
Committee Chair: Prof. T. M. Calasanti and Prof. S. Ovink

Ristanti, Eky Yenita
Catechyl-lignin Tissues in Vanilla Orchid and Candlenut: Structure/property Studies
Committee Chair: Prof. C. E. Frazier

COLLEGE OF NATURAL RESOURCES & ENVIRONMENT
FISHERIES AND WILDLIFE

Alonso, Robert Scott
Carnivore Niche Dynamics, Resource Utilization, and Deer Consumption in the Central Appalachian Mountains of Virginia
Committee Chair: Prof. M. J. Kelly

Chandler, Houston Cawthorn
Amphibian and Reptile Conservation in a Changing Environment: Case Studies from the Southeastern United States
Committee Chair: Prof. C. A. Haas and Prof. Y. Jiao

Ganser, Alissa Marie
Investigating the Life History, Demography, and Thermal Tolerances of Rare and Endangered Freshwater Mussels (Bivalvia: Unionidae) in the Upper Tennessee River Basin
Committee Chair: Prof. J. W. Jones and Prof. E. M. Hallerman

GEOSPATIAL AND ENVIRONMENTAL ANALYSIS

Harris, Ryley Capps
A Multi-Scale Remote Sensing Approach for Coastal Policy Monitoring and Targeted Ecosystem Management: Mapping Forest Loss and Understory Structure in the Southeastern Coastal Plain, USA
Committee Chair: Prof. L. M. Kennedy

Islam, Md Sariful
Coastal Erosion Hazard in Bangladesh: Space-time Pattern Analysis and Empirical Forecasting, Impacts on Land Use/Cover, and Human Risk Perception
Committee Chair: Prof. T. W. Crawford

Meadema, Peter Fletcher
Spatial Studies to Support the Management of Long Distance Trails
Committee Chair: Prof. J. L. Marion and Prof. J. F. Wimpey

COLLEGE OF SCIENCE
BIOLOGICAL SCIENCES

Bretz, Kristen Alexandra
Headwater Stream Network Connectivity: Biogeochemical Consequences and Carbon Fate
Committee Chair: Prof. E. R. Hotchkiss

Karcini, Arba
The Cell Membrane Proteome of the SKBR3 Cells and Implications for Targeted Therapies
Committee Chair: Prof. M. I. Lazar

FORESTRY AND FOREST PRODUCTS

Pennino, Amanda
Catchment Structure Regulates Hydrodynamics Drivers of Chemical Weathering in Shallow Forest Soils
Committee Chair: Prof. B. Strahm and Prof. K. J. McGuire
Millican, David Marshall
Trees, Birds, and People: Resource Use and Interspecific Interactions in a Namibian Cavity Nesting Guild
Committee Chair: Prof. J. R. Walters

Moore, Chloe Ellen
From Genes to Species: Characterizing Spatial and Temporal Variation in Multidimensional Frog and Toad Biodiversity
Committee Chair: Prof. M. C. Mims

Plont, Stephen James
Moving Beyond the Stream Reach: Assessing How Confluences Alter Ecosystem Function and Water Quality in Freshwater Networks
Committee Chair: Prof. E. R. Hotchkiss

**CHEMISTRY**

AlMolhim, Hanan Suliman
Optimization of Enantiopure Tetrahydro-2-carbolines as Potent Antimalarials & Exploration of Salicylic Acid Analogs for Combating Multidrug-resistant Neisseria gonorrhoeae
Committee Chair: Prof. P. R. Carlier

Almuzaini, Hanan Nasser
Self-Condensing Ring-Opening Metathesis Polymerization
Committee Chair: Prof. M. Schulz

Bowen, Johnathan
Regio- and Stereoselective Methods for the Borylation of Substituted Alkynes
Committee Chair: Prof. W. Santos

Burgio, Ariel Louise
Fused Heterocycles as Spinster Homolog 2 Inhibitors and Regio- and Stereoselective Copper-Catalyzed Borylation-Protodeboronation of 1,3-Diynes: Access to (Z)-1,3-Enynes
Committee Chair: Prof. W. Santos

Frazier, Graham Owen
Time Dependent Uptake of Volatile Organic Compounds on Silica and the Observation and Quantification of Ambient Sesquiterpenes in Virginia
Committee Chair: Prof. J. R. Morris and Prof. G. Isaacman-VanWertz

Li, Haibo
Further Exploring the Structure Activity Relationship (SAR) of MMV008138 and MMV1803522
Committee Chair: Prof. P. R. Carlier

Novo, Diana Cecilia
Design and Synthesis of Complex and Fluorescent Labeled Cellulose-Based Derivatives for Orally Administered Drug Delivery Systems
Committee Chair: Prof. K. J. Edgar

Scannelli, Samantha Jillian
Ru-mediated Ring-opening Metathesis Polymerization for the Synthesis of Complex Polymer Architectures
Committee Chair: Prof. J. Matson

Spence, Stephanie Leigh
Investigating Chemical and Structural Heterogeneities of High-Voltage Spinel Cathode Material for Li-ion Batteries
Committee Chair: Prof. F. Lin

Zhu, Yumeng
Stimuli-Responsive Peptide-Based Biomaterials: Design, Synthesis, and Applications
Committee Chair: Prof. J. Matson
**ECONOMICS, SCIENCE**

Dorazio, Brian Arthur  
Macroeconomic Forecasting: Statistically Adequate, Temporal Principal Components  
Committee Chair: Prof. A. Spanos

Gu, Yuan  
Essays in Decision Theory  
Committee Chair: Prof. H. H. Haller

**GEOSCIENCES**

Euen, Grant Thomas  
Geodynamic Modeling Applied to Venus  
Committee Chair: Prof. S. D. King

Kligman, Ben Thomas  
Rise of Present-day Tetrapods in the Paleotropics of Late Triassic Equatorial Pangaea: New Insights from Microvertebrate Data  
Committee Chair: Prof. M. Stocker

Sherpa, Sonam Futi  
Big Remote Sensing Data and Machine Learning for Assessing 21st Century Flooding and Socioeconomic Exposures  
Committee Chair: Prof. M. Shirzaei

**MATHEMATICS**

Baker, Jonathan Peter  
Vibrations of Mechanical Structures: Source Localization and Nonlinear Eigenvalue Problems for Mode Calculation  
Committee Chair: Prof. M. P. Embree

Garcia Hilares, Nilton Alan  
Mathematical Modeling and Dynamic Recovery of Power Systems  
Committee Chair: Prof. M. P. Embree

**PHYSICS**

Yao, Hong  
Some Aspects of Fluctuation Driven Phenomena  
Committee Chair: Prof. U. C. Tauber

Zhuang, Fei  
Study and Application of the Space Curve Quantum Control Formalism  
Committee Chair: Prof. S. E. Economou

**PSYCHOLOGY**

Carlton-Smith, Corinne Nicole  
Characterizing Reward Function During Social Feedback: Associations with Anhedonia in Socially Anxious Adolescents  
Committee Chair: Prof. J. A. Richey

Coombs, Aaron Keith  
A Mixed Methods Study of Ranger Attrition: Examining the Relationship of Candidate Attitudes, Attributions and Goals  
Committee Chair: Prof. N. M. Hauenstein

Faunce, Julia C.  
Sensory Entrainment, Paying Attention, and Keeping Beat: General Effects and Individual Differences  
Committee Chair: Prof. B. H. Scarpa-Friedman
Minton, Brandon Tyler
The Order in Which You Cope Matters: An Exploration of the Moderating Role of Coping Sequence on the Impact of Stressor Type on Affect
Committee Chair: Prof. J. I. Hernandez

Ristow, Teresa Lauren
A Person-Centered Approach to Understanding Perceived Deception in Job Advertisement Text
Committee Chair: Prof. J. I. Hernandez

STATISTICS
Christianson, Ryan Beck
Worlds Collide through Gaussian Processes: Statistics, Geoscience and Mathematical Programming
Committee Chair: Prof. R. B. Gramacy

Sauer, Annie Elizabeth
Deep Gaussian Process Surrogates for Computer Experiments
Committee Chair: Prof. R. B. Gramacy

THE VIRGINIA-MARYLAND COLLEGE OF VETERINARY MEDICINE
BIOMEDICAL & VETERINARY SCIENCES
Chuong, Christina
Effective Strategies for Preventing and Mitigating Emerging Viruses
Committee Chair: Prof. J. D. Weger, Jr.

Hensley, Casey Lynne
Investigation of Novel Prophylactics Against Human Rotavirus Using Gnotobiotic Pig Models
Committee Chair: Prof. L. Yuan

Panny, Lauren E.
Utilizing Proteomic Techniques to Discover Host Protein Interactions with the E1 Glycoprotein of Venezuelan Equine Encephalitis Virus (VEEV) for Anti-viral Discovery
Committee Chair: Prof. K. W. Kehn-Hall

Wang, Zhuang
Investigation of microRNAs in Autoimmunity: Characterizing the Effect of microRNA-183-96-182 Cluster on Lupus-prone Mice
Committee Chair: Prof. S. A. Ahmed

INTERDISCIPLINARY DEGREES
GENETICS, BIOINFORMATICS AND COMPUTATIONAL BIOLOGY
Johnson, Zachary Austin
Evaluation of Computational and Experimental Parameters in RNA Bisulfite Sequencing Analysis and Applications in Brain Development Studies
Committee Chair: Prof. H. D. Xie

Khairunisa, Bela Haifa
Microbiome Metabolism in the Rumen of Bovine Grazing Toxic Tall Fescue and Stored Manure
Committee Chair: Prof. B. Mukhopadhyay

Sharp, Amanda Kristine
Refining Computer-aided Drug Design Routes for Probing Difficult Protein Targets and Interfaces
Committee Chair: Prof. A. M. Brown
Yao, Xiangyu  
Mathematical Modeling of Circadian Gene Expression in Mammalian Cells  
Committee Chair: Prof. J. Chen

Thompson, Tiffany Nikia  
Synthesis and Structure-Property Relationships of Alicyclic Polyesters  
Committee Chair: Prof. M. Schulz

INDIVIDUAL INTERDISCIPLINARY PHD

Branscome, Caroline Finlay  
Do We Pray, or Do We Shoot? An Interdisciplinary Approach to Reconcile Polarized Stances: Peace and Defense Church Theological and Practical Responses to the Threat of a Mass Shooting  
Committee Chair: Prof. D. F. Cannon

Sardana, Disha  
Embodied Data Exploration in Immersive Environments: Application in Geophysical Data Analysis  
Committee Chair: Prof. I. Bukvic and Prof. G. D. Earle

Schwing, Kyle Michael  
Measuring the Communicative Constitution of Partial Organizations as Complex Systems  
Committee Chair: Prof. J. Pitt

Sitting, Standing, & Starting: Detailing Postural Control & Gait Anticipation in Children with Hemiplegic Cerebral Palsy  
Committee Chair: Prof. S. DeLuca and Prof. R. M. Queen

MACROMOLECULAR SCIENCE AND ENGINEERING

Feller, Keyton D.  
Vat Photopolymerization of High-Performance Materials through Investigation of Crosslinked Network Design and Light Scattering Modeling  
Committee Chair: Prof. T. E. Long and Prof. C. B. Williams

Liu, Yang  
Accelerated Engineering of Hydrogels Using Cantilever Sensors  
Committee Chair: Prof. B. Johnson

Datla, Udaya Sree  
Harnessing Systems Bioengineering Approaches to Study Microbe-microbe and Host-microbe Interactions in Health and Disease  
Committee Chair: Prof. C. N. Jones

Farah, Hassan-Galaydh Mohamud  
Sitting, Standing, & Starting: Detailing Postural Control & Gait Anticipation in Children with Hemiplegic Cerebral Palsy  
Committee Chair: Prof. S. DeLuca and Prof. R. M. Queen

Thompson, Tiffany Nikia  
Synthesis and Structure-Property Relationships of Alicyclic Polyesters  
Committee Chair: Prof. M. Schulz

TRANSLATIONAL BIOLOGY, MEDICINE AND HEALTH

Blair, Grace Anna  
Investigating the Coordination of Cardiac Conduction and Repolarization in Ventricular Myocardium  
Committee Chair: Prof. S. Poelzing

Castaneda, Allison Nicole  
Functional Labeling of Individualized Post-Synaptic Neurons using Optogenetics and trans-Tango  
Committee Chair: Prof. L. Ni

Craft, William Hugh  
The Impact of Pain on Key Outcomes in Opioid Use Disorder Recovery  
Committee Chair: Prof. W. K. Bickel

Craft, William Hugh  
The Impact of Pain on Key Outcomes in Opioid Use Disorder Recovery  
Committee Chair: Prof. W. K. Bickel

Hoque, Maruf M.  
Extracellular Matrix Contributions to Early Vascular Development and Pericyte Precursor Dynamics  
Committee Chair: Prof. J. C. Chappell
Marano, Jeffrey Matthew
Development, Characterization, and Use of Molecular Tools to Study Immunological-Driven Zika Virus Evolution
  Committee Chair: Prof. S. L. Paulson and Prof. J. D. Weger, Jr.

Porter, Demisha Donei Lasha
Modeling Neural Stem Cell Dynamics in Congenital Heart Disease
  Committee Chair: Prof. P. D. Morton

Tomlinson, Devin Christine
Cumulative Vulnerabilities: Substance Use in Adolescence and in Recovery
  Committee Chair: Prof. W. K. Bickel

Breaux, Teri Clark
Perceptions of Elementary Principals on the Social Emotional Learning of Students During the COVID-19 Pandemic
  Committee Chair: Prof. J. L. Brinkmann

Brill, Meaghan Boteler
Female Superintendents: Does Gender Matter?
  Committee Chair: Prof. C. S. Cash

Brown, Renee Williams
A Comparative Study of Reading and Math Assessment Scores of Students Attending Three Traditional Elementary Public Schools and Three Elementary Charter Schools in Virginia
  Committee Chair: Prof. M. D. Alexander

Byrd, Tyrone Qovodis
An Investigation of Black and Hispanic Participation and Performance in Advanced Placement Courses in a School Division that has Targeted Increased Participation as a Goal
  Committee Chair: Prof. C. S. Cash

Davis, Lori B.
High School Teachers' Perceptions of Teaching Online During the COVID-19 Pandemic in a Rural County in North Carolina
  Committee Chair: Prof. M. D. Alexander

Finnegan-Copen, Victoria Marie
How Teachers Implement, Assess, and Perceive Their Readiness to Implement Content-Embedded Social-Emotional Learning: A Qualitative Study of Secondary School Teachers in One Virginia School Division
  Committee Chair: Prof. C. S. Cash

Avery, Cecil Hart
An Analysis of Career and Technical Education's Influence on Graduation Rates in the Commonwealth of Virginia
  Committee Chair: Prof. T. S. Price

Avery, Jessica
Elementary School Administrators' Perceptions of Restorative Justice on Student Discipline in One Rural Division in Virginia
  Committee Chair: Prof. J. L. Brinkmann

Bacs, Corrin Matthias
High School Assistant Principals' Perceptions of Leadership Related to School Discipline in One Public School Division Pre- and Post-COVID-19 Pandemic
  Committee Chair: Prof. J. L. Brinkmann
Frye, Kisha Tiala
Building Culturally Competent Pedagogy and Practice for Positive Student, Family, and Peer Relationships
Committee Chair: Prof. J. L. Brinkmann

Graham, Alice
Perceptions of Returning Adult Education Students Regarding Dropping Out of High School in One Virginia School Division
Committee Chair: Prof. J. L. Brinkmann

Harris, James Terrell
Principal Leadership for Equity: Actions and Preparedness in One Urban School Division
Committee Chair: Prof. C. S. Cash

Heltz, Stacey Lee
Perceptions of School Leaders, School Division Leaders, and non-SRO Model Employees Regarding a New School Safety Model in One Urban Virginia School Division
Committee Chair: Prof. C. S. Cash

Jacobs-Sumbry, Tori Alicia
A Qualitative Study Investigating High School Teachers' Perceptions of Strategies Used to Involve Hispanic ELL Parents in Urban Public High Schools
Committee Chair: Prof. T. S. Price

Jarman, David R.
The Relationship Between Teacher and Student Gender and the Evaluation of Male Students for Behavioral Characteristics of Emotional Disability and Attention Deficit Hyperactivity Disorder
Committee Chair: Prof. J. L. Brinkmann

Marbury, Kristen Renee
Evaluating Culturally Responsive Practices: Preparedness of Teachers
Committee Chair: Prof. T. S. Price

Marsilio, Geralyn Marie
Elementary School Enrollment Size and the Academic Success for English Language Learners in High and Low English Learner Population Schools
Committee Chair: Prof. C. S. Cash

Nitowski, Robert Jude
Predicting Graduation Rates from Prior Academic Achievement, Attendance, and Behavior: A Quantitative Analysis
Committee Chair: Prof. C. A. Mullen

Rankin, Kristin Rachelle Lazenby
The Perceptions of Alternatively Certified K-12 Public School Teachers in One Division in Virginia Regarding Their Preparedness to Teach and the Training and Administrative Support They Need for Retention
Committee Chair: Prof. J. L. Brinkmann

Renard-Spicer, Lisa
Building Level Administrators' Experiences and Perceptions Regarding Preparation for their Role in Teacher Retention: A Basic Qualitative Study
Committee Chair: Prof. T. S. Price

Schaefer, Catherine Irene
Perceptions of Novice Elementary School Special Education Teachers Regarding the Impact of Professional Learning Communities on Teacher Retention
Committee Chair: Prof. T. S. Price

Shears-Walker, Barbara Jean
Perceptions of High School Principals and Teachers Regarding Principal Leadership Practices in Support of Co-Teaching
Committee Chair: Prof. J. L. Brinkmann

Slaney, Sean Patrick
Perspectives of Effective Family Engagement in a Title I School
Committee Chair: Prof. T. S. Price
Winchester, Irene Patricia
Principals’ Perceptions of Online Learning
Post-Pandemic in Small Virginia School Divisions
Committee Chair: Prof. C. S. Cash

Winckler, Carl Frederick
A Study Examining Disparities in Selected Variables of High Performing and Low Performing High Schools in the Commonwealth of Virginia
Committee Chair: Prof. G. I. Earthman and Prof. C. S. Cash

Worcester, Eric William
Hiring for Success: The Hiring Practices of Site-Based Principals in One District in Virginia
Committee Chair: Prof. T. S. Price

COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES
Education Specialist

EDUCATIONAL LEADERSHIP AND POLICY STUDIES

Custalow, Dannie R.
DeLoatch, Lloyd
Humphrey, Katherine E.
Messer, Sarah Elizabeth
Partington, Katherine Dodd
Quesenbery, Sara Elizabeth
Rottmann, Cynthia Ann
COLLEGE OF AGRICULTURE AND LIFE SCIENCES

MASTER OF SCIENCE
AGRICULTURAL AND APPLIED ECONOMICS
Cabrera, Victoria
Gill, Jayson Gregory
Goldstein, Bram Lorenzo
Joppy II, Derrell A.
Nguyen, Huong Thi Nhi
Ripley, Samantha
Sembene, Maguette

AGRICULTURAL AND LIFE SCIENCES
Adams, Courtney Sierra
Allen, Jessica Ann
Bastola, Saroj
Berbic, Naida
Brockington, Ashley Gordon
Claborn, Gabriella A.
Collins, Matalin Brooke
Cupp, Glenna NaShea
Dobscha, Madison Diane
Gerardi, Collin Joseph
Harrison, Sarah Katherine
Hitchcock, Miranda
Howard, Skyler Wolf
Kaiser, Emmett Rowan
Lane, Rachel Hart
Lumpkin, Savanna Katherine
McGuirk, James Neil
Munson, Amy Jaelyn
Sandri, Rachel
Sapp, Tyreke Jourdan
Slagle, Madison
Trujillo, Maritza

ANIMAL AND POULTRY SCIENCES
Bertucci, Mary Zimmermann
Gregg, Savannah Renee
Kincaid, Briana Guin
McKinley, Endya

CROP AND SOIL ENVIRONMENTAL SCIENCES
Bellangue, David Nsame
Ghimire, Soni
Larcom, Raven Miranda
Loeb, Amelia
McLoughlin, Brendan P.

HUMAN NUTRITION, FOODS AND EXERCISE
Andreano, Kylea Joelle
Baxter, Rachel Marie
MASTER OF SCIENCE IN LIFE SCIENCES
AGRICULTURAL AND EXTENSION EDUCATION
Ellis, Lisa Diane
Mack, Rachel E.

BIOCHEMISTRY
McKinney, Justin Charles
Oker, Helen Maria
Stone, Spenser
Vanwinkle, Ashlynn Brook

DAIRY SCIENCE
McGehee, John Franklin

ENTOMOLOGY
Campbell, Chad Dennis
Garba, Ahmed Oladayo
Harrison, Garrett Taylor
Hillen, Ashleigh Paige
Riedel, Corey Stewart Robert
Ruhinda, Miriam Shani

FOOD SCIENCE AND TECHNOLOGY
Allen, Jordan
Bywater, Auja
Carmody, Kyle Garrett

Cook, Camryn Grace
Guinee, Aislinn
Haser, Isabelle M.

HORTICULTURE
Tharpe, Anna Ekene Davis

MASTER OF SCIENCE IN NUTRITION AND DIETETICS
Ambrose, Kathleen Margaret
Burkholder, Hannah Ruth
Hower, Anna Grace
Ibanez, Cristina Isabel
Klewicki, Rebekah Helena
Miller, Hayley Brooke Bunnell
Mitterer, Emily Blair
Plodzik, Jamie Grace
Vick, Rebecca Christine
Wright, Carrie Grace

COLLEGE OF ARCHITECTURE, ARTS, AND DESIGN
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Nanda, Anubhav
Oddula, Abhinav Reddy
Oladipo, Ebunoluwa
Padmanabha, Pallavi
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<td>Rastogi, Rishabh</td>
<td>Sundaram, Kavyaswastika S.</td>
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Vinayaka, Sarthak
Vita, Justin Polo
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**ELECTRICAL ENGINEERING**
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Cruz, Ryan Bermudez
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Saber, Barzy Mohsin
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Satheesa Panicker, Sheru
Seibert, Michael James
Sendon, Bernadette
Shahpouri Arani, Mahyar
Smith III, James Frank
Smith, Joel Edward
Sotka, Michelle Ferri
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Spangler, Whitney Nicole
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Stack, Christopher Thomas
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Langager, Erin Rebecca
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Netzel, Jacob Andrew
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