DOCTOR OF PHILOSOPHY

COLLEGE OF AGRICULTURE AND LIFE SCIENCES

AGRICULTURAL AND EXTENSION EDUCATION

Osman, Nesma Osama
Program Planning and Evaluation Frameworks for Programs Serving Farmers with Disabilities: Lesson Learned from AgrAbility
  Committee Chair: Prof. T. G. Archibald

ANIMAL AND POULTRY SCIENCES

Bohler Jr, Mark William
Hypothalamic Mechanisms of Food Intake in Birds
  Committee Chair: Prof. M. A. Cline

Calvert, Alamanda J.
The Effects of a Direct fed Microbial, Calcium Level and Method of Coccidiosis Control on Broilers Experiencing a Natural Necrotic Enteritis Challenge
  Committee Chair: Prof. A. P. McElroy and Prof. M. E. Persia

Yonke, Joseph Allan
Branched-Chain Amino Acid Metabolism in the Neonatal Pig
  Committee Chair: Prof. S. W. El-Kadi

ANIMAL SCIENCE, DAIRY

Hanling, Haylee Stachelle Hicks
The Physiology of Enhanced Milk Yield Through Increased Milking Frequency in Early Lactation
  Committee Chair: Prof. B. A. Corl

BIOCHEMISTRY

Cridland, Caitlin Anne
Elucidating the Function of Inositol Pyrophosphate Signaling Pathways in Arabidopsis Thaliana
  Committee Chair: Prof. G. E. Gillaspy

Davidson, Darcy Shanley
Investigating the Electrostatic Properties and Dynamics of Amyloidogenic Proteins with Polarizable Molecular Dynamics Simulations
  Committee Chair: Prof. J. A. Lemkul

Freed, Catherine Phillips
Inositol Pyrophosphate Phosphatases as Key Enzymes to Understand and Manipulate Phosphate Sensing in Plants
  Committee Chair: Prof. G. E. Gillaspy

Mena Aguilar, Didier Philippe
Proteomic and Genomic Characterization of the Influence of Copper on Legionella Pneumophila and the Drinking Water Microbiome
  Committee Chair: Prof. R. F. Helm

Nguyen, Tam
Decoding Novel Virulence Strategies in Fusobacterium Invasion and Survival
  Committee Chair: Prof. D. J. Slade

CROP AND SOIL ENVIRONMENTAL SCIENCES

Angel, Hannah Zoe
Analysis of Reconstructed Mine Soils on Reclaimed Coal and Mineral Sands Mined Lands in Virginia
  Committee Chair: Prof. W. L. Daniels
Mott, Joshua Darell  
Effects of Biofertilizers and Organic Amendments on Nutrient Availability in Soil & Plant Growth  
   Committee Chair: Prof. A. O. Abaye and Prof. R. O. Maguire

Poudel, Sanjok  
Behavior and Physiological Responses of Livestock Under Different Grazing Systems  
   Committee Chair: Prof. J. H. Fike and Prof. G. J. Pent

Shawver, Sarah Elizabeth  
Antibiotic Resistance in Soil Microbial Communities  
   Committee Chair: Prof. B. D. Badgley

WEBB, Emily Morgan  
Cross-reactivity Among Alphaviruses Provides Insight Into Viral Emergence and Novel Defense Strategies  
   Committee Chair: Prof. J. D. Weger, Jr.

Xie, Na  
Exploiting Muscarinic Acetylcholine Receptors as an Insecticidal Target to Enhance the Toxicity of Gamma-amino Butyric Acid Channel Blockers and the Continued Challenges with Resistance  
   Committee Chair: Prof. A. D. Gross

ECONOMICS

Yao, Zhenyu  
Air Quality Economics: Three Essays  
   Committee Chair: Prof. K. Moeltner

ENTOMOLOGY

Bekelja, Kyle Matthew  
A Study of Neonicotinoid Seed Treatments in Bt Maize: Insect Resistance Management, Efficacy, and Environmental Fate  
   Committee Chair: Prof. T. P. Kuhar and Prof. S. V. Taylor

Boyle, Sean Michael  
   Committee Chair: Prof. T. P. Kuhar and Prof. D. C. Weber

Roth, Morgan Alicia  
Exploring Aethina tumida Biology and the Impacts of Environmental Factors to Generate Novel Management Strategies  
   Committee Chair: Prof. A. D. Gross

HORTICULTURE

Hamilton, Leah Marie  
Translating Sensory Perceptions: Existing and Emerging Methods of Collecting and Analyzing Flavor Data  
   Committee Chair: Prof. J. Lahne

Su, Xueqian  
Flavor Chemistry of Regional Hops (Humulus lupulus L.) and Novel Aroma Application of Hop-derived Products  
   Committee Chair: Prof. Y. Yin

Wang, Kunru  
Characterization of Novel Type VI Effectors of Acidovorax citrulli and Their Applicability to Biological Control of Plant Diseases  
   Committee Chair: Prof. B. Zhao
HUMAN NUTRITION, FOODS AND EXERCISE

Compton, Stephanie Lynn Edwards
Metabolic Adaptations of Ovarian Cancer Metastases to Physiological Conditions and Disease Progression
Committee Chair: Prof. E. M. Schmelz

Dysart, Susanna Frances
The Roles of Yoga and Cooperative Extension in Meeting and Promoting the Physical Activity Guidelines for Americans
Committee Chair: Prof. S. M. Harden

Hamm, Shelby Elizabeth
Physiological Adaptations in MDX Mice Treated with Microdystrophin Gene Therapy and Endurance Exercise
Committee Chair: Prof. R. W. Grange

Hargrove, Angelina J.
Rural Community Perspectives and Actions Taken to Build Consensus on the Opioid Crisis in Southern Virginia: A Community-Based Participatory Multiphase Mixed Methods Study
Committee Chair: Prof. C. Rafie

Lynn, Sarah
Improving Mindfulness Outcomes and Measurements to Support Self-Regulation
Committee Chair: Prof. J. C. Basso

Reid, Glen Robertson
Ketone Supplementation, Cardiometabolic Health, and Cognition in Humans
Committee Chair: Prof. K. P. Davy

Specht, Kalyn Sloane
Nox4 Mediates the Metabolic Stress Response in Skeletal Muscle
Committee Chair: Prof. S. Craige

PLANT PATHOLOGY, PHYSIOLOGY AND WEED SCIENCE

Booth, Jordan Christopher
Impact of Management Practices on Cold Tolerance of Ultradwarf Bermudagrass Putting Greens
Committee Chair: Prof. D. S. McCall

Hutchens, Wendell Joseph
Biology, Epidemiology, and Management of Spring Dead Spot of Bermudagrass
Committee Chair: Prof. D. S. McCall

Sathanantham, Preethi
Characterization of an Amphipathic Alpha-Helix in the Membrane Targeting and Viral Genome Replication of Brome Mosaic Virus
Committee Chair: Prof. X. Wang

Sharma, Gourav
Investigating the Role of Epigenetics in Rapid Adaptation to Stress in Arabidopsis Thaliana and Sorghum Bicolor
Committee Chair: Prof. S. D. Askew and Prof. J. Barney

COLLEGE OF ARCHITECTURE AND URBAN STUDIES

ARCHITECTURE AND DESIGN RESEARCH

Ahmadi, Golnar
Proportion, Music and Architecture in Gottfried Semper's Works
Committee Chair: Prof. P. F. Emmons
Ali, Shahd Mahmoud
  Committee Chair: Prof. J. R. Jones and Prof. L. M. Tucker

Kordon, Sinan
Understanding People's Perceptions and Attitudes Towards Community Garden Landscapes in Roanoke, Virginia
  Committee Chair: Prof. C. L. Bohannon

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

Sugati, Alsaleh Tariq
A Framework for Integrating Pure Shadow Lines into Architectural Design Process
  Committee Chair: Prof. J. R. Jones

PLANNING, GOVERNANCE, AND GLOBALIZATION

Choi, Seungbee
Trajectories of Individual Behavior in the US Housing Market
  Committee Chair: Prof. T. W. Sanchez

Meade, Julian Ray
U.S. Arctic National Interests and Governance Engagement
  Committee Chair: Prof. J. Peters

PUBLIC ADMINISTRATION/ PUBLIC AFFAIRS

Gregory, Peter Andrew
Gun Violence in Black and White: State Gun Laws and Race-Specific Mortality Rates
  Committee Chair: Prof. K. M. Hult

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

McKeague, Lauren Kelly
Rethinking Disaster Management Assumptions: Emergent, Community-Based Networks and Lessons Learned from COVID-19
  Committee Chair: Prof. R. H. Lemaire

Talukdar, Shahidur Rashid
Policy Conflict Among Local Government Officials: How Does Participation in Regional Governance Relate to Policy Position Divergence?
  Committee Chair: Prof. K. M. Hult
PAMPLIN COLLEGE OF BUSINESS

BUSINESS, ACCOUNTING AND INFORMATION SYSTEMS

Valentine, Delia Fidelas
Do As I Say, Not As I Do
Committee Chair: Prof. S. E. Stein

BUSINESS, BUSINESS INFORMATION TECHNOLOGY

Choi, Daeeun
Privacy Suspension with Sustainability and Trust in Consumer Adoption of Smart Technology
Committee Chair: Prof. A. G. Wang and Prof. P. B. Lowry

BUSINESS, EXECUTIVE BUSINESS RESEARCH

Haines, Howard K.
Conversing Opportunities into Existence: An Examination of Opportunity Interactions and Opportunity Development in Nascent Entrepreneurship
Committee Chair: Prof. D. Townsend

BUSINESS, FINANCE

Hosseinian, Amin
Institutional Segmentation of Equity Markets: Causes and Consequences
Committee Chair: Prof. R. M. Edelen

Zhu, Ruiyao
Two Essays on Corporate Governance
Committee Chair: Prof. J. Xu

BUSINESS, MANAGEMENT

Calvano da Silva, Felipe
Rethinking Directors' Effectiveness: The Development and Empirical Analysis of a Novel Model
Committee Chair: Prof. K. A. Schnatterly

BUSINESS, MARKETING

Xie, Jieru
The Effect of Ownership on Consumers' Disposal Decisions: Research on Food Wastage and Recycling Behaviors
Committee Chair: Prof. R. Bagchi

COLLEGE OF ENGINEERING

AEROSPACE ENGINEERING

Boyda, Matthew Thomas
Simultaneous Multi-Property Quantification of Internal Flow Fields by Filtered Rayleigh Scattering
Committee Chair: Prof. K. T. Lowe

Choi, Jae-Young
Autonomous Operation of UAS Using GPR-based Target Tracking and Hybrid Path Planning Methods
Committee Chair: Prof. S. S. Choi

Denham, Casey Leigh-Anne
Committee Chair: Prof. M. J. Patil and Prof. C. J. Roy
Desai, Siddhant Pratikkumar
Experimental and Numerical Investigations of the Aerodynamics of Flexible Inflatable Wings
  Committee Chair: Prof. J. A. Schetz and Prof. R. K. Kapania

Ge, Mingming
Experimental Study of Two-phase Cavitating Flows and Data Analysis
  Committee Chair: Prof. O. Coutier-Delgosha

Gresham, James Louis
Aerodynamic Modeling in Nonlinear Regions, Including Stall Spins, for Fixed-Wing Unmanned Aircraft from Experimental Flight Data
  Committee Chair: Prof. C. A. Woolsey

Kara, Mustafa Yasin
  Committee Chair: Prof. A. J. Brown

Miglani, Jitish
Analysis, Design, and Experimentation of Beam-Like Structures
  Committee Chair: Prof. R. K. Kapania

Nurani Hari, Nandita
Surface Pressure Shielding Mechanisms in Bio-inspired Canopy Surface Treatments
  Committee Chair: Prof. W. J. Devenport

Palwankar, Manasi Prafulla
  Committee Chair: Prof. R. K. Kapania

Peterson, Marco Anthony
Optical Satellite/Component Tracking and Classification Via Synthetic CNN Image Processing for Hardware-in-the-Loop Testing and Validation of Space Applications Using Free Flying Drone Platforms
  Committee Chair: Prof. J. T. Black

Shirodkar, Nishant Prashant
Investigating Fracture Toughness Enhancement Mechanisms in Polymer Matrices and Developing Self-sensing Multifunctional Composites by Leveraging Carbon-based Nanoparticle Dispersions
  Committee Chair: Prof. G. D. Seidel

**BIOLOGICAL SYSTEMS ENGINEERING**

Ahammad, Muneer
Advanced Suspended Sediment Sampling and Simulation of Sediment Pulses to Better Predict Fluvial Geomorphic Change in River Networks
  Committee Chair: Prof. J. A. Czuba

Shahed Behrouz, Mina
Improving Predictions of Stormwater Quantity and Quality Through the Application of Modeling and Data Analysis Techniques From National to Catchment Scales
  Committee Chair: Prof. D. J. Sample

**BIOMEDICAL ENGINEERING**

Alinezhadbalalami, Nastaran
Utilizing the Immunomodulatory Effects of Electroporation for Treating Brain Tumors
  Committee Chair: Prof. R. V. Davalos and Prof. S. Verbridge
Colucci-Chang, Katrina
The Relationship Between Ephaptic Coupling and Excitability in Ventricular Myocardium
Committee Chair: Prof. S. Poelzing

Gummidipoondy Udayasuryan, Barath
The Role of Fusobacterium Nucleatum in the Tumor Microenvironment
Committee Chair: Prof. S. Verbridge

Meng, Yunzhu
Investigation of W-beam Energy-absorbing Guardrail End Terminal Safety Performance Using Finite Element Modeling
Committee Chair: Prof. C. D. Untaroiu

Stine, Caleb Allan
Interstitial Fluid Flow Magnitude and its Effects on Glioma Invasion
Committee Chair: Prof. J. M. Munson

CHEMICAL ENGINEERING

Minnick, Rebecca Anne
The Study of Injection Molding Processing Parameters of Glass Fiber Reinforced Composites in Polypropylene: The Development of Fiber Collection Techniques for Measuring Fiber Populations for the study of Fiber Length Distributions and Fiber Orientation
Committee Chair: Prof. R. M. Davis and Prof. M. J. Bortner

Omidvar, Noushin
Towards a Data-driven Design of Nanocatalysts for Electrochemical Reactions
Committee Chair: Prof. H. Xin

Sarver, Joseph Arron
Linking Thermophysical Transitions and Rheological Properties to Polymer Foaming Outcomes with Carbon Dioxide
Committee Chair: Prof. E. Kiran

Thompson, Coogan Bryce
Descriptor Approach to Designing Single Atom Catalysts and Catalytic Systems
Committee Chair: Prof. A. M. Karim

CIVIL ENGINEERING

Alfailakawi, Ali
Experimental Investigations of Residual Strength and Repaired Strength of Corrosion Damaged Prestressed Bridge Beams
Committee Chair: Prof. C. L. Roberts-Wollmann and Prof. M. H. Hebdon

Alsalous, Osama
Airport Performance Metrics Analysis: Application to Terminal Airspace, Deicing, and Throughput
Committee Chair: Prof. S. Hotle

Amaya, Maria Teresa
A Coupled Hydrologic-economic Modeling Framework for Evaluating Alternative Options for Reducing Watershed Impacts in Response to Future Development Patterns
Committee Chair: Prof. J. C. Little

An, Zhaohui
Mechanistic Understanding of Biogranulation for Continuous Flow Wastewater Treatment and Organic Waste Valorization
Committee Chair: Prof. Z. Wang

Davis, Benjamin Cole
Metagenomic-Based Environmental Monitoring of Antibiotic Resistance
Committee Chair: Prof. A. J. Pruden-Bagchi
Florence, Matthew Benedict Skaanning
Effects of Vertical Pore Pressure Gradients in the Intertidal Zone on Sediment Transport
Committee Chair: Prof. N. Stark

Lotts, William Seth
In the Zone: The Effects of Soil Pipes and Dunes on Hyporheic and Riparian Zone Hydraulics and Biogeochemistry
Committee Chair: Prof. E. T. Hester

Martinez, Meredith Grace
Investigating the Impact of Aquifer Long Term Replenishment on the Potomac Aquifer System in Virginia
Committee Chair: Prof. M. A. Widdowson and Prof. C. B. Bott

McGlynn, Deborah Fairbanks
Understanding the Chemical Impacts of Biogenic Volatile Organic Compounds and the Physical Drivers of Their Observed Seasonality
Committee Chair: Prof. G. Isaacman-VanWertz

Pan, Jin
Presence and Stability of SARS-CoV-2 on Indoor Surfaces and Masks
Committee Chair: Prof. L. C. Marr

Paprocki, Julie Anna
A Framework for Assessing Lower-Bound Bearing Capacity of Sandy Coastal Sediments from Remotely Sensed Imagery
Committee Chair: Prof. N. Stark

Welling, Stephen Michael
Fuzzy-Logic Based Modeling for Optimal Renewal Timing and Project Selection of Ferrous Water Mains
Committee Chair: Prof. S. K. Sinha

Wilches Estan, Jose De Jesus
Numerical Modeling of Steel-concrete Tubular Composite Connections
Committee Chair: Prof. R. T. Leon

**COMPUTER ENGINEERING**

An, Xiaoxin
On Reducing the Trusted Computing Base in Binary Verification
Committee Chair: Prof. B. Ravindran

Gao, Chen
Consistent Synthesis
Committee Chair: Prof. J. Huang

Li, Xiaolong
Deep Object-Centric 3D Perception with Invariance and Equivariance
Committee Chair: Prof. A. L. Abbott

Mishra, Tanmaya
Defending Real-Time Systems Through Timing-Aware Designs
Committee Chair: Prof. T. Chantem

Oza, Pratham Rajan
Predictable Connected Traffic Infrastructure
Committee Chair: Prof. T. Chantem

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

Xiao, Yang
Blockchain and Distributed Consensus: From Security Analysis to Novel Applications
Committee Chair: Prof. W. Lou

Zou, Yuliang
Label-Efficient Visual Understanding with Consistency Constraint
Committee Chair: Prof. J. Huang
COMPUTER SCIENCE AND APPLICATIONS

Arachie, Chidubem Gibson
Learning with Constraint-Based Weak Supervision
  Committee Chair: Prof. B. Huang

Bian, Yali
Human-AI Sensemaking with Semantic Interaction and Deep Learning
  Committee Chair: Prof. C. L. North

Biswas, Subhodip
Spatial Optimization Techniques for Redistricting
  Committee Chair: Prof. N. Ramakrishnan

Datta, Debanjan
A Framework for Automated Discovery and Analysis of Suspicious Trade Records
  Committee Chair: Prof. N. Ramakrishnan

Fu, Xinwei
Detecting Application-specific Non-volatile Memory Bugs by Inferring Likely-correctness Conditions from Programs
  Committee Chair: Prof. A. Butt and Prof. C. Min

Ji, Taoran
On Modeling Dependency Dynamics of Sequential Data: Methods and Applications
  Committee Chair: Prof. C. Lu

Jin, Xianhao
Cost-saving in Continuous Integration: Development, Improvement, and Evaluation of Build Selection Approaches
  Committee Chair: Prof. F. J. Servant Cortes

Li, Yuan
Assisting Spatial Referencing for Collaborative Augmented Reality
  Committee Chair: Prof. D. A. Bowman

Nagy, Stefan
Advancing and Accelerating Vetting of the Closed-source Software Ecosystem
  Committee Chair: Prof. M. Hicks

Shrestha, Chandani
ThoughtSwap: Changing the Infrastructure of Discourse in Classroom
  Committee Chair: Prof. D. G. Tatar

Zhang, Da
Architectural Support to Safely Exploit Memory Frequency and Latency Margins to Improve Performance in High-Performance Computing Systems
  Committee Chair: Prof. X. Jian

Zilevu, Kobla Setor
Human Computer Interaction for Complex Machine Learning
  Committee Chair: Prof. T. Rikakis and Prof. A. Kelliher

ELECTRICAL ENGINEERING

Banagar, Morteza
Drone Cellular Networks: Fundamentals, Modeling, and Analysis
  Committee Chair: Prof. H. Dhillon

Choudhury, Biplav
Information Freshness: How to Achieve It and Its Impact on Low-Latency Autonomous Systems
  Committee Chair: Prof. J. H. Reed and Prof. V. K. Shah

Conroy, James Patrick
Contemporary Ionospheric Scintillation Studies: Statistics, 2D Analytical and 3D Numerical Inversion
  Committee Chair: Prof. W. A. Scales and Prof. A. I. Zaghloul
Foruhandeh, Mahsa  
Security Solutions for Cyber Physical Systems  
   Committee Chair: Prof. R. M. Gerdes and Prof. A. Stavrou

Lu, Shengchang  
Packaging Enhancement Mode Gallium Nitride High Electron Mobility Transistors for High Power Density and for High Temperature Applications  
   Committee Chair: Prof. G. Lu and Prof. K. D. Ngo

Nam, Wonil  
Bio-interfaced Nanolaminate Surface-enhanced Raman Spectroscopy Substrates  
   Committee Chair: Prof. W. Zhou

Nowak, Sk Nabil  
Remote Sensing of the Lower Atmosphere: From Surface Concentration to Mixing Layer Height  
   Committee Chair: Prof. E. S. Lind

Razavi Borghei, Seyyed Moein  
Partial Discharges: Experimental Investigation, Model Development, and Data Analytics  
   Committee Chair: Prof. M. Ghassemi

Stockland, Robert Thomas  
A Study of Electromagnetic Scattering of Communication Signals by Randomly Rough Surfaces  
   Committee Chair: Prof. G. S. Brown

Taleb Zadeh Kasgari, Ali  
Reliable Low Latency Machine Learning for Resource Management in Wireless Networks  
   Committee Chair: Prof. W. Saad

Valinejad, Jaber  
Measuring and Enhancing the Resilience of Interdependent Power Systems, Emergency Services, and Social Communities  
   Committee Chair: Prof. L. M. Mili

Wang, Le  
Power Converters for Piezoelectric and Pyroelectric Materials  
   Committee Chair: Prof. R. Burgos

Yu, Jianghui  
High-Frequency Design Consideration and EMI Mitigation in SiC-based Multilevel Converters  
   Committee Chair: Prof. R. Burgos

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**ENGINEERING EDUCATION**

Beauchamp, Cheryl Lynn  
Exploring Cyber Ranges in Cybersecurity Education  
   Committee Chair: Prof. H. Matusovich

Deters, Jessica Rose  
Investigating Student Experiences of Engineering Culture During COVID-19: A Comparative Case Study  
   Committee Chair: Prof. M. C. Paretti

Espera, Alejandro Hanginon  
Through the Lenses of Pedagogical Content Knowledge and Instructor Beliefs: Understanding Engineering Instructors' Enacted Practice  
   Committee Chair: Prof. N. Pitterson

Jalali, Yousef  
What Sustains Inter-institutional Collaborations? An Exploratory Study of Research Collaborations Between Faculty at HBCUs and PWIs  
   Committee Chair: Prof. V. K. Lohani and Prof. C. Matheis

Van Tyne, Natalie Christine Trehubets  
Achieving What Gets Measured: Responsive and Reflective Learning Approaches and Strategies of First-Year Engineering Students  
   Committee Chair: Prof. E. D. McNair
ENGINEERING MECHANICS

Graham, Michelle Rebecca
Dynamic Gap Crossing in Jumping and Flying Snakes
Committee Chair: Prof. J. Socha

Weiss, Talia M.
Locomotion of Skittering Frogs at the Air-water Interface
Committee Chair: Prof. J. Socha

INDUSTRIAL AND SYSTEMS ENGINEERING

Albahar, Areej A. Sh A.
Bayesian Optimization for Engineering Design and Quality Control of Manufacturing Systems
Committee Chair: Prof. I. Kim and Prof. X. Yue

Beach, Benjamin Josiah
Discrete Approximations, Relaxations, and Applications in Quadratically Constrained Quadratic Programming
Committee Chair: Prof. R. Hildebrand

Kucukdeger, Ezgi
Closed-loop Tool Path Planning for Non-planar Additive Manufacturing and Sensor-based Inspection on Stationary and Moving Freeform Objects
Committee Chair: Prof. B. Johnson

Shen, Bo
Advanced Data Analytics for Quality Assurance of Smart Additive Manufacturing
Committee Chair: Prof. Z. Kong

Wang, Yinan
Engineering-driven Machine Learning Methods for System Intelligence of Smart Manufacturing
Committee Chair: Prof. X. Yue

Xu, Peng
Design of Joint Verification-Correction Strategies for Engineered Systems
Committee Chair: Prof. A. Salado Diez

MATERIALS SCIENCE AND ENGINEERING

Angle, Jonathan Willis
Committee Chair: Prof. M. J. Kelley

Haag, James Vincent
Multiscale Microstructural Investigation of the Ductile Phase Toughening Effect in Bi-Phase Tungsten Heavy Alloys
Committee Chair: Prof. M. Murayama

Hileman, Zachary Daniel
Fully Distributed Multi-Material Magnetic Sensing Structures for Multiparameter DAS Applications
Committee Chair: Prof. G. R. Pickrell

Wang, Wenbo
Effects of Chemical and Structural Heterogeneity on the Tribocorrosion Resistance of Metals in Aqueous Solutions
Committee Chair: Prof. W. Cai

MECHANICAL ENGINEERING

Alanazi, Mohammed Awwad
Intelligent Non-Invasive Thermal Energy Flow Rate Sensor for Laminar and Turbulent Pipe Flows
Committee Chair: Prof. T. E. Diller
Alkandari, Waleed M. M. A.  
Multiscale Physics Based Modeling of Tire Rolling Resistance Considering Aging  
Committee Chair: Prof. S. Taheri

Bezek, Lindsey Bernadette  
Process-Property Characterization for Multi-Material Jetting Applications  
Committee Chair: Prof. C. B. Williams

Doan, Luan Cong  
Investigating the Hydration and Dynamics of Biomolecules in Solutions with a High Precision Terahertz Spectroscopy  
Committee Chair: Prof. B. Vick and Prof. V. Nguyen

Kamidi, Vinaykarthik Reddy  
Distributed Feedback Control Algorithms for Cooperative Locomotion: From Bipedal to Quadrupedal Robots  
Committee Chair: Prof. K. Akbari Hamed

Liu, Yujiong  
Novel Legged Robots with Serpentine Robotic Tails: Modeling, Control, and Implementations  
Committee Chair: Prof. P. Ben-Tzvi

Lowery, Adam Wallace  
Enhanced Portability and Anti-Frosting Functionality of Cryostats for Synchrotron-Based X-ray Imaging  
Committee Chair: Prof. J. B. Boreyko

Moh, Do Yoon  
Adsorption-Mediated Fluid Transport at the Nanoscale  
Committee Chair: Prof. R. Qiao

Moser, Joshua Nickolas  
Task Modeling, Sequencing, and Allocation for In-Space Autonomous Assembly by Robotic Systems  
Committee Chair: Prof. E. Komendera

Nikafrooz, Negin  
A Single-Actuated and Cable-Driven Assistive Glove Designed For Farming Application  
Committee Chair: Prof. A. Leonessa

Rau, Daniel Andrew  
Enabling New Material and Process Capabilities for Ultraviolet-Assisted Direct Ink Write Additive Manufacturing via Exploration of Material Rheology and Reactivity  
Committee Chair: Prof. C. B. Williams

Safaee, Bita  
Model Reduction of Power Networks  
Committee Chair: Prof. P. A. Tarazaga and Prof. S. Gugercin

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

Wang, Ruihao  
Natural Foliage Passageway Detection with Bioinspired Sonar Robot  
Committee Chair: Prof. A. Leonessa and Prof. R. Mueller

MINING ENGINEERING

Bishop, Richard Edwin  
Applications and Development of Intelligent UAVs for the Resource Industries  
Committee Chair: Prof. N. S. Ripepi

Guo, Ruichang  
Multi-scale Investigations on Geological Carbon Sequestration in Deep Saline Aquifers  
Committee Chair: Prof. N. S. Ripepi and Prof. C. Chen
Koermer, Scott Carl
Bayesian Methods for Separations
Committee Chair: Prof. C. A. Noble

Monsalve Valencia, Juan Jose
A Risk-Based Discrete Element Modeling Approach for Improving Safety in Underground Stone Mines
Committee Chair: Prof. N. S. Ripepi

Soni, Aman
Estimation of Pillar Strength for Improved Design and Feasibility of Secondary Recovery in a Karst-affected Underground Limestone Mine
Committee Chair: Prof. N. S. Ripepi

Chapin, John Andrew
The Effect of Whiteboarding on Student Self-Efficacy in the Computer Science Classroom
Committee Chair: Prof. B. D. Bowen

Clark, Rebecca Michelle
Engineering Uncertainty: A Framework for Argumentation in Socio-scientific Policy Analysis Problem Solving
Committee Chair: Prof. B. B. Lockee

Fielder, Emily Wade
Investigating the Complexity of Community in a Challenged Urban Elementary School
Committee Chair: Prof. S. G. Magliaro

May, Lauren Ashley
Exploring Novice Teacher Responses to the Challenges They Encounter Through Guided Reflective Inquiry
Committee Chair: Prof. T. T. Stewart

Mondesir, Sachiel
Relationship Among Class Perceptions, Math Identification, and STEM Choice: Examining Gender and Racial Differences
Committee Chair: Prof. J. L. Wilkins and Prof. B. D. Jones

Morgan, Cheryl Elizabeth
Technological and Designed Based Learning: Supporting Graphical Device Comprehension at the Upper Elementary Level
Committee Chair: Prof. J. G. Wells

Oliver, William Robert
Perceived Barriers to and Supports for Transfer to a STEM Bachelor's Degree Among Continuing-Generation and First-Generation Community College Students
Committee Chair: Prof. B. D. Bowen

Shelburne, Suzanne Peyton
Continuity and Change: Curriculum and Instruction in the World History Classroom
Committee Chair: Prof. D. Hicks

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COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES
COUNSELOR EDUCATION

Roosma, Shannon Kinzie
Counselor Views of the Role of Trauma in Borderline Personality Disorder
Committee Chair: Prof. L. E. Welfare

Zongrone, Courtney
From Compliance to Alliance: Strengthening the Working Alliance in Mandated Treatment
Committee Chair: Prof. L. E. Welfare

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CURRICULUM AND INSTRUCTION

Alfaleh, Maha Amin
Exploring the Professional Experiences of Saudi K-12 Teachers During the COVID-19 Pandemic
Committee Chair: Prof. K. R. Potter
Shifflett, Melisa Gail
Perceptions of Collaboration and Individual Communication Skills Among Advanced High School Students
Committee Chair: Prof. B. D. Bowen

Stidham, Sharon Flynn
An Integrative Review of the Conceptualization and Assessment of the Learner Flow Experience in the Digital Game-Based Learning Environment between 2011 and 2021
Committee Chair: Prof. K. S. Cennamo

Taylor, Lezly
Examining Changes in African American Students' Epistemic Agency as STEM Learners
Committee Chair: Prof. G. E. Glasson

Xu, Cong Ze
A Mixed Methods Study of Chinese Students' Construction of Fraction Schemes: Extending the Written Test with Follow-Up Clinical Interviews
Committee Chair: Prof. J. L. Wilkins

EDUCATIONAL LEADERSHIP AND POLICY STUDIES

Taylor, Tara Hammond
Cultivating and Sustaining Theatre Education Programs in Public Schools: Curricula, Teachers, Community, and Leadership
Committee Chair: Prof. M. D. Alexander and Prof. C. S. Cash

HIGHER EDUCATION

Holt Foerst, Emily Mary
Medical Students' Motivation-Related Perceptions in an Anatomy Course: A Mixed Methods Study to Inform Course Design and Instruction
Committee Chair: Prof. B. D. Jones and Prof. C. K. Robbins

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

Pete, Kendall
A Black Sense of Place: Deep Mapping the Career Journeys of Black Mid-level Student Affairs Administrators
Committee Chair: Prof. T. B. Lane

Wilkerson, Stacey Underwood
An Examination of History Narratives at Diversity Champion Institutions
Committee Chair: Prof. M. Pratt-Clarke

Woods, Johnny Crayd
(Un)Bundling the Black Experience at PWIs: Using Assets-based Frameworks to Explore the Lived Experiences of Black Sub-Saharan African-born Graduate Students in STEM
Committee Chair: Prof. H. G. Murzi Escobar

HUMAN DEVELOPMENT

El Helou, Lea
"I Want To Be Free The Lebanese Way": An Interpretative Phenomenology Examination of Lebanese American Queer Youth's Experiences of Family Secrecy
Committee Chair: Prof. A. L. Few-Demo
King, Ashley Ayn  
Therapists' Use and Management of Eating Disorder Lived Experience in the Treatment of Clients with Eating Disorders  
Committee Chair: Prof. J. M. Russon

McGregor, Casey Marie  
Intensive Mothering Attitudes and Children's Executive Function: The Role of Parenting Stress  
Committee Chair: Prof. J. A. Arditti

Stucki, Bradford David  
Grandfamilies, Grandchild Adverse Childhood Experiences, and Formal Services: An Examination of Needs, Experiences, and Best Practices  
Committee Chair: Prof. M. L. Dolbin-MacNab

**RHETORIC AND WRITING**

Fernandes, Margaret Burke  
Making Sense of Digital Content  
Moderation from the Margins  
Committee Chair: Prof. J. Sano-Franchini

Homer, Matthew Jordan  
Towards a Decolonial Haole Rhetoric  
Committee Chair: Prof. J. Sano-Franchini

Mengert, Julie Lynn  
From Surviving to Metaviving: A New Rhetorical Formation in Metastatic Breast Cancer Patient Discourse  
Committee Chair: Prof. K. E. Pender

**SCIENCE AND TECHNOLOGY STUDIES**

Koopman, Kristen Allison  
Who Speaks Truth to Fiction? Scientific Authority and Social Difference in Speculative Fiction  
Committee Chair: Prof. J. H. Collier III

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

Park, Seohyun  
Damming the Nation: How Engineers Transformed Rivers into Water Tanks for Modern South Korea  
Committee Chair: Prof. G. L. Downey and Prof. M. Wisnioski

**SOCIAL, POLITICAL, ETHICAL, AND CULTURAL THOUGHT**

Burkette, Jerry W.  
Utopian Hope vs. Merely-Political Combat: Directionality for the Kingdom of God  
Committee Chair: Prof. B. L. Shadle

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

Wheeler, Zachariah William  
An Inconvenient Coalition: Climate Change and Democratic Party Elite Discourse on Class, 1988-2008  
Committee Chair: Prof. A. J. Scerri

**SOCIOLOGY**

Faircloth, Melissa  
Examining the Impact of Indigenous Cultural Centers on Native Student Experience  
Committee Chair: Prof. S. R. Cook and Prof. D. L. Brunsma

Giles, Sarah Elizabeth Tally  
Policy and Health (In)Equities Among Native Elders  
Committee Chair: Prof. T. M. Calasanti
McGlamery, Steven M.
Committee Chair: Prof. D. L. Brunsma

Robertson Foncette, Leslie-Ann C.
The Sexual Agency of Adolescent Girls: A Case Study of Trinidad and Tobago
Committee Chair: Prof. A. N. Baldwin

**COLLEGE OF NATURAL RESOURCES & ENVIRONMENT**

**FORESTRY AND FOREST PRODUCTS**

Datsko, Jill Marie
Methods for the Spatial Modeling and Evaluation of Tree Canopy Cover
Committee Chair: Prof. R. H. Wynne and Prof. V. A. Thomas

Garren, Austin Mack
Evaluating Energywood Harvesting Operations in The Lower Mid-Atlantic Region of the United States
Committee Chair: Prof. M. C. Bolding

Hawks, Brent Steven
Potential Effects of Forestry Best Management Practices and Implementation Rates on Soil and Water Resources in the Southeastern United States
Committee Chair: Prof. W. M. Aust and Prof. M. C. Bolding

Lee, Soohyung
Development of Light Weight Plastic Pallet Using Carbon Materials and Evaluation for Natural Fiber
Committee Chair: Prof. Y. T. Kim

**COLLEGE OF SCIENCE**

**BIOLOGICAL SCIENCES**

Ahuja, Shreya
A Proteomics-based Study to Investigate the Role of Neural Niche in the Development of Metastatic HER2+ Breast Cancer
Committee Chair: Prof. M. I. Lazar

Dye, Keane
Investigating the Regulation and Inhibition of the Type IV Pilus Assembly ATPase PilB
Committee Chair: Prof. Z. Yang

Gendreau, Kerry
Molecular Basis of Tetrodotoxin Resistance in Reptiles and Amphibians
Committee Chair: Prof. J. W. McGlothlin

Hines, Ian Samuel
Studies of the Host-microbe Relationship in Aquaculture-raised Animals
Committee Chair: Prof. A. M. Stevens

Semel, Meredith Anne
Integrative Perspectives of Wild and Captive Sifaka Conservation
Committee Chair: Prof. I. T. Moore

Sobe, Richard Charles
Characterization of Molecular Components and Mechanisms of Function in the Bacterial Glagella of Sinorhizobium meliloti
Committee Chair: Prof. B. Scharf

**CHEMISTRY**

Archer, William Ryan
Developing Materials for Rare-Earth Element Chelation: Synthesis, Solution Thermodynamics, and Applications
Committee Chair: Prof. M. Schulz
Bonnett, Brittany Lauren
Investigating the Parameters of Metal-organic Framework Crystal Growth Control for Reverse Osmosis Membrane Nanofillers and Direct Air Capture of CO2
Committee Chair: Prof. A. Morris

Cornell, Hannah D.
A Green Light at the Intersection of Metal-Organic Frameworks for Drug Delivery
Committee Chair: Prof. A. Morris

Foster, Daniel John
Development of Potent Inhibitors of the Sphingosine-1-Phosphate Transporter Spns2 for the Treatment of Multiple Sclerosis
Committee Chair: Prof. W. Santos

Gibbons, Bradley James
Intrinsic and Extrinsic Catalysis in Zirconium-based Metal-Organic Frameworks
Committee Chair: Prof. A. Morris

Guo, Dong
Block Copolymer-derived Porous Polyimides and Carbon for High-Performance Energy Storage
Committee Chair: Prof. G. Liu

Huang, Rong
Antioxidant Studies of Fullerene and Metallofullerene Derivatives and Fluorescence Studies of Terbium-containing Metallofullerene Derivatives
Committee Chair: Prof. H. C. Dorn

Jones, Nathan Ballard
Surface Interactions of Diborane
Committee Chair: Prof. J. R. Morris

Korovich, Andrew George
Probing Morphology, Transport and Local Intermolecular Interactions in Polymeric Materials via NMR Diffusometry and Spectroscopy
Committee Chair: Prof. L. A. Madsen

Liu, Tianyi
Studies of Sustainable Polymers: Novel Lignins to Reprocessable Polymers
Committee Chair: Prof. A. R. Esker

Maynes, Andrew John
Spectroscopic Studies of Small Molecule Oxidation Mechanisms on Cu/TiO2 Aerogel Surfaces
Committee Chair: Prof. J. R. Morris

Nichols, Brittany Lynn
Expanding the Potential of Polysaccharide Based Materials for Therapeutic Delivery Applications
Committee Chair: Prof. K. J. Edgar

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

Peyton, Benjamin Gilbert
The Efficient Computation of Field-Dependent Molecular Properties in the Frequency and Time Domains
Committee Chair: Prof. D. Crawford

Serrano, Joel Marcos
Block Copolymer Derived Porous Carbon Fiber for Energy and Environmental Science
Committee Chair: Prof. G. Liu

Szwetkowski, Connor
Selective Borylations of Carbon-Carbon pi-Bond Scaffolds
Committee Chair: Prof. W. Santos

**ECONOMICS, SCIENCE**

Banasaz, Mohammad Mahdi
Volatility Modeling and Risk Measurement Using Statistical Models Based on the Multivariate Student's t Distribution
Committee Chair: Prof. A. Spanos
Bazan Ruiz, Muchin Isabel Ayen
Essays in Education and Gender
   Committee Chair: Prof. S. Sarangi and Prof. S. Hari

Cai, Yichuan
Essays in Multi-Battle Contests
   Committee Chair: Prof. S. Sarangi

Jiang, He
Essays on Social Capital and Peer Effects
   Committee Chair: Prof. X. Lin

Liu, Yaojun
The Alternative-Dependent Focal Luce Model and Asymmetric Dynamic Patent Race
   Committee Chair: Prof. S. Sarangi

Moon, Hyeran
Mechanism Designing in the Microeconomic Studies
   Committee Chair: Prof. H. H. Haller and Prof. E. A. Bahel

Song, Chang Geun
Three Empirical Analyses of Voting
   Committee Chair: Prof. T. N. Tideman

Wang, Haoyu
Essays in Game Theory and Forest Economics
   Committee Chair: Prof. G. S. Amacher and Prof. E. A. Bahel

GEOSCIENCES

Hoffman, Devin Kane Fodor
Evolution in Biological Radiations; Insights from the Triassic Archosaur Radiation
   Committee Chair: Prof. S. J. Nesbitt

Kaempfe Drogueett, Sebastian Andres
Multi-scale Deep-marine Stratigraphic Expressions in the Cretaceous Magallanes Basin, Chile: Implications for Depositional Architecture and Basin Evolution
   Committee Chair: Prof. B. W. Romans

Leroy, Matthew Alexander
A Multiproxy Investigation of Oceanic Redox Conditions During the Cambrian SPICE Event
   Committee Chair: Prof. B. C. Gill

Wynd, Brenen Michael
The Evolution of Convergence, Growth, and Diet Under an Adaptive Landscape Framework
   Committee Chair: Prof. S. J. Nesbitt

MATHEMATICS

Goodberry, Benjamin Nathaniel
Partially-Symmetric Macdonald Polynomials
   Committee Chair: Prof. D. D. Orr

Kshirsagar, Rutuja Milind
Graph-based and Algebraic Codes for Error-correction and Erasure Recovery
   Committee Chair: Prof. G. L. Matthews

Murphy, Aidan W.
Codes From Norm-trace Curves: Local Recovery and Fractional Decoding
   Committee Chair: Prof. G. L. Matthews

Oetjen, David Christopher
Cotangent Schubert Calculus in Grassmannians
   Committee Chair: Prof. C. L. Mihalcea

Sovine, Sean Russell
Bounds for Bilinear Analogues of the Spherical Averaging Operator
   Committee Chair: Prof. E. A. Palsson

PHYSICS

Czak, Jason Edward
A Study of the Effects of Spatially Localized Time-delayed Feedback Schemes on Spatio-temporal Patterns
   Committee Chair: Prof. M. J. Pleimling
Lim, Youngmin  
Decoherence of Transverse Electronic Spin Current in Magnetic Metals  
Committee Chair: Prof. S. Emori

Smith, David Acoya  
Taking Steps Towards Superfluid-like Spin Transport in Metallic Ferromagnets  
Committee Chair: Prof. S. Emori

Stidham, James Edward  
Ordering Processes and Pattern Formation in Systems Far From Equilibrium  
Committee Chair: Prof. M. J. Pleimling

Stottler, Zachary Shaun  
Bottomonium Spectroscopy at Belle: Studies of Radiative and Hadronic Transitions  
Committee Chair: Prof. L. E. Piilonen

Wang, Yifei  
High Performance Broadband Photodetectors Based on Graphene/Semiconductor Heterostructures  
Committee Chair: Prof. V. Nguyen

PSYCHOLOGY

Albright, Jordan  
A Latent Class Analysis of Professional Development Opportunities for Special Education Teachers in Rural School Districts: Implications for Preventing Attrition  
Committee Chair: Prof. A. Scarpa-Friedman

Antezana, Ligia Danitsa  
Cognitive and Affective Pathways to Nonsuicidal Self-Injury in Youth  
Committee Chair: Prof. J. A. Richey

Bruce, Madeleine Diane  
From Terrible Twos to Sassy Sixes: The Development of Vocabulary and Executive Functioning Across Early Childhood  
Committee Chair: Prof. M. Bell

Burns, Derek Allen  
Stability of Psychosocial Work Characteristic Profiles and Physiological Outcomes: A Latent Profile Transition Analysis  
Committee Chair: Prof. R. J. Foti

Dahiya-Singh, Angela Verma  
Providing Telehealth Support for Parents of Autistic Children Using a Mobile App  
Committee Chair: Prof. A. Scarpa-Friedman

Gatto, Alyssa Jo  
Development and Preliminary Testing of an Online Brief Emotion Regulation Training (BERT) Program for Emerging Adults  
Committee Chair: Prof. L. D. Cooper and Prof. J. C. Dunsmore

Kissel, Heather Ann  
I Can See What You Are Feeling, But Can I Feel It? Physiological Linkage While Viewing Communication of Emotion Via Touch  
Committee Chair: Prof. B. H. Scarpa-Friedman

McFayden, Tyler Christine  
The Impact of Birth Order on Language Development in Children with Autism Spectrum Disorder in Simplex Families  
Committee Chair: Prof. T. H. Ollendick

Nackley, Brittany Burch  
Putting the Body Back Together: A Functional Autonomic Model of Interoception  
Committee Chair: Prof. B. H. Scarpa-Friedman

Peviani, Kristin Marie  
A Developmental Cascade Model of Maltreatment, Delay Discounting, and Health Behaviors Across Adolescence and Young Adulthood  
Committee Chair: Prof. J. Kim-Spoon
Rost, Emily Alexis  
The Association of Microbreaks with Work Performance: A Self-Determination Theory Perspective  
Committee Chair: Prof. C. Calderwood

Tankersley, Amelia Prieur  
The Relationship Between State-Level Policy and Mental Health Among Sexual Minority Youth in the United States  
Committee Chair: Prof. R. T. Jones

STATISTICS

Hu, Zhihao  
Contributions to Efficient Statistical Modeling of Complex Data with Temporal Structures  
Committee Chair: Prof. C. J. Kuhlman and Prof. X. Deng

Smith, John William  
Ecosystem Models in a Bayesian State Space Framework  
Committee Chair: Prof. R. Q. Thomas and Prof. L. R. Johnson

INTERDISCIPLINARY DEGREES

INDIVIDUAL INTERDISCIPLINARY PHD

Cash, Alison Margaret  
Endothelial Cell-Specific Eph Receptor: A Novel Mediator of Blood Brain Barrier Disruption Following Traumatic Brain Injury  
Committee Chair: Prof. M. H. Theus

Franchini, Alessandra  
The Longitudinal Outcome of Canine Myxomatous Mitral Valve Disease in Dogs: The LOOK Mitral study  
Committee Chair: Prof. M. Borgarelli

Oakes, Vanessa Jacqueline  
Theileria orientalis Ikeda Genotype: Implications for Cattle Health in Virginia  
Committee Chair: Prof. K. K. Lahmers

INTERDISCIPLINARY COLLEGE OF VETERINARY MEDICINE
BIOMEDICAL & VETERINARY SCIENCES

Bracci, Nicole Rose  
Understanding Host-Pathogen Interactions of Rift Valley Fever Virus That Contribute to Viral Replication  
Committee Chair: Prof. K. W. Kehn-Hall

THE VIRGINIA-MARYLAND COLLEGE OF VETERINARY MEDICINE
MACROMOLECULAR SCIENCE AND ENGINEERING

Kasprzak, Christopher Ray  
Synthetic Design of Multiphase Systems for Advanced Polymeric Materials  
Committee Chair: Prof. R. B. Moore III
Novy, Melissa Hoang Lan  
Structure-Morphology-Property Relationships in Perfluorosulfonic Acid Ionomer Dispersions, Membranes, and Thin Films to Advance Hydrogen Fuel Cell Applications  
Committee Chair: Prof. R. B. Moore III

Sutliff, Bradley Phillip  
High Shear Flow Properties of Nanocellulose  
Committee Chair: Prof. M. J. Bortner

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

Fergusson, Austin David  
Small Solutions to Big Problems: Design and Synthesis of Nanoparticles for Biomedical Applications  
Committee Chair: Prof. R. M. Davis

George, Kijana Kaaria  
The Role of Blood-borne Factors in Triggering Atypical Astrocytes  
Committee Chair: Prof. S. Robel

Grieco, Joseph Patrick  
Mitochondrial Quality Control Adaptations Support Malignant Progression of Serous Ovarian Cancer Cells and Spheroids  
Committee Chair: Prof. E. M. Schmelz

Padget, Rachel Lee  
Arrhythmogenic Mechanisms of Acute Cardiac Infection  
Committee Chair: Prof. J. Smyth

Somaiya, Rachana Deven  
Role of Retinal Inputs and Astrocytes in the Neurodevelopment of Mammalian Visual Thalamus  
Committee Chair: Prof. M. A. Fox

Studtmann, Carleigh  
Diverse Mechanisms Impair Thalamic Circuit Function in a Dravet Syndrome Mouse Model  
Committee Chair: Prof. S. A. Swanger

Tsyglakova, Mariya  
A Role for Microglia Activation in Modulating Behavior in a Variable Stress Model for Depression  
Committee Chair: Prof. G. E. Hodes

DOCTOR OF EDUCATION  
COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES  
EDUCATIONAL LEADERSHIP AND POLICY STUDIES

Alexander, Le-Zondra  
The Practices of Speech-Language Pathologists Supporting the Acquisition of Skilled Reading in Public Schools  
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Allard, Jennifer Evans  
Hyperaccleration in Secondary Mathematics  
Committee Chair: Prof. C. S. Cash and Prof. J. R. Gratto

Badger, Susan Carol  
An Investigation into How Education Leaders Supported Teachers to Effectively Teach Online During a Global Pandemic  
Committee Chair: Prof. C. A. Mullen
Ball, Miranda Myers
K-12 Public School Teacher Perceptions Regarding Their Experiences as Instructors Who Volunteered to Teach in the Online Learning Environment in 2020-2021
   Committee Chair: Prof. M. D. Alexander

Barker, Darwin Robert
Effective Principal Leadership Practices to Minimize Achievement Gaps
   Committee Chair: Prof. J. L. Brinkmann and Prof. J. R. Gratto

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

Cox, Judy Smith
The Impact of Principals' Instructional Leadership Practices on Student Achievement in Title I Schools in a Virginian Division
   Committee Chair: Prof. C. A. Mullen

Dahl, Jill Danielle
The Relationship Between High School Teachers' Self-Reported Social and Emotional Competencies and Teacher Social and Instructional Teaching Practices and the Implications for Professional Learning
   Committee Chair: Prof. T. S. Price

Dixon, Ajamu Adofo
African American Males' Perceptions of Factors Aiding Their Completion of High School: A Population from Single Parent Homes
   Committee Chair: Prof. M. D. Alexander

Downing, Angilee Mills
Investigating Disproportionality in Discipline Referrals for Disruptive Behavior and Association with Race, Gender, and Academic Achievement: Impact on Black Males
   Committee Chair: Prof. C. A. Mullen

Edmunds-Heard, Terri Lynn
Experiences in the Principalship for African American Females
   Committee Chair: Prof. J. L. Brinkmann

El-Nemr, Khaled Walid
School Building Conditions' Influences on Student Behavior in a Medium-Sized Division in Virginia
   Committee Chair: Prof. T. S. Price

Fallen, Mattie Thompson
Supporting Novice Teachers Through Quality Mentoring and Induction in the Workplace
   Committee Chair: Prof. C. A. Mullen

Fobare, Corey Scott
The Consolidation of Alleghany County and Covington City Public Schools: A Case Study
   Committee Chair: Prof. M. D. Alexander

Grimm, Martin Edward
High School Principals' Perceptions on the Readiness of School Culture for Implementation of the Multi-Tiered Systems of Support Framework
   Committee Chair: Prof. T. S. Price

Jarman, David R.
Disproportionality of Males in Special Education
   Committee Chair: Prof. J. L. Brinkmann

Jones, Courtney Elizabeth
A Study in Leadership Practices That Cultivate Elementary School Teachers Well-being During a Global Pandemic
   Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Nycum, James Franklin
Twenty-first Century Skills: Preparing High School Graduates for Success Through a Senior Project
   Committee Chair: Prof. C. A. Mullen
Peterson, Braden Jeffrey
Principal's Perception of Social Emotional Learning in High Achieving High Schools
Committee Chair: Prof. T. S. Price

Runkle, Marya Anne
Case Study of the Factors Contributing to Graduation from a Secondary Dropout Prevention Program
Committee Chair: Prof. C. S. Cash

Salley, Parcilla
The Perceptions of Teachers Regarding the Instructional Practices and School Leadership Supports That Contributed to High Algebra I Success Rates for Minority Students in Rural Schools
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Slater, Tamara Lee
Elementary Turnaround Principals' Leadership Practices Related to Reading Achievement
Committee Chair: Prof. T. S. Price

Smith, Natia Keem
Middle School Leaders' Responsiveness to the Needs of the Sixth Grade Student Transitioning to Middle School in Two Virginia School Divisions
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Tarpley, Cynthia Annette
Factors Impacting the Effectiveness of Co-Teaching in the Inclusion Setting within K-12 Schools
Committee Chair: Prof. M. D. Alexander and Prof. J. L. Brinkmann

Thayer, Myra Lynn
Synergies of Education Stakeholders in Supporting Elementary Science: A Qualitative Study
Committee Chair: Prof. C. A. Mullen

Tyler, Millicent Denise
An Examination of Alternative Educational Leadership
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Walker, Brandi C.
Factors That Lead to Teachers Accepting, Remaining in a High-Poverty, Low-Performing School Division
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

Zayatz, Amanda Collins
Teacher Perceptions of Social Emotional Learning Program Implementation and Sustainability in One School Division in Northern Virginia
Committee Chair: Prof. T. S. Price

EDUCATION SPECIALIST
COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES
EDUCATIONAL LEADERSHIP AND POLICY STUDIES

Hundley, Sharon Elaine
Parmar, Nikita Sunil
Riganti, Heather Victoria
Stanley, Tamarah Renee
MASTER’S DEGREES

COLLEGE OF AGRICULTURE AND LIFE SCIENCES

MASTER OF SCIENCE

AGRICULTURAL AND APPLIED ECONOMICS
Mbarushimana, Jean Claude

AGRICULTURAL AND LIFE SCIENCES
Burns, Pamela J.
Hoffman, Kimberly D.
Murphy, Storm Michael
Myers, Korbin Wade
Rutherford, Sara Riggan
Smith, Kaitlin Ann
Steinbach, Rachel Anne
Tsao, Lauren Elaine
Wesner, Courtney Gail

ANIMAL AND POULTRY SCIENCES
Gustin, Aspen Leigh
Landivar, Mathew David
Naughton, Samantha Grace
Sauder, Brooke Skyler

Schmidt, Therese Elizabeth
Soffa, Dallas Rae

CROP AND SOIL ENVIRONMENTAL SCIENCES
Beall, Michael Christian
Hoyt, Cameron Michael

HUMAN NUTRITION, FOODS AND EXERCISE
DeNunzio, Maria Nicole
Gregg, Morgan
Hines, Deena Sbitany

MASTER OF SCIENCE IN LIFE SCIENCES BIOCHEMISTRY
Britt, Korbiss Amelia
Collins, Erin Taylor
Tunckanat, Taylan
Williams, Kevin J.
Wooldridge, Rowan Scott

DAIRY SCIENCE
Galyon, Hailey Roselea

ENTOMOLOGY
Tanelus, Manette
Wilczek, Daniel Kaye
FOOD SCIENCE AND TECHNOLOGY
Canty, Ellise Adia
Cole, Elizabeth Jane
Garcia, Jose Octavio
James, Cierra Alisha
Kesselring, Julia Jiang Hao

MASTER OF SCIENCE IN NUTRITION AND DIETETICS
Brown, Noelle Carolyn
Buynak, Karen Stephanie
Ferguson, Spencer Norman
Kelley, Allison Janis
McBain, Cassidy Anne
Ruske, Caitlin Alexandra
Esubalew, Carina Delelegne
Fuhrman, Bradley Scott
Gedeo, Adele Marguerite
Hamilton, Rachel Leigh
Hammond, Perry Jordan
Kuhn, Alexander Rudolf
Li, Nong
Mattson, Thomas Michael
McKnight, Julian Ethan
MontazeriNamin, Darya
Pollack, Shelby Marie
Saeidi, Roya
Smith, Ariana Nicole
Sooksengdao, Brittney Tidavanh
Spruill, Raymond Taylor
Tampubolon, Jennifer I.
Taylor, Kennard Kyle
Toscano Jaramillo, Erika
Vermillion, Emma Flower

COLLEGE OF ARCHITECTURE AND URBAN STUDIES

MASTER OF ARCHITECTURE
Alnajidi, Najd Hamad S.
Bhavsar, Astha Jatin
Borowiec, Gabriela Anna
Coleman, Erin Ashley
Cross, Carolyn Page
Cross, Philip Edward
Curtis, Charles Ethan

MASTER OF FINE ARTS
CREATIVE TECHNOLOGIES
Corrigan, Nicholas Aaron
Eddy, Adam M.
Link, Joseph Nehemiah
Shokhov, Nikita
MASTER OF LANDSCAPE ARCHITECTURE

Harrington, Hayley K.
Shelburne, William Robert

MASTER OF PUBLIC ADMINISTRATION

PUBLIC ADMINISTRATION/PUBLIC AFFAIRS

Castaneda, Maribel Romero
Collins, Stephanie S.
Cooke, Olivia Nyland
Duran Fernandez, Cristobal Sebastian
Fields, Grant A.
Frijas, Jordanny Zabarte
Furrow, Kari Lynne
Heo, James
Manteghi, Mohsen
Peace, Jonathon Trey
Price, Regan Virginia
Quill, Elizabeth A.
Reeger, Claire Ann
Roman, Joseph Robert
Simpson, Stephanie Lynn
Veillette, Nathalie
Webber, Stephen Albert
Woods, Jon Dillon

MASTER OF PUBLIC AND INTERNATIONAL AFFAIRS

Bennett, Gabriel R.
McLendon, Stephen Andrew
Sholl, Stephen Travis
Wedrosky, Tyler Raymond
Zhou, Yue

MASTER OF SCIENCE ARCHITECTURE

Kaulaskar, Ameya Lokesh
Reinhart, Matthew Thomas
Reiss II, Matthew William

MASTER OF SCIENCE BUILDING/CONSTRUCTION SCIENCE AND MANAGEMENT

Alamri, Uthman Abdullah
Borowiec, Gabriela Anna
Patel, Chiravi Gopesh
Pruitt, Jacob Wyatt
Seo, Miran
Spruill, Raymond Taylor
Yang, Yizhou

MASTER OF URBAN AND REGIONAL PLANNING

Cannon, Brad Richard
Curry, Sara Elizabeth
Curtis, Danielle Erin
Dillon, Maxwell Stewart
Fulton, Frances Noelle
Gordner III, Gerald Marvin
Hanson, Elizabeth Bailey
Kearns, Griffin Patrick
Nowaczyk, Adam Joseph
Stinnette, Alison Nicole
Viola, Marco Willhoit
Walbridge, Tia Lynn
Woodson, Caitlin Marie

Gifford, Joshua Charles
Griffith, Matthew Edward
Harless, Ethan Mark
Holtkamp, Georgia Leigh
Keener, Maria Osborne
Kessinger, Christian Andrew
Lopes, Shane Thomas
Lorens, Daniel James
Malina, Tyler David
Martin, Reagan Noel
Maurer, Ashlee Marie
Mensah, Josephine Acheampong
Miller, Steven Ryan
Moran IV, Daniel Joseph
Nicholson, Kyle David
Niemeyer, Jacob Douglas
O'Toole, Anthony Joel
Pape, Nicole Autumn
Resco, Kayla Ashe
Roldan, Victoria Marie
Sapeta, Olivia Katherine
Shiveley, Grace Marie
Simmers, Alexis Taylor
Smith, Christian Alexander
Souders, Madison Elizabeth
Spiers, Tyler Sutherland
Tuggle, Austin Jeffrey
Tyson, Jack Gallien
Ubelhart, Justin Stewart
Underwood, Jamie Michelle
Vaughan, William Austin
Weddle, Kimberly Caudill
Wright, Justin M.
Wu, Yi
Zhang, Zhenghao
Zoury, Hassebullah

MASTER OF BUSINESS ADMINISTRATION
Abass, Amina Kinsi
Alexander, Brian Walker
Ali, Gulnaz
Bailey, Joshua Burnette
Clapperton, William James
Costantino, Matthew Lee
Fox, Albert Patrick
Fulton, Christopher Thomas
Garcia, Branco Mauricio
Gargan, Jennifer Renee
Hwang, Austin J.
Isom, Jennifer Stachowiak
Kregg, Marshall Anthony
Kupski, Cynthia Ann
Leaman, Joel Philip
Libby, Christian Taylor
McIntosh, Kelsey Jordan
Merchant, James Samuel

Minnick, Danielle Nicole
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COMPUTER SCIENCE AND APPLICATIONS
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Keen, Tanner Caleb
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Bergeron, Jeremiah Paul
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Brown, Stefanie Osfolk
Chapleau, Collin James
Cho, Victor
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Day, Jeffrey Robert
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MEDICINE AND HEALTH

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Shaw, Anna A.

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Mudali, Hindira Santhaseyan
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Stonebraker, Jonathan David
Yang, Eric Gregory

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Berhane-Andu, Alfa
Brown, Derek Troy
Park, Justin Joon Hyung

CYBERSECURITY POLICY
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Bangura, Johnathan M.
Cho, Victor
Cisco, Elikemi
Daigle, Alan Russell
Duso, Adam John
Ehrlich, William Daniel
Garcia, Bryan Jarrell
McCarty, Helen Maria

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Kirkpatrick, Daniel Clark
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Lewis, Daniel Jameson
Macht, William Charles Ahlers
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Bautista, Madison J.

GLOBAL SUSTAINABILITY

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