SPRING 2021

THE GRADUATE SCHOOL
Dean Karen P. DePauw
DOCTOR OF PHILOSOPHY

COLLEGE OF

AGRICULTURE AND

LIFE SCIENCES

AGRICULTURAL AND

EXTENSION EDUCATION

Kuri, Subrato Kumar
Exploring Teaching Practices of the Agricultural Education at Bangladesh Agricultural University (BAU)
Committee Chair: Prof. K. A. Vines

ANIMAL AND

POULTRY SCIENCES

Cao, Chang
Hypothalamic Mechanisms of Appetite Regulation Involve Stress Response and Epigenetic Modification
Committee Chair: Prof. M. A. Cline

Davis, Ty Chapman
Strategies to Improve Reproductive Efficiency in Cattle with Dietary Intervention
Committee Chair: Prof. R. White

Gleason, Claire Burke
Improving the Understanding of Factors Driving Rumen Fermentation
Committee Chair: Prof. R. White

White, Mallory Beth
In Ovo and Feed Application of Probiotics or Synbiotics and Response of Broiler Chicks to Post-hatch Necrotic Enteritis
Committee Chair: Prof. R. A. Dalloul

BIOCHEMISTRY

Eilerts, Diane Francine
Biological Rhythms in Aedes Aegypti Mosquitoes
Committee Chair: Prof. C. Vinauger Tella

Salsbury, Alexa Marie
Exploring the Forces Underlying the Dynamics and Energetics of G-quadruplexes with Polarizable Molecular Dynamics Simulations
Committee Chair: Prof. J. A. Lemkul

Valentino, Hannah Rachel
Flavin-dependent Enzymes in Natural Product Biosynthesis
Committee Chair: Prof. P. Sobrado

ECONOMICS

Kesiz Abnousi, Vartan
Modern Econometric Methods for the Analysis of Housing Markets
Committee Chair: Prof. K. Moeltner

ENTOMOLOGY

Britt, Kadie Elizabeth
Insect Pest Management in Hemp in Virginia
Committee Chair: Prof. T. P. Kuhar

Catron, Katlyn Amos
Biology of Chauliognathus spp. (Coleoptera: Cantharidae) in Virginia Agroecosystems
Committee Chair: Prof. T. P. Kuhar

Hadden, Whitney Taylor
Habitat and Host Plant Effects on the Seasonal Abundance of Halyomorpha halys (Hemiptera: Pentatomidae) Among Fruit Orchards in Northern Virginia
Committee Chair: Prof. J. C. Bergh and Prof. T. C. Leskey
Masri, Reem Abed
Chromosome and Genome Evolution in Culicinae Mosquitoes
Committee Chair: Prof. M. V. Sharakhova

FOOD SCIENCE AND TECHNOLOGY

Hurley, Eldon Kenneth
Modification of Fermentation by Exogenous Energy Input
Committee Chair: Prof. R. C. Williams

Vieira Carneiro, Renata Caroline
Sensory and Consumer Studies As a Guide for Edamame Development and Production in the U.S.
Committee Chair: Prof. S. E. Duncan and Prof. S. F. O'Keefe

HORTICULTURE

Kiremit, Merve
Bacterial Fruit Blotch Disease of Cucurbits
Committee Chair: Prof. G. E. Welbaum

Liu, Danyang
Evaluation of Anaerobic Soil Disinfestation Using Brewers Spent Grain and Yeast Inoculation in Annual Hill Plasticulture Strawberry Production
Committee Chair: Prof. J. B. Samtani

HUMAN NUTRITION, FOODS AND EXERCISE

Fausnacht, Anna Gustafson
Human Behavior and Community Science
Committee Chair: Prof. V. E. Hedrick

Jaskowak, Daniel Joseph
The Use of Trunk-Mounted Accelerometers

for Neuromuscular Testing in Collegiate Women's Soccer
Committee Chair: Prof. J. H. Williams

Lewis, Marc Theron
Athlete Monitoring in American Collegiate Football
Committee Chair: Prof. J. H. Williams

PLANT PATHOLOGY, PHYSIOLOGY AND WEED SCIENCE

Brewer, John Richard
Optimizing Topramezone and Other Herbicide Programs for Weed Control in Bermudagrass and Creeping Bentgrass Turf
Committee Chair: Prof. S. D. Askew

Craft, Jordan Michael
Factors Governing Zoysiagrass Response to Herbicides Applied During Spring Green-up
Committee Chair: Prof. S. D. Askew

Garcia Gonzalez, Jose Francisco
Investigating Management Alternatives for Southern Blight on Vegetables in the mid-Atlantic United States
Committee Chair: Prof. S. L. Rideout and Prof. D. B. Langston, Jr.

Greene, Wykle Cleavon
Evaluation of Florpyrauxifen-benzyl for Use in Pastures and Hayfields
Committee Chair: Prof. M. L. Flessner

Kaur, Navjot
Genotypic Characterization and Fungicide Resistance Monitoring for Virginia Populations of Parastagonospora nodorum in Wheat
Committee Chair: Prof. D. C. Haak
Lakoba, Vasiliy Tarasovich
Ecotypic Variation in Johnsongrass In Its Invaded U.S. Range
Committee Chair: Prof. J. Barney

Pack, Erica Danielle
Zearalenone Contamination in Swine Feed and the Effects on Reproductive Health
Committee Chair: Prof. R. De Vita and Prof. D. G. Schmale III

Wei, Xing
Management of Stem Rot of Peanut Using Optical Sensors, Machine Learning, and Fungicides
Committee Chair: Prof. D. B. Langston, Jr. and Prof. S. Li

Lee, Hana
A Collective Sense of Place and the Image of the City @ Urban Public Spaces
Committee Chair: Prof. M. Kim

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

Terim, Berrin
Filarete's Body: Unpacking the Pregnancy Analogy in the Renaissance Patronage Context
Committee Chair: Prof. P. F. Emmons

COLLEGE OF ARCHITECTURE AND URBAN STUDIES

ARCHITECTURE AND DESIGN RESEARCH

Bogis, Abdulmueen Mohammed
Ecological and Aesthetic Factors Preferences of Urban Riparian Corridor in Arid Regions: A Visual Choice Experiment
Committee Chair: Prof. D. R. Bork and Prof. M. Kim

Fateminabas, Seyedreza
A Framework for Simultaneously Addressing Qualitative and Quantitative Decision-making Criteria During the Early Stages of the Design Process
Committee Chair: Prof. J. R. Jones

Green, Tuwanda Lee
Healthy by Design: Development of a Biophilia Design Decision Framework
Committee Chair: Prof. J. R. Jones

ENVIRONMENTAL DESIGN AND PLANNING

Barnes, Andrew Floyd
Instructional Video Object-Based Learning in a Flipped Construction Management Classroom
Committee Chair: Prof. A. P. McCoy

Jeddi Yeganeh, Armin
Pathways to Sustainable Housing
Committee Chair: Prof. A. P. McCoy

Shealy, Elizabeth Carlisle
Designing Outdoor Spaces to Support Older Adult Dog Walkers: A Multi-method Approach to Identify and Prioritize Features in the Built Environment
Committee Chair: Prof. A. R. Pearce
PLANNING, GOVERNANCE, AND GLOBALIZATION

Boggs-Parker, Carmen Elana
Meeting the Self and the Other: Intercultural Learning During a Faculty-led Short-term Service-Learning Course to Belize
Committee Chair: Prof. M. O. Stephenson, Jr.

Jasper, Marc William
Prisoner Release as Conflict Management
Committee Chair: Prof. J. Peters

Montgomery, Cheryl Lynn
Imagining Community Otherwise: Black Women's Narratives of Race Place and Power in the Southern United States
Committee Chair: Prof. M. O. Stephenson, Jr.

Young, Arica Nicole
Social Capital in Cohousing: Understanding How One Community Builds Ties
Committee Chair: Prof. R. Buehler

PUBLIC ADMINISTRATION/PUBLIC AFFAIRS

Moore, John David
Making Sense of Networks: Exploring How Network Participants Understand and Use Information From Social Network Analysis
Committee Chair: Prof. M. O. Stephenson, Jr. and Prof. R. H. Lemaire

Nguyen, Thi Hong Nhung
Impact of Human Resource Management on Federal Employees' Positive Attitudes and Behaviors
Committee Chair: Prof. M. M. Dull

PAMPLIN COLLEGE OF BUSINESS

BUSINESS, ACCOUNTING AND INFORMATION SYSTEMS

Du Pon, Adam Watanabe
Competition, Cost Analytics, and Contrarian Strategies: Pressures and Opportunities on the Fraud Triangle
Committee Chair: Prof. R. H. Davidson

Truelson, Jonathan Michael Terry
Private-Client Industry Specialization and Public-Client Audit Quality
Committee Chair: Prof. L. L. Lisic

BUSINESS, EXECUTIVE BUSINESS RESEARCH

Ampofo, Akwasi Amankwaah
Two Essays on Capital Structure Decisions of the Firm: An Empirical Analysis of the Impact of Managerial Entrenchment and Ethical Corporate Citizenship
Committee Chair: Prof. R. Barkhi

Tuskey, Sarah Elizabeth
Identity at Work
Committee Chair: Prof. W. J. Becker

BUSINESS, HOSPITALITY AND TOURISM MANAGEMENT

Dallinger, Ioana
An Experimental Investigation Into the Timing of Service Failure Communication
Committee Chair: Prof. N. G. McGehee

Shin, Seunghun
Three Essays on Contextual Effects in Traveler's Use of Online Reviews
Committee Chair: Prof. Z. Xiang
Angarita, John Edward
Black-box System Identification and Fault Detection of Quadrotors
Committee Chair: Prof. J. T. Black

Masti, Robert Leo
The Effect of Anomalous Resistivity on the Electrothermal Instability
Committee Chair: Prof. B. Srinivasan

Michelen Strofer, Carlos Alejandro
Machine Learning and Field Inversion Approaches to Data-Driven Turbulence Modeling
Committee Chair: Prof. H. Xiao

Parsons, Mark Allen
Network-Based Naval Ship Distributed System Design and Mission Effectiveness Assessment Using Dynamic Architecture Flow Optimization
Committee Chair: Prof. A. J. Brown

Povolny, Stefan Jean-Rene
Investigating the Thermo-Mechanical Behavior of Highly Porous Ultra-High Temperature Ceramics Using a Multiscale Quasi-Static Material Point Method
Committee Chair: Prof. G. D. Seidel

Rathod, Chirag Sanjay
Examining Plasma Instabilities as Ionospheric Turbulence Generation Mechanisms Using Pseudo-Spectral Methods
Committee Chair: Prof. W. A. Scales and Prof. B. Srinivasan

Skamangas, Emmanuel Epaminondas
New Optimal-Control-Based Techniques for Midcourse Guidance of Gun-Launched Guided Projectiles
Committee Chair: Prof. C. A. Woolsey and Prof. J. T. Black

Wall, Dylan Joseph
Anisotropic Turbulence Modeling of Wakes in an Active Ocean
Committee Chair: Prof. E. G. Paterson

Wang, Hongyu
Discretization Error Estimation Using the Error Transport Equations for CFD Simulations
Committee Chair: Prof. C. J. Roy

Scherr, David Michael
Rapid High-Throughput Screening Methods for Monitoring Electron Transfer Reactions in Biological Systems and Microalgae Phenotyping
Committee Chair: Prof. R. S. Senger

Aviles, Jessica
From Lab to the Outdoors: Understanding Amputee Gait on Realistic Environments
Committee Chair: Prof. M. L. Madigan

Kieffer, Emily Elana
Sex-Specific Head Impact Exposure in Rugby: Measurement Considerations and Relationships to Clinical Outcomes
Committee Chair: Prof. S. Rowson, Jr.
**CHEMICAL ENGINEERING**

Boyce, Kennedy Rose  
Committee Chair: Prof. D. G. Baird

Chen, Han  
Experimental Adsorption and Reaction Studies on Transition Metal Oxides Compared to DFT Simulations  
Committee Chair: Prof. D. F. Cox

Naler, Lynette Brigitte  
Epigenomic and Transcriptomic Changes in the Onset of Disease  
Committee Chair: Prof. C. Lu

Zhang, Xiwen  
Structure Sensitivity of Alkanes Hydrogenolysis & Alkynes Hydrogenation on Supported Ir Catalysts  
Committee Chair: Prof. A. M. Karim

**CIVIL ENGINEERING**

Alazmi, Asmaa Salem  
Develop Empirical Models of Particulate Air Pollution in a Rural Appalachian Community  
Committee Chair: Prof. H. A. Rakha and Prof. S. C. Hankey, Jr.

Amarh, Eugene Annan  
Quantifying the Service Life and Potential Environmental Benefits of Asphalt Pavement Recycling  
Committee Chair: Prof. G. W. Flintsch

Bahrampouri, Mahdi  
Improving the Quantification of Uncertainties Necessary for Conducting Partially Non-ergodic PSHA  
Committee Chair: Prof. A. Rodriguez-Marek

Devine, Christina Laura  
Effects of Scale Reduction Technologies and Chemical Inhibitors on Calcium Precipitation in Premise Plumbing Systems  
Committee Chair: Prof. M. A. Edwards

Huang, Qishen  
Raman and Surface-Enhanced Raman Spectroscopy Imaging of Droplets: Characterization and Environmental Implications  
Committee Chair: Prof. P. J. Vikesland

Kim, Bumsik  
Modeling Automated Vehicles and Connected Automated Vehicles on Highways  
Committee Chair: Prof. K. P. Heaslip II
Lee, Michael
Rapid Prediction of Tsunamis and Storm Surges Using Machine Learning
Committee Chair: Prof. J. L. Irish

Parker, Emily Ann
Designing Smarter Stormwater Systems at Multiple Scales with Transit Time Distribution Theory and Real-Time Control
Committee Chair: Prof. S. Grant

Santizo, Katherine Yoana
Attenuation and Mixing of Upwelling Groundwater Contaminants in the Hyporheic Zone
Committee Chair: Prof. E. T. Hester

Shrestha, Shivesh
Incorporation of the Traffic Speed Deflectometer Measurements into a Pavement Management System
Committee Chair: Prof. G. W. Flintsch

Hassan, Mohamed Wasfy Abdelfattah
Using Workload Characterization to Guide High-Performance Graph Processing
Committee Chair: Prof. P. M. Athanas

Mayalu, Alfred Kulua
Beyond LiDAR for Unmanned Aerial Navigation in GPS Denied Environments
Committee Chair: Prof. K. B. Kochersberger

Tolley, Joseph Daniel
Security, Authenticity, and Trust Application and Analysis for Spectrum Access Systems
Committee Chair: Prof. C. B. Dietrich, Jr. and Prof. C. D. Patterson

Wang, Congchao
Automated Tracking of Mouse Embryogenesis from Large-scale Fluorescence Microscopy Data
Committee Chair: Prof. G. Yu

Wang, Yinxue
Automated Tracking and Motility Analysis of Motile Oligodendrocyte Precursor Cells (OPCs) from Time-Lapse Microscopic Imaging Data of Cell Mixture in vivo
Committee Chair: Prof. G. Yu

Yu, Kevin Li
Coverage Planning for Unmanned Aerial Vehicles
Committee Chair: Prof. R. K. Williams and Prof. P. Tokekar

COMPUTER ENGINEERING

Arun, Balaji
Scalable Byzantine State Machine Replication: Designs, Techniques and Implementations
Committee Chair: Prof. B. Ravindran

Chen, Cong
High-Dimensional Generative Models for 3D Perception
Committee Chair: Prof. A. L. Abbott

Elouni, Maha
Traffic Flow and Speed Control on Large Scale Network with Geographical Self-Organizing Maps (Geo-SOM) Clustering Algorithm
Committee Chair: Prof. H. A. Rakha

COMPUTER SCIENCE AND APPLICATIONS

An, Kijin
The Client Insourcing Refactoring to Facilitate the Re-engineering of Web-Based Applications
Committee Chair: Prof. E. Tilevich
Chandrasekar, Prashant
Continuously Extensible Information Systems: Extending the 5S Framework by Integrating UX and Workflows
Committee Chair: Prof. E. A. Fox

Dahshan, Mai Mansour Soliman Ismail
Visual Analytics for High Dimensional Simulation Ensembles
Committee Chair: Prof. C. L. North and Prof. N. F. Polys

Dantas Cruz, Breno
Promoting Systematic Practices for Designing and Developing Edge Computing Applications via Middleware Abstractions and Performance Estimation
Committee Chair: Prof. E. Tilevich

Dasgupta, Archi
Rethinking Smart Home Design Framework Through Amalgamation of Architectural and Technological Aspects
Committee Chair: Prof. D. Gracanin

Fu, Kaiqun
Spatiotemporal Event Forecasting and Analysis with Urban Data
Committee Chair: Prof. C. Lu

Kotut, Lindah Jerop
Amplifying the Griot: Technology for Preserving, Retelling, and Supporting Underrepresented Stories
Committee Chair: Prof. D. S. McCrickard

Liu, Yin
Methodologies, Techniques, and Tools for Understanding and Managing Sensitive Program Information
Committee Chair: Prof. E. Tilevich

Lu, Yen-Cheng
Multi-type Outlier Detection Techniques and Applications
Committee Chair: Prof. C. Lu

Mehta, Sneha
New Methods for Event Detection and Extraction
Committee Chair: Prof. N. Ramakrishnan

Muthiah, Sathappan
Design and Maintenance of Event Forecasting Systems
Committee Chair: Prof. N. Ramakrishnan

Oh, Min
Deep Learning for Enhancing Precision Medicine
Committee Chair: Prof. L. Zhang

Tao, Rongrong
Anomalous Information Detection in Social Media
Committee Chair: Prof. N. Ramakrishnan

Yao, Sirui
Evaluating, Understanding, and Mitigating Unfairness in Recommender Systems
Committee Chair: Prof. N. Ramakrishnan and Prof. B. Huang

ELECTRICAL ENGINEERING

Bai, Kang Jun
Moving Toward Intelligence: A Hybrid Neural Computing Architecture for Machine Intelligence Applications
Committee Chair: Prof. Y. Yi

Barik, Tapas Kumar
Modern Adaptive Protection and Control Techniques for Enhancing Distribution Grid Resiliency
Committee Chair: Prof. V. A. Centeno

Chakraborty, Shibaji
Characterization and Modeling of Solar Flare Effects in the Ionosphere Observed by HF Instruments
Committee Chair: Prof. J. M. Ruohoniemi and Prof. J. B. Baker
Dayanikli, Gokcen Yilmaz
Intentional Electromagnetic Interference Attacks on Cyber-Physical Systems: Theory, Demonstration, and Defense
Committee Chair: Prof. R. M. Gerdes

Jiang, Shan
Multimaterial Multifunctional Fibers for Biomedical Applications
Committee Chair: Prof. X. Jia

Kozak, Joseph Peter
Hard Switched Robustness of Wide Bandgap Power Semiconductor Devices
Committee Chair: Prof. K. D. Ngo and Prof. Y. Zhang

Li, Virginia
Control and Modeling of High-Frequency Voltage Regulator for Microprocessor Application
Committee Chair: Prof. Q. Li

Liu, Jinshan
Secure and Reliable Deep Learning in Signal Processing
Committee Chair: Prof. J. Park

Ramdaspalli, Sneha Raj
An Expert-based Approach for Grid Peak Demand Curtailment Using HVAC Thermostat Setpoint Interventions in Commercial Buildings
Committee Chair: Prof. S. Rahman

Singh, Manish Kumar
Analysis, Optimization, and Learning for Energy Networks
Committee Chair: Prof. V. Kekatos

Song, Hao
Swarm Unmanned Aerial Vehicle Networks in Wireless Communications: Routing Protocol, Multicast, and Data Exchange
Committee Chair: Prof. L. Liu

Sun, Keyao
Protection, Control, and Auxiliary Power of Medium-Voltage High-Frequency SiC Devices
Committee Chair: Prof. D. Boroyevich and Prof. R. Burgos

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

White, Natalie Beitel
Dynamic Electrical Responses of Biological Cells and Tissue to Low- and High-Frequency Irreversible Electroporation Waveforms
Committee Chair: Prof. R. V. Davalos and Prof. X. Jia

Wu, Chiung Ting
Machine Learning Approaches for Modeling and Correction of Confounding Effects in Complex Biological Data
Committee Chair: Prof. Y. J. Wang

Xu, Yue
Insulation Design, Assessment and Monitoring Methods to Eliminate Partial Discharge in SiC-based Medium Voltage Converters
Committee Chair: Prof. D. Boroyevich

Yu, Oscar Nando
High Voltage Synchronous Rectifier Design Considerations
Committee Chair: Prof. J. S. Lai

Zhang, Qianqian
Machine Learning for Millimeter Wave Wireless Systems: Network Design and Optimization
Committee Chair: Prof. W. Saad
ENGINEERING EDUCATION
Boyd-Sinkler, Karis Elisabeth
Exploring the Interpersonal Relationships of Black Men in Undergraduate Engineering Programs
    Committee Chair: Prof. W. C. Lee, Jr.

Hall, Janice Leshay
Disaggregating the Monolith: A Case Study on Varied Engineering Career Orientations and Strategies of Black Women in Tech
    Committee Chair: Prof. W. C. Lee, Jr.

Perry, Logan Andrew
A Multi-Case Study on the Transfer of Engineering Learning Between Capstone and Work
    Committee Chair: Prof. J. S. London

ENGINEERING MECHANICS
Fu, Gen
Full Field Reconstruction Enhanced with Operational Modal Analysis and Compressive Sensing for General Dynamic Loading
    Committee Chair: Prof. A. Untaroiu

Huntington, Alyssa Joan
Vaginal Contractility: Mechanical and Structural Characterization
    Committee Chair: Prof. R. De Vita

Vaidya, Kedar Sanjay
Semi-analytical Model to Study Vibrations of High-speed, Rotating Axisymmetric Bodies Coupled to Other Rotating/stationary Structures
    Committee Chair: Prof. R. G. Parker

Yuan, Lisha
Optimum First Failure Loads of Sandwich Plates/Shells and Vibrations of Incompressible Material Plates
    Committee Chair: Prof. R. C. Batra

INDUSTRIAL AND SYSTEMS ENGINEERING
Anderson, Robert Blake
Routing and Control of Unmanned Aerial Vehicles for Performing Contact-Based Tasks
    Committee Chair: Prof. A. L’Afflitto

El Hajj, Hussein Mohammad
Robust and Equitable Public Health Screening Strategies, with Application to Genetic and Infectious Diseases
    Committee Chair: Prof. E. K. Bish and Prof. D. R. Bish

Khalili, Nastaran
Analysis of Information Diffusion Through Social Media
    Committee Chair: Prof. N. Ghaffarzadegan

Singh, Manjot
Sensor-based Characterization and Control of Additive Biomanufacturing Processes
    Committee Chair: Prof. B. Johnson

Tong, Yuxin
Multi-material Non-planar Additive Manufacturing for Conformal Electronics on Curvilinear Surfaces
    Committee Chair: Prof. B. Johnson

MATERIALS SCIENCE AND ENGINEERING
Baniasadi, Fazel
Structure and Electronic Properties Investigation of Two-Dimensional Material
    Committee Chair: Prof. K. Park and Prof. C. Tao

Dillinger, Benjamin Eugene
A Parametric Study on the Effects of External Stimuli on the Aqueous Dissolution of Lithium Disilicate Glass
    Committee Chair: Prof. D. E. Clark
Ding, Chao
Computer-Aided Formulation of Magnetic Pastes for Magnetic Components in Power Electronics
Committee Chair: Prof. G. Lu

Elmkharram, Hesham Moh A.
The Effect of Carbon Concentration on the Amorphization and Properties of Mechanically Alloyed Cobalt-Carbon Alloys
Committee Chair: Prof. A. O. Aning

Rauch, Hunter
Granular Shape Memory Ceramics
Committee Chair: Prof. H. Yu

MECHANICAL ENGINEERING

Bateni, Vahid
Isogeometric Approach to Optical Tomography
Committee Chair: Prof. R. L. West, Jr.

Cao, Ze
Investigation of Momentum and Heat Transfer in Flow Past Suspensions of Non-Spherical Particles
Committee Chair: Prof. D. K. Tafti

Dowd, Cody Stewart
The Effects of Porous Inert Media in a Self-Excited Thermoacoustic Instability: A Study of Heat Release and Reduced Order Modelling
Committee Chair: Prof. J. Meadows

He, Xukun
The Effect of Surface Topography on Droplet Evaporation and Condensation
Committee Chair: Prof. J. Cheng

Kessler, Ellis Carl
A Physically Informed Data-Driven Approach to Analyze Human Induced Vibration in Civil Structures
Committee Chair: Prof. P. A. Tarazaga

Leaman, Eric Joshua
Rational Engineering of Salmonella Typhimurium Expressing Collagenase for Optimized Intratumoral Transport and Colonization
Committee Chair: Prof. B. Behkam

Mousavi, Hoda
Experimental Characterization and Modeling of Tire-Ice Interface
Committee Chair: Prof. C. Sandu

Mukherjee, Apratim
3D Coiling at the Protrusion Tip: New Perspectives on How Cancer Cells Sense Their Fibrous Surroundings
Committee Chair: Prof. B. Behkam and Prof. A. Nain

Nazari, Ashkan
Multi-scale Finite Element Modeling of Rubber Friction Toward Prediction of Hydroplaning Potential
Committee Chair: Prof. S. Taheri

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

Stoddard, Ryan Manse
Experimental Investigations on Non-Wetting Surfaces
Committee Chair: Prof. R. Pitchumani

Yang, Ting
Mechanical Design of Selected Natural Ceramic Cellular Solids
Committee Chair: Prof. L. Li
**MINING ENGINEERING**

Bishop, Richard Edwin  
Development and Application of Autonomous UAV's for Remote Sensing in GPS-Denied Underground Mine Environments  
Committee Chair: Prof. N. S. Ripepi

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**NUCLEAR ENGINEERING**

Dsouza, Brendan Harry  
Material Degradation Studies in Molten Halide Salts  
Committee Chair: Prof. J. Zhang

Mascolino, Valerio  
Development and Benchmarking of FM Particle Transport Algorithms for Steady-state and Transient Conditions, Implementation in RAPID and Its VRS Web-application  
Committee Chair: Prof. A. Haghighat

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**COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES**

**COUNSELOR EDUCATION**

Jordan, Justin Richard  
Come as You Are: The Acceptability of Harm Reduction Approaches for Opioid Use Disorder Among Professional Counselors  
Committee Chair: Prof. L. E. Welfare and Prof. M. C. Fullen

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**CURRICULUM AND INSTRUCTION**

Alsobhi, Rania Masoud M.  
Factors to Consider for Implementing Blended Learning in Saudi Higher Education Institutions: An Integrative Literature Review  
Committee Chair: Prof. K. R. Potter

Avent, Yolanda Latrice  
A Sociohistorical Analysis of the Black Church as an Educational Institution: Understanding Parishioners Engagement and Motivation to Seek Higher Education  
Committee Chair: Prof. B. R. Brand and Prof. G. E. Glasson

Caruso, Caryn Marie  
The Effect of Active Learning on Academic Motivation Among Pre-Service Teachers  
Committee Chair: Prof. D. J. Kniola

Grimshaw, Wendy Sue  
Assessing the Career Awareness of Early Adolescent Learners  
Committee Chair: Prof. J. G. Wells

Holder, Morgan Brett  
Collaborative Efforts Between Agricultural and Special Education Teachers to Enhance Inclusion of Students with Disabilities into Agricultural Education  
Committee Chair: Prof. W. T. Price, Jr. and Prof. J. S. Mukuni

Huang, Jingjing  
An Exploratory Study of Effects of Lecture's Acoustic Features on L1 Chinese Listeners' Listening Comprehension of Online L2 English Lectures  
Committee Chair: Prof. K. R. Potter
Liu, Yuning
Being Foreign Language Teachers in the Modern World: What to Teach and How to Teach
Committee Chair: Prof. G. A. Tilley-Lubbs

Lupton, Gary Taylor
Self-Identified Professional Development Needs of Virginia Career and Technical Education Teachers
Committee Chair: Prof. W. T. Price, Jr. and Prof. J. S. Mukuni

Machac, Mary Kristin
A Model of Expert Instructional Design Heuristics Incorporating Design Thinking Methods
Committee Chair: Prof. K. R. Potter

Mosley, Valdez Lamont
Learner Perceptions and Cognitive Outcomes of Digital Game-Based Learning in Mathematics
Committee Chair: Prof. J. G. Wells

Papadopoulos, Joanna
Pupils' Attitudes Towards Technology - Grade 4 (PATT-G4): Establishing A Valid and Reliable Instrument
Committee Chair: Prof. J. G. Wells

Rasheed, Michelle Christian
Learning in Place: Teachers' Experiences with a Place-based Language Arts Curriculum in Rural Appalachia
Committee Chair: Prof. A. P. Azano

Sain, Jessica Irene
Elementary Design-Based Learning in Virtual and Hybrid Education Settings
Committee Chair: Prof. B. D. Bowen

Smart-Smith, Pamela Cristina
Trauma and the PhD
Committee Chair: Prof. G. A. Tilley-Lubbs

Walker, Matthew Daniel
Technology Gatekeeping: How High School Social Studies Teachers Navigate Technology in the Classroom
Committee Chair: Prof. D. Hicks

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

Alrehaili, Sara M.
Teacher Perception of Principals' Transformational Leadership and the Self-Efficacy of Teachers in Selected All-Female Schools in Saudi Arabia
Committee Chair: Prof. M. D. Alexander

Baskerville, Jeri Camille
Factors that Predict Black Student Participation in AP/IB Calculus by the Twelfth Grade
Committee Chair: Prof. C. S. Cash and Prof. W. J. Glenn

EDUCATIONAL RESEARCH AND EVALUATION

Du, Chenguang
How Well Can Two-Wave Models Recover the Three-Wave Second Order Latent Model Parameters?
Committee Chair: Prof. Y. Miyazaki
Hori, Kazuki  
Disaggregating Within-Person and Between-Person Effects in the Presence of Linear Time Trends in Time-Varying Predictors: Structural Equation Modeling Approach  
Committee Chair: Prof. Y. Miyazaki

HUMAN DEVELOPMENT

Smithee, Lauren Christine  
Emotional Intimacy in Transition: Interpersonal Processes in Transgender-Cisgender Romantic Relationships  
Committee Chair: Prof. A. L. Few-Demo

RHETORIC AND WRITING

Adams, Jonathan Mark  
It Goes Without Saying: Infrastructure as Rhetorical Theory for Navigating Transition in Writing Program Administration  
Committee Chair: Prof. J. M. Dubinsky

Brooks, Katie Beth  
Reading, Writing, Rhetoric: A Rhetorically Emplaced Study of Writing Education in an Appalachian Region  
Committee Chair: Prof. S. L. Carter-Tod

Scarff, Kelly L.  
Beyond Consensus: A Rhetorical Genre Analysis of the Mountain Valley Pipeline's 401 Public Hearings  
Committee Chair: Prof. K. E. Pender

SCIENCE AND TECHNOLOGY STUDIES

Tontodonato, Richard Edward  
Co-production of Science and Regulation: Radiation Health and the Linear No-Threshold Model  
Committee Chair: Prof. S. Schmid

SOCIAL, POLITICAL, ETHICAL, AND CULTURAL THOUGHT

Flahive, Robert Andrew  
Rethinking the Histories of Colonialism and Modernism Through Architectural Preservation  
Committee Chair: Prof. P. Dixit

Salmons, Patrick Jeremiah  
Hip Hop, Bluegrass, Banjos, and Solidarity: Race and Class Histories in Appalachia U.S.A  
Committee Chair: Prof. S. A. Johnson

Shepard, Kathryn Ann  
Artists for Humanity's Sake: An Ameliorative Project Concerning Artists and the Existentialist Struggle Against the Dominant Narrative  
Committee Chair: Prof. J. C. Pitt

Skiles, Debra Faith  
"I Would Never Set Foot on American Soil Again." Religion, Space and Gender: American Women Missionaries in Korea  
Committee Chair: Prof. H. M. Schneider and Prof. D. Agmon
SOCIOMETRY

Ireland, Leanna
The (Non)normative Administration of Justice by the Crowd: An Adaptation and Application of Hirschman's Exit, Voice and Loyalty Framework
Committee Chair: Prof. J. E. Hawdon

Islam, Imaash
Visible Muslims, Political Beings: The Racialized and Gendered Contours of a Digitally Mediated Muslim Womanhood
Committee Chair: Prof. D. L. Brunsma

McGlamery, Steven M.
Committee Chair: Prof. D. L. Brunsma

FORESTRY AND FOREST PRODUCTS

Ahlswede, Benjamin James
Evaluating the Influence of Establishing Pine Forests and Switchgrass Fields on Local and Global Climate
Committee Chair: Prof. R. Q. Thomas

Anderson, Kelley Christine
Investigating Aspects of Program Attendance, Diversity, Equity, and Inclusion, Adaptive Management, and Evaluation in Environmental Education
Committee Chair: Prof. M. J. Stern

Hahn, George Eugene
Wildland Fire in the Central Appalachian Mountains: Impacts on Above- and Belowground Resources
Committee Chair: Prof. T. A. Coates

COLLEGE OF NATURAL RESOURCES & ENVIRONMENT

FISHERIES AND WILDLIFE

Abernathy, Heather Nichole
Fire, Felids, and the Human Footprint: Deer and Puma Spatial Ecology and Predator-prey Interactions in Dynamic, Subtropical Wildlands
Committee Chair: Prof. M. J. Cherry

Black, Kathleen Miles
Red Fox Ecology and Interactions with Piping Plovers on Fire Island, New York
Committee Chair: Prof. J. D. Fraser and Prof. S. M. Karpanty
Houser, Cameron Kelly
The Effect of Forest Structure and Vegetation Characteristics on Evapotranspiration: Implications for Modeling and Management
  Committee Chair: Prof. R. H. Wynne and Prof. V. A. Thomas

Tang, Tuoxian
Phosphatidylinositol 3-phosphate Binding Properties and Autoinhibition Mechanism of Phafin2
  Committee Chair: Prof. D. G. Capelluto

Ward, Nicole Kristine
Modeling Lake Ecosystem Change Within Coupled Human-natural Systems to Improve Water Resources Management
  Committee Chair: Prof. C. C. Carey

Zou, Xianlin
Insights on Molecular Mechanisms How Circadian Clock Interplays with DNA Damage Response Pathway
  Committee Chair: Prof. C. V. Finkielstein

COLLEGE OF SCIENCE
BIOLOGICAL SCIENCES
Gajewski, Zachary John
Measuring and Modeling the Effects of Temperature on the Amphibian Chytrid Fungus and Assessing the Amphibian Microbiome
  Committee Chair: Prof. L. K. Belden and Prof. L. R. Johnson

Gonzalez, Floricel
Investigation of the Infection Mechanisms Employed by Flagella-dependent Agrobacterium Phage 7-7-1
  Committee Chair: Prof. B. Scharf

Heithoff, Benjamin Patrick
Uncovering Astrocyte Roles at the Blood Brain Barrier in the Healthy and Concussed Brain
  Committee Chair: Prof. M. A. Fox and Prof. S. Robel

Hernandez, Jessica
Assessing the Causes and Consequences of Variation in the Reproductive Microbiome of Tree Swallows (Tachycineta bicolor)
  Committee Chair: Prof. I. T. Moore

Osburn, Ernest Daniel
Effects of Land Management and Climate Change on Soil Microbial Communities in Appalachian Forest Ecosystems
  Committee Chair: Prof. J. E. Barrett

CHEMISTRY
Arrington, Clay Bradley
Tailoring Reactivity, Architecture and Properties of High Performance Polyimides: From Additive Manufacturing to Graft Copolymers
  Committee Chair: Prof. T. E. Long

Cagasova, Kristyna
1,3-disubstituted-tetrahydro-beta-carbolines: A New Method for Stereochemical Assignment and Synthesis of Potential Antimalarial Agents
  Committee Chair: Prof. P. R. Carlier

Garcia, Christopher James
Mitochondrial Uncouplers: Development as Therapeutics for Metabolic Diseases
  Committee Chair: Prof. W. Santos

Grams, Robert Justin
Boron-Mediated Semireduction of Alkynoic Acid Derivatives
  Committee Chair: Prof. W. Santos
Houck, Shannon Elizabeth
Efficient Fock Space Configuration Interaction Approaches For Large Strongly Correlated Systems
Committee Chair: Prof. N. Mayhall

Kautz, David Joseph
Investigation of Alkali Metal-Host and Electrode-Electrolyte Interfacial Chemistries for Lean Lithium and Sodium Metal Batteries
Committee Chair: Prof. F. Lin

Murray, Jacob Hadley
Complex Heterocycles as Mitochondrial Uncouplers
Committee Chair: Prof. W. Santos

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

Paradzinsky, Mark
Hydrogen Abstraction by the Nighttime Atmospheric Detergent NO3: Fundamental Principles
Committee Chair: Prof. J. M. Tanko

Rahman, Muhammad Mominur
Multiscale Chemistry and Design Principles of Stable Cathode Materials for Na-ion and Li-ion Batteries
Committee Chair: Prof. F. Lin

Shaikh, Shaunak Mehboob
Light Harvesting and Energy Transfer in Metal-Organic Frameworks
Committee Chair: Prof. A. Morris

Zhang, Rui
Nanoscale Liquid Dynamics in Membrane Matrices: Insights into Confinement, Molecular Interactions, and Hydration
Committee Chair: Prof. D. Troya and Prof. L. A. Madsen

ECONOMICS, SCIENCE

Chi, Mengyang
Essays on Financial Economics
Committee Chair: Prof. H. H. Haller

Do, Hoang-Phuong
A Retrospective View of the Phillips Curve and Its Empirical Validity Since the 1950s
Committee Chair: Prof. A. Spanos

Jin, Shan
Labor Migration in China
Committee Chair: Prof. S. Ge

Kim, Sunjin
Essays on Network Formation Games
Committee Chair: Prof. S. Sarangi and Prof. E. A. Bahel

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

Pilehvari, Asal
Essays in Health Economics
Committee Chair: Prof. W. You and Prof. X. Lin

Yang, Zichao
The Economics of Cryptocurrencies
Committee Chair: Prof. K. P. Tsang and Prof. A. C. Smith

GEOSCIENCES

Chilton, Kristin Danielle
Investigating the Effects of Lithology on Landscape Evolution Processes Across Scales
Committee Chair: Prof. J. A. Spotila

Jones, Joshua Robert
Investigating Volcano Tectonic Interactions in the Natron Rift of the East African Rift System
Committee Chair: Prof. D. S. Stamps
Liu, Shangxin
Dynamics of the North American Plate: Numerical Development, Mantle Flow Modeling, and Receiver Function Analysis
Committee Chair: Prof. S. D. King

Nagurney, Alexandra Bobiak
Microstructural Controls on the Crystallization and Exhumation of Metamorphic Rocks
Committee Chair: Prof. M. J. Caddick

MATHEMATICS

Cho, Taewon
Computational Advancements for Solving Large-scale Inverse Problems
Committee Chair: Prof. J. Chung

Chowdhury, Ahsan Habib
Instructors' Orientation on Mathematical Meaning
Committee Chair: Prof. E. Johnson

Kim, Daniel Min
Core Entropy of Finite Subdivision Rules
Committee Chair: Prof. W. J. Floyd

Koc, Birgul
Numerical Analysis for Data-Driven Reduced Order Model Closures
Committee Chair: Prof. T. Iliescu

Mou, Changhong
Data-Driven Variational Multiscale Reduced Order Modeling of Turbulent Flows
Committee Chair: Prof. T. Iliescu

Walker, Melody Anne
Discrete and Continuous Mathematical Investigation of Juvenile Mosquito Dynamics
Committee Chair: Prof. L. M. Childs

PHYSICS

Deng, Kuangyin
Exchange and Supercurrent Interactions in Quantum Dot Systems
Committee Chair: Prof. E. F. Barnes

Gu, Linjie
JLab E12-14-012 (e,e'p) Cross Section Measurements for Ar and Ti
Committee Chair: Prof. C. Mariani

Herath Mudiyanelage, Rathsara Rasanjalee Herath
Probing Coherent States and Nonlinear Properties in Multifunctional Material Systems
Committee Chair: Prof. G. Khodaparast

Mukhamadirov, Ruslan Ilyich
Controlling Non-equilibrium Dynamics in Lattice Gas Models
Committee Chair: Prof. U. C. Tauber

Nandi, Riya
Non-equilibrium Dynamics in Three-dimensional Magnetic Spin Models and Molecular Motor-inspired One-dimensional Exclusion Processes
Committee Chair: Prof. U. C. Tauber

Pestes, Rebekah Faith
Precision Neutrino Oscillations: Important Considerations for Experiments
Committee Chair: Prof. P. Huber

Zou, Hao
Low Dimensional Supersymmetric Gauge Theories and Mathematical Applications
Committee Chair: Prof. E. R. Sharpe
PSYCHOLOGY

Abraham, Elsheba K.
Examining Gender Bias in Leader Ratings Through Emotion Suppression, Leader Gender, and Participant Gender
Committee Chair: Prof. N. M. Hauenstein and Prof. R. J. Foti

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

Burns, Derek Allen
Latent Profile Transition Analysis of Job Characteristics and Individual Differences on Psychological and Physiological Outcomes
Committee Chair: Prof. R. J. Foti

Garcia Meza, Tatiana
Late Childhood Predictors of Adolescent Cognitive Reappraisal: Impacts on Adolescent Depressive Symptoms
Committee Chair: Prof. M. Bell

Herd, Toria Irene
Interrelations Between Adversity and Emotion Regulation: How Does Childhood Maltreatment Influence Risk for Reciprocal Relations Between Adolescent Peer Victimization and Emotion Regulation Development?
Committee Chair: Prof. J. Kim-Spoon

Mastrich, Zachary Hall
The Motivational Effects of Feedback: Development of a Machine Learning Model to Predict Student Motivation from Professor Feedback
Committee Chair: Prof. E. S. Geller

Muskett, Ashley Elizabeth
Feasibility of Anxiety Assessment for Children with Minimally-Verbal Autism
Committee Chair: Prof. A. Scarpa-Friedman

Radtke, Sarah Ryan
The Interaction Between Child Behavioral Inhibition and Parenting Behaviors Across Development: Effects on Adolescent Psychopathology
Committee Chair: Prof. T. H. Ollendick

Strege, Marlene Vernette
Sustained Recovery in Depression: Neural and Clinical Perspectives
Committee Chair: Prof. J. A. Richey

Sturdivant, Manasia Gabrielle
Development and Initial Validation of the African American Workplace Authenticity Scale
Committee Chair: Prof. N. M. Hauenstein

STATISTICS

Lu, Danni
Representation Learning Based Causal Inference in Observational Studies
Committee Chair: Prof. F. Guo

INTERDISCIPLINARY DEGREES

GENETICS, BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

He, Wei
Mathematical Modeling of Therapies for MCF7 Breast Cancer Cells
Committee Chair: Prof. W. T. Baumann
INDIVIDUAL
INTERDISCIPLINARY PHD

Svyantek, Martina V.
Institutional Counter-surveillance using a Critical Disability Studies Lens
Committee Chair: Prof. E. D. McNair

MACROMOLECULAR SCIENCE AND ENGINEERING

Chen, Tianran
Generation of Recyclable Liquid Crystalline Polymer Reinforced Composites for Use in Conventional and Additive Manufacturing Processes
Committee Chair: Prof. D. G. Baird

Kazerooni, Dana Abraham
Structure-Property Relationships in the Design of High Performance Membranes for Water Desalination, Specifically Reverse Osmosis, Using Sulfonated Poly(arylene ether Sulfone)s
Committee Chair: Prof. J. S. Riffle

White, Benjamin Tyler
Designing Multiphase Step-Growth Polymers for Advanced Technologies: From Electromechanical Transducers to Additive Manufacturing
Committee Chair: Prof. T. E. Long

TRANSLATIONAL BIOLOGY, MEDICINE AND HEALTH

Alcoreza, Oscar B.
Modulating System xc- Activity As A Treatment For Epilepsy
Committee Chair: Prof. H. W. Sontheimer

Bouslog, Allison Faye
The Gut-brain Axis in Seizure Susceptibility: A Role for Microbial Metabolite S-equol
Committee Chair: Prof. S. Campbell

Cui, Zhuoya
Understanding Social Function in Psychiatric Illnesses Through Computational Modeling and Multiplayer Games
Committee Chair: Prof. B. King-Casas and Prof. P. H. Chiu

Hendricks, Alissa Danielle
Determining the Oncological and Immunological Effects of Histotripsy for Tumor Ablation
Committee Chair: Prof. I. C. Allen and Prof. E. Vlaisavljevich

Kocher, Matthew Afshin
Non-coding RNA Genes Lost in Prader-Willi Syndrome Stabilize Target RNAs
Committee Chair: Prof. D. J. Good

Martin, Joelle Dominique
Modulation of System xc- Mediated Glutamate Release in Glioblastoma Multiforme via the Extracellular Matrix: The Agony and the xCTasy
Committee Chair: Prof. H. W. Sontheimer

Menon, Nidhi
Engineered Microsystems and Their Application in the Culture and Characterization of Three-dimensional (3D) Breast Tumor Models
Committee Chair: Prof. C. N. Jones

Mills, William Albert
The Effects of Aging on EGFR/pSTAT3-Dependent Gliovascular Structural Plasticity
Committee Chair: Prof. H. W. Sontheimer
Sabbagh, Ubadah
The Development, Cytoarchitecture, and Circuitry of the Ventral Lateral Geniculate Nucleus
Committee Chair: Prof. M. A. Fox

Swartwout, Brianna Kendall
Identification and Evaluation of Limosilactobacillus reuteri as an Inducer of Neonatal IgA and Autoimmunity
Committee Chair: Prof. X. Luo

Wang, Suwei
Opportunities and Challenges in Identification and Classification of Heat Stress Risk Based on Analysis of Individual and Neighborhood Level Factors
Committee Chair: Prof. J. M. Gohlke

Batts, Kenya Simmons
Principal and Teacher Perceptions on Practices That Impact Teacher Job Satisfaction and Retention in Title I Elementary Schools in a Large Suburban Central Virginia School Division
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Booth, Monique Latoya
Elementary Assistant Principals' Self-Perceived Preparedness to Lead Diverse Schools Through the Lens of the Culturally Responsive School Leadership Framework
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Burbic, Jessica Elizabeth
Assistant Principals' Self-Reported Levels of Preparedness to Support Special Education Teachers and Programming
Committee Chair: Prof. C. S. Cash

Clements, Alecia Dawn
Transformative-based Alternative Education Program: A Study of Teacher and Leadership Perceptions
Committee Chair: Prof. C. S. Cash and Prof. J. L. Brinkmann

Davis-Vaught, Pamela L.
Teacher Resilience in High Poverty Schools of Southwest Virginia
Committee Chair: Prof. M. D. Alexander

Fohl, George Christopher
The Influence of Universal Screening Measures on the Diversity of Students Found Eligible for Gifted Education Program Services
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Gardner, Daniel Joseph
Educational Leaders' Perceptions of the Impact of MBTI Professional Development On Their Leadership Practices
Committee Chair: Prof. C. S. Cash
Jacobsen, Carey Mae  
Globalization, Global Citizenship, and Catholic Education  
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Lopes, Brittany Amanda  
The Status of Student Academic Performance Based on the Demographic Representation of Public Middle School Teachers and Students in the Commonwealth of Virginia  
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Parsley, Kadie Lynn  
A Study of Effective Instructional Practices for Teaching Boys in All-Boys Independent Schools in Virginia  
Committee Chair: Prof. C. S. Cash

Porzio, Lindsay Crump  
Perceptions of the Role of the Principal in the Development, Implementation, and Continuation of a Series Reading Program  
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Ransome, Jaraun Montel  
Discipline Disproportionality in an Urban School Division Within the Commonwealth of Virginia  
Committee Chair: Prof. C. S. Cash

Rucker, Jennifer Smith  
Principal Perceptions and the Impact of Leadership Development Attributed to the Virginia Tech School Leaders Institute Recently Appointed Administrator Program  
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Russ, Brenda Jasmine  
Principals' and Assistant Principals' Self-Reported Levels of Preparedness to Assist Instructional Staff Working with English Learners in Two School Districts in Virginia  
Committee Chair: Prof. C. S. Cash

Scott, David Dennis  
Analysis of Fiscal Equity in Virginia: 2004 - 2020  
Committee Chair: Prof. M. D. Alexander

Settles, Karen Rena  
An Exploration on How Elementary Administrators Support a Growth Mindset in Classroom Teachers  
Committee Chair: Prof. C. S. Cash

Strittmatter, Matthew James  
A Sample of Selected Secondary School Leader Perceptions of Necessary Skills Before, During, and After the Coronavirus Pandemic  
Committee Chair: Prof. C. S. Cash

Trigueiro, Amy Theresa  
School Building Conditions and Student Achievement and Chronic Absenteeism in Urban High Schools in the Commonwealth of Virginia  
Committee Chair: Prof. C. S. Cash

Tyler, Millicent Denise  
Educational Leadership Practices and Their Impact on Alternative Student Success  
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

Van der Linden, Courtney Adele  
An Historical Analysis of Fiscal Equity in the Commonwealth of Virginia: 2004-2018  
Committee Chair: Prof. C. S. Cash

Webb, Elizabeth Rose  
Improving Academic Achievement for Students in Poverty: A Case Study Analysis of a Rural Elementary School  
Committee Chair: Prof. M. D. Alexander
Williams, Monica Lynn
A Qualitative Investigation of Principals' Experiences With and Interventions Provided to Gifted Students Who Have Dropped Out Or Are At Risk of Dropping Out
Committee Chair: Prof. C. S. Cash and Prof. T. S. Price

EDUCATION SPECIALIST
COLLEGE OF LIBERAL ARTS & HUMAN SCIENCES
CURRICULUM AND INSTRUCTION
Manning, Kirsten Ann
Newton, Matthew Terry
Wills, Kary Shelor

EDUCATIONAL LEADERSHIP AND POLICY STUDIES
Jagodzinski, Jack Dillon
Londeree, Kathleen Williams
Sedutto, Marantha Dawkins
Shears-Walker, Barbara Jean
MASTERS DEGREES

COLLEGE OF AGRICULTURE AND LIFE SCIENCES

MASTER OF SCIENCE AGRICULTURAL AND APPLIED ECONOMICS

Garber, Benjamin Fredrick
Hassman, Colburn Hastings
Vannoy, Mallory Drew

AGRICULTURAL AND LIFE SCIENCES

Alford, Peyton Thomas
Banick, Lauren Pontiff
Baron, Geoffrey Thomas
Bowman, Mackenzie Brook
Cole, Taja Alexis
Estep, Taylor Matney
Fagan, Samantha Brennan
Granche, Michael Christopher
Humphries, Ashlee
Kendall, Jermaine Keith
Locus, Alaina Billie Noel
LouvetSr., Matthew F.
Mueller, Kale Eugene
Niblett, Richard Tyler
Rosa, Austin C.
Schertz, Olivia Nicole
Schulman, Robert Marc
Smith, Tyrell Allen
Thompson, Crissy Loraine
Turner, Brandon Michael
Wright, Carly Michelle Griffith

ANIMAL AND POULTRY SCIENCES

Arneson, Alicia Gest
Halter, Bailey Anne
Oxendine, Aaron Casey

CROP AND SOIL ENVIRONMENTAL SCIENCES

Bowers, Lindsey Carolle
Hinkle, Caleb Daniel
Lancaster, Caroline Marie
Poskaitis, Megan Kathleen

HUMAN NUTRITION, FOODS AND EXERCISE

Barker, Katelyn Ann
Wallace, Michael Anthony
Wunderlich, Kayla Marie
MASTER OF SCIENCE IN LIFE SCIENCES
AGRICULTURAL AND EXTENSION EDUCATION
Cowell-Lucero, Jamie Lynn

BIOCHEMISTRY
Corrigan, Aleksandra Nikol
DeHart, Tanner Gage
Fryzlewicz, Lauren Hope
King, Kelsie Marie
Ratnasinghe, Brian Damith
VanderGiessen, Morgen

ENTOMOLOGY
Dechaine, Andrew Chase
James, Aryanna Lee
McIntyre, Kelly Christine
Silliman, Mary Rachel
Vasquez Valverde, Luisa Fernanda
Whitlow, Amanda Marie

FOOD SCIENCE AND TECHNOLOGY
Littleson, Brenna Nicole
Sandbrook, Ann Marie

PLANT PATHOLOGY, PHYSIOLOGY AND WEED SCIENCE
Daly, Emeline Hope
Henderson, Caleb Aleksandr
Nahiyan, Md Abdullah Al

MASTER OF SCIENCE IN NUTRITION AND DIETETICS
Jarvis, Jordyn Marie
Kettle, Kiley Grace
Massey, Mary Elizabeth
Parks, Tabitha Kai
Smith, Katherine Grace

COLLEGE OF ARCHITECTURE AND URBAN STUDIES
MASTER OF ARCHITECTURE
Alnajidi, Najd Hamad S.
Ansar Shorijeh, Farimah
Ashworth, Emily Claire
Berkeley, Joshua David
Bocchino, Christian Joseph
Broadwell, Emily Catherine
Carricaburu, Paul Gaston
Dunlap, Margaret
Fazel Anvaryazdi, Shaghayegh
Gent, Bailey Lynn
Germansky, Hannah Constance
Ghodousi, Shayan
Gupta, Riya
Hack, Keith Martin
Hoxha, Sara
Koushkebaghi, Mona
Kretzing, Lucas James
Layden, Kaitlyn Rose
Li, Jie
Massie, Blake Andrew
Melhem, Sari
Miller, Christopher Lee
Olson, Jeffrey Mark
Perez, Eliezer Omar
Pessotti, Philippe Campos
Prentice, David Neil
Pyne, Sarah Morris
Rapavi, Paulina E.
Siddique, MD Abu Baker
Smith, Carter Leigh
Surty, Abdul Dayyan Abduls Wahab
Synadinos, Dimos

Ge, Tianyu
Shah, Jasmine Rajesh

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Burch, Jennifer Marrie
Coates, Ashley Nicole
Gilbert, Grace Madelyn
Rahimi Bafrani, Raena
Ramirez-Blust, Lynda Sue

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PUBLIC ADMINISTRATION/
PUBLIC AFFAIRS
Abell, Aldyn Frances
Adams Jr., Anthony Antonio
Anderson, John Hunter
Buscaglia, Caroline Olivia
English, David Joseph
Harding, Brandon Allen
Hasham, Muhammad Zaheer Uddin
Marshall, Ericka Mahvash
Overholt, Meleah Brooke
Reynal, Matthew George
Richards, Edward Prince
Showalter, Amy Laurel
Tankersley, Cole Patrick

MASTER OF FINE ARTS
CREATIVE TECHNOLOGIES
Ampatzi, Vasiliki Traikos
Flood, Caleb Russell
Taylor, Dakota L.
Vierick, Robert Scott

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Haan, Nicholas Daniel
Johnson, Allison Noelle
Moore, Donald Devon
Walters, Amanda Cathrine
Zhou, Yue

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Akinci Yalt, Sevgi Tugce

**BUILDING/CONSTRUCTION SCIENCE AND MANAGEMENT**
Jefferson, William Hunter
Ji, Chengyue
Paluszek, Elizabeth Anne
Peck, Mitchell Thomas

**MASTER OF URBAN AND REGIONAL PLANNING**
Brown, Melody Ambria
Byrne, Cayley Erin
Caudullo, Victoria
Donovan, Richard Francis

Gilmer, Lydia Rachel
Goldring, Ariel Louis
Hale, Kendra Auburn
Hanton, Katherine Thomas
Huaman, David Sean
Lawson, Thomas Blake
Nagorniuk, Anna Alexandra
Parks, Austin Lee
Rauof Hassanzadeh, Behnaz
Redd, Ceara Marie
Sale, Abigail Grace
Serio, Natalie Ann
Shahbeigi, Azin
Tombarge, Alisande Marie

**PAMPLIN COLLEGE OF BUSINESS**

**MASTER OF ACCOUNTING AND INFORMATION SYSTEMS**
Ashey Jr., William Clayton
Bergeron, Colum Michael
Davis, Brandon Uriah
Estock, Thomas Michael
Fredrick, Robert William
Freeman, Mia Tiana
Furcachtenicht, Samuel August
Harrison, Natalie Megan
Haselby, Sean William
Kitchen, Ryan McDermott
Lake, Jane Margaret
Laushell, Kyra Ann
Lee, KyungJoon
Lilley, Leah M.
Mallaney, Thomas Carl
Ngo, Hanh Thi Thu
Nguyen, Kenny
Perkins Jr., Mark Baldwin
Pierson, Madison Carey
Pineda Padilla, Mara Rosa Emilia
Ramirez, Matthew John
Soto, Isabel Victoria
Thompson, Sean Andrew
Uzelac, Ivana
Vahlkamp, Marissa Ann
Zhang, Xiaochun

Jubran, Nidaal
Khan, Mir Akram Ali
Khaskia, Manar
Kopp, Matthew Lawrence
Lamb, Phillip Gerard
Letters, Rachel Marie
Mages, Stephanie
Mathur, Rohit Vishnu
McKenna, Patricia Susane
Michaely, Nicholas James
Ramey, Lily Eileen
Ray, Erin McKenna
Schrager, Alaina Kelly
Segler, Jacklin Kris
Shah, Sayed Bahadur
Shukla, Charu
Slee, Evan Ross
Stephanos, Henok Habtemariam
Surface, Josiah Jason
Sutphin, Charles Patrick
Szymanski, Franz Gerald
Taylor, Mark Andrew
Wendland, Jonathan George
Wood, Randolph Lee
Yeshigeta, Abyi
Zacha, Ryan Edward

MASTER OF BUSINESS ADMINISTRATION

Brennan, Kate Elizabeth
Choudry, Noor Ahmed
Connolly, Timothy Edward
Demarino, Hilda Elizabeth
Demirovic, Edin
Diaz Rodriguez, Jhonnattan
Gaines, Christopher David
Gallagher, Jeanmarie
MASTER OF SCIENCE
BUSINESS ADMINISTRATION
Bin Samman, Taha Mohammed I
Kwarteng, Maxine
Li, Ji

COLLEGE OF
ENGINEERING
MASTER OF ENGINEERING
BIOLOGICAL SYSTEMS ENGINEERING
Huffman, Sidney Ann

COMPUTER ENGINEERING
Aayush Sureshchander
Crofford, Cody Lyn
Hsieh, Hsin Han
Huang, Lanxiao
Huang, Yi
Isiadinso, Angel Tehillah
Johari, Shagun
Le, Thanh Duc
Mahajan, Yogesh Vijaykumar
Mandke, Prathamesh Kalyan
Mehta, Ujjval Samir
Nizam, Sumaiyyah
Patil, Akash Dnyaneshwar
Rege, Varun Rajesh
Ronvelwala, Sajan
Roy, Padmaksha
Sachdev, Karan Deepak
Sachin
Sethi, Japnit Singh
Sharma, Pooja
Thakalapally, Shashank
Thakur, Tanvi
Venkatesan, Saranya
Wadkar, Sunny Vishvanath

COMPUTER SCIENCE AND APPLICATIONS
Chen, Xiaoyu
Cheruvu, Asha R.
Dixit, Gaurav
Durah, Fadi I.
Dworak, Rebecca Marie
Gillard, Jordan Alexander
Sharma, Niket
Srinivasan, Raghu
Taleb Zadeh Kasgari, Ali
Wang, Haitao
Yan, Runge

ELECTRICAL ENGINEERING
Kondeppady, Avinash
Nandu, Jaineel
Parker, Andrew Thomas
Qian, Yizhou
Sreeram, Nirmala
Sun, Heyan
Xiao, Jun

INDUSTRIAL AND SYSTEMS ENGINEERING
Chowdhury, Tahsin Mahmud
Dhanapal, Vignesh
Dungrani, Rahil Gordhan
Huntington, Maia J.
Juneja, Ikjot Singh
Kunte, Pranav Shridhar
LoPinto, Dominic Edward
Panchal, Parth Bipin
Shojaee, Seyedeh Parshin
Taimoory, Hamidreza
Tibrewala, Vedant
Venugopal, Varun
William, Jeswin
Wu, Zhiyue
Yan, Ying

MATERIALS SCIENCE AND ENGINEERING
Aden, David Aaron

Clark, Charlotte Catharine
Flint, Kaitlyn M.
Petersen, Dylan Thomas

MECHANICAL ENGINEERING
Kuehne, Susana Elizabeth
Zhang, Yuexiang

MASTER OF ENGINEERING ADMINISTRATION
Abebe, Mussie Solomon

MASTER OF SCIENCE AEROSPACE ENGINEERING
Aselford, Robert Carl
Brannick, Kevin Patrick
Craig, Jesse Tyler
Criss, Matthew Allan
Du, Minzhen
Edmonds, Kendy Elizabeth
Furgiuele, Theresa C.
Heberle, Truman James
Kadan, Jonathan Evan
Laing, Jacob Michal
Morris, Brenton Alexander
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Stockwell, Zachary Guy
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Verniel, Jacob Miles
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Nimmer, George Elias
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