

DEGREE CANDIDATES

COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

Dean Robin W. Morgan

Doctor of Philosophy

Jennifer K. Gilbert *Plant and Soil Sciences*

B.S., SUNY College–Buffalo
M.S., University of Connecticut

Dissertation: Characterizing Dissolved Phosphorus Transport
Through Vegetated Filter Strips

Professor in charge of dissertation: James T. Sims, Ph.D.

Jie Han *Plant and Soil Sciences*

B.E.N.E., Tsinghua University, China
M.C.E., Tsinghua University, China

Dissertation: Transport and Retention of Viruses and
Microspheres in Saturated and Unsaturated Porous Media

Professor in charge of dissertation: Yan Jin, Ph.D.

Christopher Maurice Heckscher *Entomology & Wildlife Ecology*

B.S., Colorado State University
M.S., University of Delaware

Dissertation: Use of the Veery (*Catharus Fuscescens*) Call
Repertoire in Vocal Communication

Professor in charge of dissertation: Roland R. Roth, Ph.D.

Volha I. Lazouskaya *Plant and Soil Sciences*

B.S., International Sakharov Environmental University
Dipl., International Sakharov Environmental University

Dissertation: Pore-Scale Investigation on Mechanisms of Colloid
Retention in Unsaturated Porous Media

Professor in charge of dissertation: Yan Jin, Ph.D.

Jason Adam Mills *Animal Science*

B.S., University of Delaware
M.S., University of Nebraska–Lincoln

Dissertation: Cytokine and Growth Factor Networks Associated with
Epidermal-Mesenchymal Cell Interactions During Keratinocyte-
Stem Cell Growth in the Bovine Claw

Professor in charge of dissertation: Robert M. Dyer, V.M.D., Ph.D.

Linda-Lou O'Connor *Entomology & Wildlife Ecology*

B.S., University of Delaware
M.S., University of Delaware

Dissertation: Effects of Hybridization, Feeding
Behavior and Parity Rates of the Common House
Mosquito (*Culex Pipiens* L.) on Late Season
West Nile Virus Activity

Professor in charge of dissertation: John B. Gingrich, Ph.D.

Kristian William Paul *Plant and Soil Sciences*

B.S., Montana State University–Bozeman

Dissertation: Molecular Modeling Study of Sulfate and
Phosphate Adsorption at the Mineral-Water Interface

Professor in charge of dissertation: Donald L. Sparks, Ph.D.

Luisa Ines Santamaria *Plant and Soil Sciences*

B.S., Pontificia Universidad Católica del Ecuador–Quito
M.S., University of Delaware

Dissertation: Evaluation of Lima Bean (*Phaseolus lunatus*)
Germplasm for Resistance to Downy Mildew,
Epidemiological and Biological Studies of its Causal
Agent, *Phytophthora phaseoli*

Professor in charge of dissertation: Thomas A. Evans, Ph.D.

Renato Jose Schmidt *Animal Science*

B.S., Federal University of Vicosa, Brazil
M.S., University of Sao Paulo, Brazil

Dissertation: Development of a Real-Time
Quantitative Polymerase Chain Reaction
Method to Quantify *Lactobacillus Buchneri* in
Order to Study Its Growth and Effects in
Silages When Added Alone or in Combination
With *Pediococcus Pentosaceus*

Professor in charge of dissertation: Limin Kung, Jr., Ph.D.

Andrew Zachary Skibo *Plant and Soil Sciences*

B.S., University of Delaware

Dissertation: The Evaluation of Selected ‘Post’-Applied
Herbicides for Control of Japanese Knotweed
(*Polygonum Cuspidatum* Syn. *Fallopia Japonica* Syn.
Reynoutria Japonica) and a Survey and Characterization
of this Invasive Species in Delaware

Professor in charge of dissertation: Mark A. Isaacs, Ph.D.

COLLEGE OF ARTS AND SCIENCES

Dean Thomas M. Apple

Doctor of Physical Therapy

This degree is a professional degree and does not require the writing of a dissertation.

Elizabeth Diane Bauske B.S.H.S., University of Illinois, Urbana–Champaign	Samantha Joy Lefkowitz B.S., Ohio State University
Jennifer Lee Binkley B.A., University of Delaware	Karrie Lowry B.S., University of Delaware
Janelle Kristen Cannon B.A., University of Delaware	Valerie Jean Martineau B.S., College of William and Mary
Jessalyn Ann Ciampa B.S., State University of New York–Geneseo	Faith Virginia Morton B.S., Grove City College
Kathryn Gray Curtis B.S., Evangel University	Krystal Lynn Perrone B.A., Arcadia University
Catalina Dee Suriben David B.A., University of California–Irvine	Melissa Jean Ronan B.S., Boston University
Tyesha Monique Dwight B.A., University of Delaware	Lisa Rochelle Saltzman B.A., University of Virginia
Kyle T. Fennemore B.A., University of Delaware B.S., University of Delaware	Jennifer Ann Schmidt B.S., University of Delaware
Lakisha Freeman Fulton B.S., Pennsylvania State University	Matthew Gerard Scott B.A., University of Delaware
Lauren Elizabeth Grieder B.A., University of Delaware	Julienne Rose Sinkosky B.S., University of Delaware
Thomas Andrew Handling B.A., University of Delaware B.S., University of Delaware	Tiffany Sue Strawn B.S., Texas Christian University
Krista Ann Horne B.S., University of Delaware	Kelsey Lee Vagnoni B.S., University of Delaware
Christine Lynn Keighley B.S., University of Delaware	Rachel L. Whitlock B.S., University of Delaware
	Jennifer Marie Zambito B.S., University of Delaware
	Teresa L. Zoltak B.S., University of Delaware

Doctor of Philosophy

Bindiya Arora B.Sc., Panjab University, India M.Sc., Panjab University, India <i>Dissertation:</i> Modeling of Atomic Systems for Quantum Information and Atomic Clocks <i>Professor in charge of dissertation:</i> Marianna Safronova, Ph.D.	<i>Physics</i>
Shalini Balakrishnan B.Sc., University of Madras, India M.SC., University of Madras, India <i>Dissertation:</i> Development of Novel Switchable Motifs and New Strategies to Build Functionally Privileged Structures <i>Professor in charge of dissertation:</i> Neil J. Zondlo, Ph.D.	<i>Chemistry & Biochemistry</i>
Jon Regan Beckham B.S., University of Central Arkansas M.S., University of Delaware M.A., University of Central Arkansas <i>Dissertation:</i> Analysis of Mathematical Models of Electrostatically Deformed Elastic Bodies <i>Professor in charge of dissertation:</i> John A. Pelesko, Ph.D.	<i>Applied Mathematics</i>
Benjamin Alan Breech B.A., Shippensburg University of Pennsylvania B.S., Shippensburg University of Pennsylvania M.S., University of Delaware <i>Dissertation:</i> Improving Software Maintenance and Security Testing Through Dynamic Compilers <i>Professor in charge of dissertation:</i> Lori L. Pollock, Ph.D.	<i>Computer Science</i>
Benjamin Alan Breech B.A., Shippensburg University of Pennsylvania B.S., Shippensburg University of Pennsylvania M.S., University of Delaware <i>Dissertation:</i> Topics in Solar Wind Turbulence <i>Professor in charge of dissertation:</i> William H. Matthaeus, Ph.D.	<i>Physics</i>
Anissa Joy Brown B.A., University of Delaware <i>Dissertation:</i> Function of Heparan Sulfate Proteoglycans (HSPGs) and Heparanase (HPSE) in Endochondral Bone Formation <i>Professor in charge of dissertation:</i> Mary Farach-Carson, Ph.D.	<i>Biological Sciences</i>

Lisa Ann Butterick *Chemistry & Biochemistry*

B.S., Rowan University
Dissertation: Design of Self-Assembling β -Hairpin Peptide-Based Hydrogels for Tissue Engineering Applications
Professor in charge of dissertation: Joel P. Schneider, Ph.D.

Amy Irene Cass *Sociology*

B.S., Florida State University
M.A., University of Delaware
Dissertation: Individual Perceptions of Stalking: An Examination of the Influence of Gender and the Victim/Offender Relationship
Professor in charge of dissertation: Ronet Bachman, Ph.D.

Gokce Cehreli *Physics*

B.S., Bogazici University, Turkey
Dissertation: Low Frequency Fluctuations and Shot Noise in Magnetic Tunnel Junctions
Professor in charge of dissertation: Edmund Nowak, Ph.D.

Abdullah Ceylan *Physics*

B.S., Hacettepe University, Turkey
Dissertation: Core/Shell Structured Magnetic Nanoparticles Synthesized by Inert Gas Condensation
Professor in charge of dissertation: S. Ismat Shah, Ph.D.

Xiaoren Chen *Biological Sciences*

B.Md., Chongqing University of Medical Science, China
M.Md., Chongqing University of Medical Science, China
Dissertation: Biochemistry of Prox1 Function
Professor in charge of dissertation: Melinda K. Duncan, Ph.D.

Sandra Cheng *Art History*

B.A., University of Pittsburgh
M.A., University of Delaware
Dissertation: Il Bello Dal Deforme: Caricature and Comic Drawings in Seventeenth-Century Italy
Professor in charge of dissertation: David M. Stone, Ph.D.

Vesselina G. Cooke *Biological Sciences*

B.S., Southwest Missouri State University
Dissertation: Role of Junctional Adhesion Molecule-A in Vascular Biology
Professor in charge of dissertation: Ulhas Naik, Ph.D.

Tim V. Decker *English*

B.A., Towson University
M.A., University of Delaware
Dissertation: Strategic Standards: Authorial Self-Presentation in Restoration Literature
Professor in charge of dissertation: Lois Potter, Ph.D.

David J. DeGraff *Biological Sciences*

B.S., Metropolitan State College-Denver
Dissertation: Implications for the Androgenic Regulation of IGFBP-2 in the Development of Metastatic and Androgen Independent Prostate Cancer
Professor in charge of dissertation: Robert Sikes, Ph.D.

Jodi Anne Devine *English*

B.S., Skidmore College
M.A., DePaul University
Dissertation: Epistolary Revelations: Reading Letters in Nineteenth-Century British Novels
Professor in charge of dissertation: Carl Dawson, Ph.D.

Anthony DiChiara *Physics*

B.S., Kutztown University of Pennsylvania
Dissertation: Ionization Measurements of Argon, Krypton and Xenon Atoms with Petawatt to Exawatt cm^{-2} Laser Fields
Professor in charge of dissertation: Barry Walker, Ph.D.

Stacy Ann Direso *Psychology*

B.A., Holy Family University
M.A., University of Delaware
Dissertation: Commitment Processes in Interracial and Intra-racial Romantic Relationships: An Extension of the Investment Model
Professor in charge of dissertation: Samuel Gaertner, Ph.D.

Zhenzhen Dong *Chemistry & Biochemistry*

B.S., Shanghai Jiaotong University, China
Dissertation: Synthesis of Two-Dimensional Scaffolds and Metallofoldamers
Professor in charge of dissertation: Joseph M. Fox, Ph.D.

William Richard Donner *Sociology*

B.A., Millersville University of Pennsylvania
M.A., University of Delaware
Dissertation: An Integrated Model of Risk Perception and Protective Action: Public Response to Tornado Warnings
Professor in charge of dissertation: Havidán Rodríguez, Ph.D.

William Gaul Dougherty *Chemistry & Biochemistry*
B.S., Ursinus College

Dissertation: Synthesis, Structure and Reactivity of
Nickel-Nickel Complexes for Understanding the A Cluster
in Acetyl Coenzyme A Synthase

Professor in charge of dissertation: Charles G. Riordan, Ph.D.

Matthew Aaron Dreyfus *Chemistry & Biochemistry*
B.A., College of Wooster

Dissertation Title: Laboratory and Field Measurements of Organic
Aerosols with the Photoionization Aerosol Mass Spectrometer

Professor in charge of dissertation: Murray V. Johnston, Ph.D.

Sonia S. D'Souza *Chemistry & Biochemistry*
B.S., University of Mumbai, India

M.S., University of Mumbai, India

Dissertation: Heparanase: Expression and Function
During Embryo Implantation and Modulation of
Heparanase Activity by HIP/RPL29

Professor in charge of dissertation: Daniel D. Carson, Ph.D.

Paul J. Eder *Psychology*
B.A., Loyola College

M.A., University of Delaware

Dissertation: Integrating the Componential and
Interactionist Models of Employee Creativity

Professor in charge of dissertation: John E. Sawyer, Ph.D.

Julia U. Engström *Biological Sciences*
B.S., University of Delaware

Dissertation: Mammalian Cell Cycle Regulates
Oligonucleotide-Mediated Repair

Professor in charge of dissertation: Eric B. Kmiec, Ph.D.

Darlene Farabee *English*
B.A., Temple University

M.A., University of Delaware

Dissertation: Print Travels: Movement and Metaphor in the Early
Modern Era

Professor in charge of dissertation: Lois Potter, Ph.D.

Isaac Ghebregziabher *Physics*
B.S., Asmara University, Ethiopia

Dissertation: Radiation and Photoelectron Dynamics in Ultrastrong
Laser Fields

Professor in charge of dissertation: Barry Walker, Ph.D.

Joy Marie Ginter *Chemistry & Biochemistry*
B.A., Franklin and Marshall College

Dissertation: Protein Identification and Characterization
By Mass Spectrometry

Professor in charge of dissertation: Murray V. Johnston, Ph.D.

Genevieve Sophie Griffiths *Biological Sciences*
B.A., University of Delaware

Dissertation: Investigating the Impact and Mechanism
of Vesicular and Non-Vesicular Mediated GPI-Linked
Protein Transfer From Reproductive Luminal Fluids
to Sperm, Using SPAM1 as a Model

Professor in charge of dissertation: Patricia A. Martin-DeLeon, Ph.D.

Mohamed Hassanein *Biological Sciences*
B.S., Ain Shams University, Egypt

M.S., Delaware State University

Dissertation: Biochemical and Functional Characterization
of a Novel Placental Protease, Cathepsin P,
in Rat Trophoblasts

Professors in charge of dissertation: Robert W. Mason, Ph.D.
Robert A. Sikes, Ph.D.

Stefanie Rose Herron *English*
B.A., University of Mary Washington

M.A., Virginia Commonwealth University

Dissertation: Willa Cather's Argument with Modernism:
Unearthing Faith Amid the Ruins of War

Professor in charge of dissertation: Susan Goodman, Ph.D.

Alfa Romy Herdyanto Heryudono *Applied Mathematics*
B.Sc., Universitas Indonesia

M.Sc., Southern Illinois University-Edwards

Dissertation: Adaptive Radial Basis Function Methods
for the Numerical Solution of Partial Differential
Equations, with Application to the Simulation of the
Human Tear Film

Professor in charge of dissertation: Tobin A. Driscoll, Ph.D.

Jessica P. Hodge *Criminology*
B.A., University of Minnesota-Minneapolis

M.S., Western Oregon University

Dissertation: Proving Grounds: The Gender Quandary
of Hate Crime Law

Professor in charge of dissertation: Susan L. Miller, Ph.D.

- Joshua A. Idjadi *Biological Sciences*
 B.S., Tufts University
 M.S., California State University–Northridge
 M.S., Tulane University of Louisiana
Dissertation: Aggregation Promotes Species
 Coexistence Among Reef-Building Corals
Professor in charge of dissertation: Ron Karlson, Ph.D.
- Michael James Jochen *Computer Science*
 B.A., University of Delaware
 M.S., University of Delaware
Dissertation: Mobile Code Integrity Through Static
 Program Analysis, Steganography, and Dynamic
 Transformation Control
Professor in charge of dissertation: Lori L. Pollock, Ph.D.
- Fernando A. Jové *Chemistry & Biochemistry*
 B.A., University of Rochester
 M.S., Villanova University
Dissertation: Dioxxygen Activation by Low Valent Hydrotris
 (Pyrazolyl) Borate Iron Complexes
Professor in charge of dissertation: Klaus Theopold, Ph.D.
- Matthew Thomas Kieber-Emmons *Chemistry & Biochemistry*
 B.S., Saint Joseph’s University
Dissertation: Oxygen and Sulfur Activation at Monovalent Nickel
Professor in charge of dissertation: Charles G. Riordan, Ph.D.
- Thommen Korah *Computer Science*
 B.Tech., Cochin University of Science & Technology, India
 M.S., University of Delaware
Dissertation: Robust Spatiotemporal Analysis of Architectural Imagery
Professor in charge of dissertation: Christopher Rasmussen, Ph.D.
- Kevin Allen Kreisel *Chemistry & Biochemistry*
 B.S., Pennsylvania State University
Dissertation: Organochromium Chemistry with
 Formally Neutral, Chelating Ancillary Ligands
Professor in charge of dissertation: Klaus Theopold, Ph.D.
- Marika J. Lamoreaux *Psychology*
 B.S., Virginia Polytechnic Institute and State University
 M.A., Miami University–Oxford, Ohio
Dissertation: Reducing Intergroup Bias: When Contact
 is Instrumental for Achieving Group Goals
Professor in charge of dissertation: Samuel L. Gaertner, Ph.D.
- Chin-Aik Lee *Physics*
 B.S., Lebanon Valley College
Dissertation: Selected Topics in Unified Field Theories
Professor in charge of dissertation: Qaisar Shafi, Ph.D.
- Margaret Elizabeth Leigy *Criminology*
 B.A., Indiana University of Pennsylvania
 M.A., University of Delaware
Dissertation: Life While Serving Life: Examining the Correctional
 Experiences of Older Inmates Serving a LWOP Sentence
Professor in charge of dissertation: Ronet Bachman, Ph.D.
- Elizabeth A. Mansley *Sociology*
 B.A., Saint Joseph’s University
 M.A., University of Delaware
Dissertation: “Man Up”: Exploring the Relationship Between
 Race, Social Class, Intimate Partner Violence and the
 Construction of Masculinity
Professor in charge of dissertation: Susan Miller, Ph.D.
- Rachel L. Mayrer-Minnie *English*
 B.S., Towson University
 M.A., University of Delaware
 M.S., Towson University
Dissertation: Behind the Ripper’s Mask: Representing Jack
 the Ripper in the Twentieth and Twenty-First Centuries
Professor in charge of dissertation: Thomas Leitch, Ph.D.
- Meghan Davis McAuliffe *Psychology*
 B.S., University of Mary Washington
 M.A., University of Delaware
Dissertation: The Impact of Teacher Behavior on
 Children’s Peer Relations
Professor in charge of dissertation: Julie A. Hubbard, Ph.D.
- Emily C. McCusker *Chemistry & Biochemistry*
 B.S., Bradley University
Dissertation: Overcoming Expression Obstacles in Producing
 Functional Components of the G-Protein Coupled Receptor Pathway
Professor in charge of dissertation: Eugene G. Mueller, Ph.D.
- Paula Lynn McGinley *Chemistry & Biochemistry*
 B.S., Elizabethtown College
Dissertation: Molecular Complementation of Mutant
 Hormone Receptors
Professor in charge of dissertation: John Koh, Ph.D.

Christopher Michael Micklitsch *Chemistry & Biochemistry*

B.S., Lycoming College
Dissertation: Designing Functional Materials
Using the Hydrophobic Face of a Self-Assembling
Amphiphilic β -Hairpin Peptide

Professor in charge of dissertation: Joel P. Schneider, Ph.D.

Michael Thomas Mock *Chemistry & Biochemistry*

B.S., Villanova University
M.S., Villanova University
Dissertation: Synthesis and Reactivity of Thioether-Supported
Organoiron and Low-Valent Iron Complexes and
Cyanide Bridged Binuclear Complexes

Professor in charge of dissertation: Charles G. Riordan, Ph.D.

Takahiro Moriyama *Physics*

B.E., Tohoku University, Japan
M.E., Tohoku University, Japan
Dissertation: Nonlocal and Local Magnetization
Dynamics Excited by a RF Magnetic Field in
Magnetic Multilayers

Professor in charge of dissertation: John Q. Xiao, Ph.D.

Derek Evan Moulton *Applied Mathematics*

B.A., University of Denver
M.S., University of Delaware
Dissertation: Mathematical Modeling of Field Driven
Mean Curvature Surfaces

Professor in charge of dissertation: John A. Pelesko, Ph.D.

Maitreya Natu *Computer Science*

B.E., Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, India
M.S., University of Delaware

Dissertation: Application of Adaptive Probing for
Fault Diagnosis in Computer Networks

Professor in charge of dissertation: Adarshpal S. Sethi, Ph.D.

Manh Hung Nguyen *Political Science & International Relations*

B.A., Institute for International Relations, Vietnam
M.A., Institute for International Relations, Vietnam
Dissertation: Explaining Asymmetric Political
Participation in the Reform Era of Vietnam

Professor in charge of dissertation: Alice D. Ba, Ph.D.

Ann M. O'Brien *Chemistry & Biochemistry*

B.S., Sacred Heart University
Dissertation: Environmental Proteomics and
Mass Spectrometry: Characterization of Viable
Microorganisms in Ambient Air

Professor in charge of dissertation: Murray V. Johnston, Ph.D.

Adebanjo Akinwummi Oriade *Physics*

B.Sc., University of Jos, Nigeria
M.Sc., University Of Ibadan, Nigeria
Dissertation: Monte Carlo Study of Fluctuations
and Magnetization Reversal in Nickel-Iron
Ferromagnetic Ultra-Thin Films

Professor in charge of dissertation: Siu-Tat Chui, Ph.D.

Arif Ozbay *Physics*

B.S., Middle East Technical University, Turkey
Dissertation: Electrical Transport and Noise in
Metal and Organic Spin-Valve Structures
Professor in charge of dissertation: Edmund Nowak, Ph.D.

Ozge Isik Ozturk *Linguistics*

B.A., Bogazici University, Turkey
M.A., University of Delaware
Dissertation: Acquisition of Evidentiality
and Source Monitoring
Professor in charge of dissertation: Anna Paparagou, Ph.D.

Jalynn Olsen Padilla *History*

B.A., Weber State University
M.A., University of Utah
Dissertation: An Army of "Cripples": Northern
Civil War Amputees, Disability, and Manhood
in Victorian America
Professor in charge of dissertation: Anne Boylan, Ph.D.

Jerome H. Pagani *Psychology*

B.A., University of Rochester
M.A., University of Delaware
Dissertation: The Medial Hypothalamic
Defensive Circuit and Predator Odor
Induced Fear: A Comparison of Electrolytic
and Neurotoxic Lesions
Professor in charge of dissertation: Jeffery B. Rosen, Ph.D.

Sasikumar Palaniyappan
B.S., Bharathidasan University, India
M.S., Indian Institute of Technology, Madras, India
Dissertation: Relativistic Rescattering and Multielectron Ionization of Atoms and Molecules in Ultra-Strong Laser Fields
Professor in charge of dissertation: Barry Walker, Ph.D.

Physics

Mahesh Kumar Pallerla
B.S., Sri Sathya Sai Institute of Higher Learning, India
M.S., Sri Sathya Sai Institute of Higher Learning, India
Dissertation: Strain as a Design Principle — Stereoselective Pauson-Khand Reactions of Cyclopropanes
Professor in charge of dissertation: Joseph M. Fox, Ph.D.

Chemistry & Biochemistry

Sara Lynn Parker
B.A., University of California–Davis
M.A., University of Delaware
Dissertation: Seeking Truth: The Development of an International Truth Commission Norm
Professors in charge of dissertation: Julio Carrion, Ph.D.
Matthew J. Hoffmann, Ph.D.

Political Science & International Relations

Luis Abel Ralat Tousef
B.S., Millersville University of Pennsylvania
Dissertation: Insights Into the Multiple Functions of Glutathione S-Transferase P1-I: Characterization of Its Several Ligand Sites and Examination of Its Interactions with l-Cysteine Peroxiredoxin
Professor in charge of dissertation: Roberta F. Colman, Ph.D.

Chemistry & Biochemistry

Jason Edward Reiss
B.A., Wittenberg University
M.A., University of Delaware
Dissertation: Object Substitution Masking: What Is the Neural Fate of the Unreportable Target?
Professor in charge of dissertation: James E. Hoffman, Ph.D.

Psychology

Basmah Riaz
B.S., University of Karachi, Pakistan
M.S., University of Karachi, Pakistan
Dissertation: A Study of Circumstellar Disk Properties in Low-Mass Stars and Brown Dwarfs
Professor in charge of dissertation: John Gizis, Ph.D.

Physics

Meghan Ashlin Rich
B.A., University of Maryland–College Park
M.A., University of Wisconsin–Milwaukee
Dissertation: Diversity Block by Block: Homeowners' Perceptions of Race, Class, and Neighborhood Change in an Integrated Urban Neighborhood
Professor in charge of dissertation: Margaret L. Andersen, Ph.D.

Sociology

Therese M. Rizzo
B.A., Rowan University
M.A., University of Delaware
Dissertation: The Sentimental Trickster in Nineteenth-Century American (Con) Texts
Professor in charge of dissertation: Jean Pfaelzer, Ph.D.

English

Robert Joseph Ronkese
B.S., Union College New York
M.S., University of Delaware
M.S., Northwestern University
Dissertation: The Analysis and Numerical Simulation of a Mathematical Model of Bone Remodeling
Professor in charge of dissertation: Robert P. Gilbert, Ph.D.

Applied Mathematics

Natalie Leor Rosenthal
B.S., Muhlenberg College
M.A., University of Delaware
Dissertation: Assessing Adolescent Attachment Hierarchies: Individual Differences and Developmental Change
Professor in charge of dissertation: R. Rogers Kobak, Ph.D.

Psychology

Ronnie M. Rubin
B.A., Wesleyan University
M.A., University of Delaware
Dissertation: Children's Beliefs About Peer Relations: Links to Peer Rejection, Depression, Aggression, and the Beliefs of Parents and Teachers
Professor in charge of dissertation: Julie A. Hubbard, Ph.D.

Psychology

Abdul K. Rumaiz
B.S., University of Madras, India
M.S., Indian Institute of Technology, Madras, India
Dissertation: Cobalt Doped TiO₂, A Possible Candidate for Dilute Magnetic Semiconductors
Professor in charge of dissertation: S. Ismat Shah, Ph.D.

Physics

Anne E. Samuel *Art History*
B.A., University of Richmond
M.A., University North Carolina–Chapel Hill
Dissertation: Vision Conceptualized in the American
Renaissance Murals of Edwin Howland Blashfield
Professor in charge of dissertation: Michael Leja, Ph.D.

Timothy Robert Schwartz *Biological Sciences*
B.S., Gettysburg College
Dissertation: Therapeutic Single-Stranded
Oligonucleotides in Gene Repair and Cancer
Professor in charge of dissertation: Eric B. Kmiec, Ph.D.

David Carroll Shepherd *Computer Science*
B.S., Virginia Commonwealth University
M.S., University of Delaware
Dissertation: Natural Language Program Analysis:
Combining Natural Language Processing with
Program Analysis to Improve Software Maintenance
Professor in charge of dissertation: Lori Pollock, Ph.D.

Anne Marie Shough *Chemistry & Biochemistry*
B.A., College of Wooster
Dissertation: Quantum Chemistry Studies of Catalytic and
Photocatalytic Materials: Transition Metal Substitution,
Active Sites, Thermodynamics and Reaction Mechanisms
Professor in charge of dissertation: Douglas J. Doren, Ph.D.

Samrat Sinha *Political Science & International Relations*
B.A., University of Delhi, India
M.A., Jawaharlal Nehru University, India
M.A., University of Delaware
Dissertation: Regulatory Oversight over Electoral Processes:
A Case Study of the Election Commission of India
Professor in charge of dissertation: Julio Carrion, Ph.D.

Sharmila Sivendran *Chemistry & Biochemistry*
B.S., Millersville University of Pennsylvania
M.S., Long Island University–Brooklyn Campus
Dissertation: *Bacillus Subtilis* and Human Adenylosuccinate Lyase:
I. Studies of Two Novel Point Mutations of ASL Deficiency
II. Effect of Adjacent Amino Acids on the pK of HIS⁶⁸
III. Studies with a New Substrate Analogue
Professor in charge of dissertation: Roberta F. Colman, Ph.D.

Sara Elizabeth Sprenkle *Computer Science*
B.S., Gettysburg College
M.S., Duke University
Dissertation: Strategies for Automatically Exposing
Faults in Web Applications
Professor in charge of dissertation: Lori Pollock, Ph.D.

Melissa Manni Sumner *Psychology*
B.S., Pennsylvania State University
M.A., University of Delaware
Dissertation: Full-Day Patterns of Cortisol
Production Among Toddlers in Child Care
Professor in charge of dissertation: Mary Dozier, Ph.D.

Corey Michael Taylor *English*
B.A., Ursinus College
M.A., University of Delaware
Dissertation: Ambiguous Sounds: African American
Music in Modernist American Literature
Professor in charge of dissertation: Susan Goodman, Ph.D.

Weiwei Tian *Chemistry & Biochemistry*
B.S., Nanjing University, China
M.S., Nanjing University, China
Dissertation: Rhodium Mediated Carbene Insertion
and Applications in Natural Product Synthesis
Professor in charge of dissertation: Douglass F. Taber, Ph.D.

Katherine Leonard Turner *History*
B.A., Reed College
M.A., University of Delaware
Dissertation: Good Food For Little Money: Food
and Cooking Among Urban Working-Class
Americans, 1875–1930
Professor in charge of dissertation: Susan Strasser, Ph.D.

Paula Vasquez *Mathematics*
Engr., Universidad Nacional de Colombia
M.B.A., Goldey-Beacom College
Dissertation: Modeling Wormlike Micellar Solutions
Professor in charge of dissertation: L. Pamela Cook-Ioannidis, Ph.D.

Ni Yan *Chemistry & Biochemistry*
B.S., Peking University, China
Dissertation: Stereoselective Carbometallation Reactions of Cyclopropenes
Professor in charge of dissertation: Joseph M. Fox, Ph.D.

Liviu P. Zarbo *Physics*
B.S., University of Cluj, Napoca, Romania
Dissertation: Mesoscopic Spin Hall Effect in
Semiconductor Nanostructures
Professor in charge of dissertation: Branislav K. Nikolic, Ph.D.

Ningyi Zhang *Applied Mathematics*
B.S., Qingdao University, China
M.S., University of Delaware
Dissertation: Inverse Problem For Wave Propagation in a
Perturbed Layered Half-Space and Orthogonality
Relations in Poroelastic Materials
Professor in charge of dissertation: Robert Gilbert, Ph.D.

Xinyi Zhang *Mathematics*
B.E., Northern Jiaotong University, China
M.S., University of Delaware
Dissertation: Expected Lengths of Minimum Spanning Trees
Professor in charge of dissertation: Wenbo Li, Ph.D.

Feng Zhou *Chemistry & Biochemistry*
B.S., Fudan University, China
Dissertation: Protein Characterization by Capillary
Isoelectric Focusing Electrophoresis, Reversed Phase Liquid
Chromatography and Mass Spectrometry
Professor in charge of dissertation: Murray V. Johnston, Ph.D.

Hao Zhu *Physics*
B.S., Nanjing University, China
M.S., Nanjing University, China
Dissertation: Material Design and Synthesis
for Desirable Magnetic and Optic Properties
Professor in charge of dissertation: John Q. Xiao, Ph.D.

ALFRED LERNER COLLEGE OF BUSINESS AND ECONOMICS

Dean Conrado M. Gempesaw II

Doctor of Philosophy

Olawole Nasser Yayl *Economics*
M.A., University of Delaware
Mait., University of Lyons II, France
Dissertation: A Random Utility Model of Trout Fishing in Delaware
Professor in charge of dissertation: George R. Parsons, Ph.D.

Hong Yin *Economics*
B.E., Dong Hua University, China
M.S., Clemson University
Dissertation: Innovative Activity and Technological Change in
China and Its Regions: Evidence from Chinese Domestic Patents
Professor in charge of dissertation: William R. Latham III, Ph.D.

COLLEGE OF ENGINEERING

Dean Michael J. Chajes

Doctor of Philosophy

Olufikayo Oluwaseun Aderinlewo *Civil Engineering*
B.Sc., University of Ibadan, Nigeria
M.C.E., University of Delaware
M.Eng., Federal University of Technology, Akure, Nigeria
Dissertation: Assessment of a Transportation Infrastructure
System and Its Component Interactions
Professor in charge of dissertation: Nii O. Attoh-Okine, Ph.D.

Se Chang Ahn *Civil Engineering*
B.S., Yonsei University, Korea
Dissertation: Removal of Perchlorate in Ammunition Wastewater by
Zero-Valent Iron and Perchlorate Respiring Bacteria
Professor in charge of dissertation: Daniel K. Cha, Ph.D.

Albert Yawson Ayenu-Prah *Civil Engineering*
B.Sc., Kwame Nkrumah University of Science & Technology, Ghana
M.S., Texas Tech University
Dissertation: Empirical Mode Decomposition and
Civil Infrastructure Systems
Professor in charge of dissertation: Nii O. Attoh-Okine, Ph.D.

Sai Kumar Banala *Mechanical Engineering*
B.Tech., Indian Institute of Technology, Guwahati, India
Dissertation: Lower Extremity Exoskeletons for Gait
Rehabilitation of Motor-Impaired Patients
Professor in charge of dissertation: Sunil K. Agrawal, Ph.D.

Steven Edward Bane *Chemical Engineering*
B.S.E., University of Pittsburgh
Dissertation: Expression and Characterization of the
Human Neurokinin 1 Receptor From *E. coli*
Professor in charge of dissertation: Anne Skaja Robinson, Ph.D.

Laetitia Mary Bonnaillie *Chemical Engineering*
Ing., Ecole Nationale Supérieure d'Ingénieurs de Génie Chimique, France
M.Ch.E., University of Delaware
Dissertation: Bio-Based Polymeric Foam From
Soybean Oil and Carbon Dioxide
Professor in charge of dissertation: Richard P. Wool, Ph.D.

Scott Edward Buzby *Materials Science & Engineering*
B.S., University of Delaware
Dissertation: The Effect of Doping Titanium Dioxide
Nanoparticles on Phase Transformation, Photocatalytic
Activity and Anti-Bacterial Properties
Professor in charge of dissertation: S. Ismat Shah, Ph.D.

Abhijit Chatterjee *Chemical Engineering*
B.Tech., Indian Institute of Technology, Delhi, India
M.Tech., Indian Institute of Technology, Delhi, India
Dissertation: Nanoscale Modeling and Control
of Self-Assembled Nanoparticle Arrays
Using a Hierarchy of Multiscale Models
Professor in charge of dissertation: Dionisios G. Vlachos, Ph.D.

Yu-Chia Cheng *Chemical Engineering*
B.S., National Taiwan University, Taiwan
M.S., National Taiwan University, Taiwan
Dissertation: Effects of Salts on the Phase
Behavior of Proteins and Protein Mixtures
Professor in charge of dissertation: Abraham M. Lenhoff, Ph.D.

Korhan Demirkan *Materials Science & Engineering*
B.S., Ege Chongqing, Turkey
M.Ch.E., Izmir Technological Institute, Turkey
Dissertation: Interfaces of Electrical Contacts in
Organic Semiconductor Devices
Professor in charge of dissertation: Robert L. Opila, Ph.D.

Yukun Dong *Civil Engineering*
B.S.C.E., North China University of Technology, China
M.U.P.P., University Illinois–Chicago
Dissertation: Assessing Investment Analysis
Strategies for Infrastructure Renewal in Regional
Transportation Planning
Professor in charge of dissertation: Sue McNeil, Ph.D.

Andre C. Dumetz *Chemical Engineering*
M.Ch.E., University of Delaware
Dissertation: Protein Interactions and Phase
Behavior in Aqueous Solutions: Effects
of Salt, Polymer, and Organic Additives
Professor in charge of dissertation: Abraham M. Lenhoff, Ph.D.

Ayca Erdem *Civil Engineering*
Engr., Suleyman Demirel University, Turkey
M.Sc., Akdeniz University, Turkey
Dissertation: Short-Term Toxicity of Photocatalytic
Titanium Dioxide to Bacteria Under
Ambient Conditions
Professor in charge of dissertation: Chin Pao Huang, Ph.D.

Steven Romel Givens *Materials Science & Engineering*
B.A., University of Virginia's College at Wise
Dissertation: The Effect of Solvent Properties
on Electrospun Polymer Fibers and Applications
in Biomaterials
Professor in charge of dissertation: John F. Rabolt, Ph.D.

Kelly Devon Hales *Materials Science & Engineering*
B.S., Virginia Polytechnic Institute and State University
Dissertation: Design and Characterization of
Self-Assembled Nanostructures of Block
Copolymers in Solution
Professor in charge of dissertation: Darrin J. Pochan, Ph.D.

Biqin Huang *Electrical & Computer Engineering*
B.S., Zhejiang University, China
M.S., University of Delaware
M.S., Zhejiang University, China
Dissertation: Vertical Transport Silicon Spintronic Devices
Professor in charge of dissertation: Ian Appelbaum, Ph.D.

Wei Huang *Chemical Engineering*
B.S., Tsinghua University, China
M.Ch.E., University of Delaware
Dissertation: Selective Hydrogenation of Acetylene
on Zeolite-Supported Bimetallic Catalysts
Professor in charge of dissertation: Jingguang G. Chen, Ph.D.

Onur Yusuf Kas *Materials Science & Engineering*

B.S., Middle East Technical University
M.S., Middle East Technical University
Dissertation: Design, Synthesis and Characterization
of Bio/Electroactive Hybrids: Confining
Chromophores in Dilute Solutions Using a
Helical Peptide Template

Professor in charge of dissertation: Mary E. Galvin, Ph.D.

Gary L. Katulka *Electrical Engineering*

B.S.E.E., Wilkes University
M.E.E., University of Delaware
Dissertation: Fabrication and Characterization of
Structures and Rectifiers Based on Silicon Carbide
Alloyed with Germanium

Professor in charge of dissertation: James Kolodzey, Ph.D.

Joshua Ian Kramer *Electrical & Computer Engineering*

B.Cp.E., University of Delaware
Dissertation: A Dynamic Power Optimization Methodology
for Gigabit Electrical Links

Professor in charge of dissertation: Fouad Kiamilev, Ph.D.

Matthew Steven Lamm *Materials Science & Engineering*

B.S., Virginia Polytechnic Institute and State University
Dissertation: Molecular Self-Assembly: Design,
Synthesis and Characterization of Peptidic
Materials for Bio- and Nano-Technologies

Professor in charge of dissertation: Darrin J. Pochan, Ph.D.

Angel Andres Leal Ayala *Materials Science & Engineering*

B.S., Instituto Tecnológico de Monterrey, Mexico
M.S., Philadelphia University
Dissertation: Effect of Intermolecular Hydrogen Bonding
on the Micro-Mechanical Properties of High
Performance Organic Fibers

Professor in charge of dissertation: John W. Gillespie, Jr., Ph.D.

Myung Han Lee *Chemical Engineering*

B.S., Hanyang University, Korea
M.S., Hanyang University, Korea
Dissertation: Microstructure and Microrheology
of Colloidal Gels

Professor in charge of dissertation: Eric M. Furst, Ph.D.

Jian Li *Electrical Engineering*

B.E., Tsinghua University, China
M.E., Tsinghua University, China
M.E.E., University of Delaware
Dissertation: Theory and Application Methods of Time Domain
Reflectometry/Time Domain Transmission Computed
Tomography (TDR/TDT CT)

Professor in charge of dissertation: Robert G. Hunsperger, Ph.D.

Liqing Li *Civil Engineering*

B.E., Tsinghua University, China
M.S., Tsinghua University, China
Dissertation: Water Saturation and Air/Water Interfacial Area
Measurements by Partitioning Gas Tracers in the Vadose Zone
and Landfills.

Professor in charge of dissertation: Paul T. Imhoff, Ph.D.

Hong-Ying Lin *Civil Engineering*

B.E., Tamkang University, Taiwan
M.C.E., University of Delaware
Dissertation: Improving the Optoelectric and Photoactivity of
Nanostructured TiO₂: Effect of Nitrogen Doping, Oxygen
Vacancy, and Particle Size

Professors in charge of dissertation: Chin Pao Huang, Ph.D.
S. Ismat Shah, Ph.D.

Shaoxin Lu *Electrical & Computer Engineering*

B.E., Jilin University, China
M.E., Jilin University, China
Dissertation: Photomechanical Actuation of Carbon Nanotubes
and Their Applications in Micro-Opto-Mechanical Systems

Professor in charge of dissertation: Balaji Panchapakesan, Ph.D.

Rovshan Mahmudov *Civil Engineering*

C.Sc., Azerbaijan State University, Azerbaijan
Engr., Azerbaijan State University, Azerbaijan
Dissertation: Removal and Destruction of Perchlorate
by Activated Carbon-Based Processes

Professor in charge of dissertation: Chin Pao Huang, Ph.D.

Anoop Mathew *Materials Science & Engineering*

B.Tech., Indian Institute of Technology, Madras, India
M.M.S.E., University of Delaware
Dissertation: Interfacial Phenomena in High- κ Dielectrics

Professor in charge of dissertation: Robert L. Opila, Ph.D.

David Michael Metzler *Civil Engineering*
B.S., Roger Williams University
M.A.S., University of Delaware
Dissertation: Responses of *Pseudokirchneriella Subcapitata*
and Algal Assembly to Photocatalytic Titanium
Dioxide Nanoparticles
Professor in charge of dissertation: Chin Pao Huang, Ph.D.

Kapil Mukati *Chemical Engineering*
B.Tech., Indian Institute of Technology, Madras, India
Dissertation: An Alternative Structure for Next
Generation Regulatory Controllers and Scale-Up
of CU(INGA) SE₂ Thin Film Co-Evaporative
Physical Vapor Deposition Process
Professor in charge of dissertation: Robert W. Birkmire, Ph.D.

Luis Eduardo Murillo *Materials Science & Engineering*
B.S., University of Valle del Cauca, Colombia
M.S., University of Puerto Rico, Mayaguez
Dissertation: Controlling Hydrogenation Activity
and Selectivity of Bimetallic Surfaces and Catalysts
Professor in charge of dissertation: Jingguang G. Chen, Ph.D.

Armin Walter Opitz *Chemical Engineering*
B.E., University of Pittsburgh
Dissertation: Structural and Functional Investigations
of a Molecular Imaging Nanoparticle for Magnetic
Resonance Imaging of Oncogene Expression
in the Pancreas
Professor in charge of dissertation: Norman J. Wagner, Ph.D.

Yinan Qi *Civil Engineering*
B.E., Harbin Institute of Technology, China
M.Phil., Hong Kong University of Science & Technology, China
Dissertation: Effect of Centrifugal Dewatering on the Regrowth of Fecal
Coliforms and Salmonella in Anaerobically Digested Biosolids
Professor in charge of dissertation: Steven K. Dentel, Ph.D.

Danielle Nicole Rockwood *Materials Science & Engineering*
B.S., James Madison University
Dissertation: Characterization of Electrospun
Polymer Fibers for Applications in
Cardiac Tissue Engineering and
Regenerative Medicine
Professor in charge of dissertation: John F. Rabolt, Ph.D.

Christopher Arnim Schuetz *Electrical & Computer Engineering*
B.S.E.E., Virginia Polytechnic Institute and State University
M.E.E., University of Delaware
Dissertation: Optical Techniques for Millimeter-Wave
Detection and Imaging
Professor in charge of dissertation: Dennis Prather, Ph.D.

Prateek Pinakin Shah *Chemical Engineering*
B.S., Carnegie Mellon University
Dissertation: Thermodynamics of Apolar Solvation
in Mixed Aqueous Solvents
Professor in charge of dissertation: Christopher J. Roberts, Ph.D.

Dan Su *Mechanical Engineering*
B.S., Shanghai Jiaotong University, China
M.S., Shanghai Jiaotong University, China
Dissertation: Microcrack Damage and Its Effect
on Stress Wave Propagation
Professor in charge of dissertation: Michael H. Santare, Ph.D.

Wenzhong Tang *Mechanical Engineering*
B.E., Beijing University of Chemical Technology, China
M.E., Beijing University of Chemical Technology, China
M.S.M.E., University of Delaware
Dissertation: Molecular Dynamics Simulations of
Carbon Nanotubes in Liquid Flow
Professor in charge of dissertation: Suresh G. Advani, Ph.D.

Rohit Vijay *Chemical Engineering*
B.Tech., Indian Institute of Technology, Madras, India
M.Tech., Indian Institute of Technology, Madras, India
Dissertation: Discovery and Mechanistic Investigation
of NO_x Traps and NH₃ Decomposition Catalysts
Using High-Throughput Experimentation
Professor in charge of dissertation: Jochen A. Lauterbach, Ph.D.

Demin Wang *Civil Engineering*
B.En.Sc., East China University Science & Technology, China
D.Eng., East China University Science & Technology, China
M.Env.Sc., East China University Science & Technology, China
Dissertation: Reduction of Perchlorate by Indirect
Electrochemical and Catalytic Hydrogen Processes
in Dilute Aqueous Solutions
Professor in charge of dissertation: C. P. Huang, Ph.D.

Erich C. Weigert *Materials Science & Engineering*
B.Ch.E., University of Delaware
Dissertation: An Ex Situ and In Situ Evaluation of Carbides as Potential Electrocatalysts
Professor in charge of dissertation: Jingguang G. Chen, Ph.D.

Raymond Augustus Wildman *Electrical & Computer Engineering*
B.E.E., University of Delaware
M.E.E., University of Delaware
Dissertation: Geometry Optimization and Computational Electromagnetics: Methods and Applications
Professor in charge of dissertation: Daniel S. Weile, Ph.D.

Michael John Wilson *Electrical & Computer Engineering*
B.E.E., University of Delaware
M.S., University of Delaware
Dissertation: Projectile Navigation and the Application to Magnetometers
Professor in charge of dissertation: Gonzalo R. Arce, Ph.D.

Xuankuo Xu *Chemical Engineering*
B.E., Tianjin University, China
M.E., Tianjin University, China
Dissertation: Protein Adsorption Isotherms and Their Effects on Transport in Cation-Exchange Chromatography
Professor in charge of dissertation: Abraham M. Lenhoff, Ph.D.

Guangchi Xuan *Electrical Engineering*
B.S., Tsinghua University, China
M.E.E., University of Delaware
Dissertation: The Fabrication and Characterization of High Temperature Terahertz Emitters, and DNA Sensitive Transistors Based on Silicon-Germanium and Silicon Carbide Materials
Professor in charge of dissertation: Gonzalo R. Arce, Ph.D.

Jin Yan *Mechanical Engineering*
B.E., Beijing University of Aeronautics & Astronautics, China
M.E., Beijing University of Aeronautics & Astronautics, China
Dissertation: Aspects of Instrumented Indentation with Applications to Thermal Barrier Coatings
Professor in charge of dissertation: Anette M. Karlsson, Ph.D.

Peng Yao *Electrical Engineering*
B.E., Xian Jiaotong University, China
M.S., Xian Jiaotong University, China
Dissertation: Developing Three-Dimensional Lithography and Chemical Lithography for Applications on Micro/Nano Photonics and Electronics
Professor in charge of dissertation: Dennis W. Prather, Ph.D.

Le Zhang *Materials Science & Engineering*
B.E., Tsinghua University, China
M.S., Tsinghua University, China
Dissertation: Bioinspired Matrices Assembled by Polysaccharide-Protein Interactions
Professor in charge of dissertation: Kristi L. Kiick, Ph.D.

Le Zhang *Mechanical Engineering*
B.E., Liaoning Institute of Technology, China
M.E., Liaoning Institute of Technology, China
Dissertation: Neutral Solute Transport in Cartilage
Professor in charge of dissertation: Andras Z. Szeri, Ph.D.

**COLLEGE OF
HUMAN SERVICES, EDUCATION AND PUBLIC POLICY**
Dean Timothy K. Barnekov

Doctor of Education

Karen Marie Avino *Educational Leadership*
B.S.N., University of Delaware
M.S.N., University of Delaware
Executive Position Paper: Integrating Holistic Nursing at the University of Delaware
Professor in charge of executive position paper: Fred T. Hofstetter, Ph.D.

JoAnn A. Balingit *Educational Leadership*
B.A., Florida State University
M.L.S., Indiana University-Bloomington
M.A., University of California-Irvine
Executive Position Paper: Internet Plagiarism as Flash Point and Folklore: Do High School Students Plagiarize More From Internet Sources Than From Print-Based Sources?
Professor in charge of executive position paper: Albert R. Cavalier, Jr., Ph.D.

Gaysha Venee Beard *Educational Leadership*
B.F.A., Stephens College
M.Ed., University of Delaware
Executive Position Paper: The Adult Learner, Professional
Development, and the Literacy Coach: An Effective
Professional Development Model Proposal
Professors in charge of executive position paper: James Rath, Ph.D.
Carol Vukelich, Ph.D.

Katherine Alexander Beauchat *Educational Leadership*
B.S.Ed., Frostburg State University
M.Ed., Loyola College
Executive Position Paper: Making the Most of
Shared Reading in Preschool
Professor in charge of executive position paper: Sharon Walpole, Ph.D.

Donald W. Becker *Educational Leadership*
B.S., State University of New York, Oswego
M.F.A., University of Delaware
Executive Position Paper: Freshman Seminar Narrative Research:
Art Making and Writing in Symmetrical Relationship
Professor in charge of executive position paper: James A. Whitson, Ph.D.

Leanne Doreen (Clarke) Bier *Educational Leadership*
B.A., Concordia College, New York
M.I., University of Delaware
Executive Position Paper: Texts and Beginning Readers
Professor in charge of executive position paper: Rachel A. Karchmer-Klein, Ph.D.

Nancy S. Campbell *Educational Leadership*
B.A., McDaniel College
M.Ed., Towson University
Executive Position Paper: Delaware Technical & Community
College's Response to the Critical Shortage of Delaware
Secondary Science Teachers
Professor in charge of executive position paper: Douglas A. Archbald, Ph.D.

Bettyann Daley *Educational Leadership*
B.A., University of Vermont
M.S., University of Vermont
Executive Position Paper: A College Departmental
Plan to Address the Deficient Algebra Problem in
College Freshmen
Professor in charge of executive position paper: Brad J. Glass, Ph.D.

Deborah L. Doordan *Educational Leadership*
B.A., Lynchburg College
M.I., University of Delaware
Executive Position Paper: Coaches, a Component of the Professional
Development System: A Plan for the Christina School District
Professor in charge of executive position paper: Douglas A. Archbald, Ph.D.

Tracy T. Downs *Educational Leadership*
B.A., University of Delaware
M.A., University of Delaware
Executive Position Paper: High-Risk Drinking Among
Female Athletes at the University of Delaware:
Reducing Risk Through Intervention
Professor in charge of executive position paper: Frank B. Murray, Ph.D.

Christine Marie Evans *Educational Leadership*
B.S., University of Delaware
M.I., University of Delaware
Executive Position Paper: An Evaluation of a University-School
Elementary Literacy Partnership
Professor in charge of executive position paper: Robert L. Hampel, Ph.D.

Deborah Monaghan Fetzer *Educational Leadership*
B.S., West Chester University of Pennsylvania
M.I., University of Delaware
Executive Position Paper: A Job-Embedded Model of Professional
Development: The Path to Increased Literacy Achievement
for Middle School Students
Professor in charge of executive position paper: Sharon Walpole, Ph.D.

Joyce Ann Good *Educational Leadership*
B.Ed., West Chester University of Pennsylvania
M.Ed., Millersville University of Pennsylvania
M.S., Johns Hopkins University
Executive Position Paper: A Modified Train-the-Trainer
Professional Development Program Designed to Deliver
Spreadsheet Skills to Elementary Teachers and Students
Professor in charge of executive position paper: Fred T. Hofstetter, Ph.D.

Amy Michele Fitzgerald Gordon *Educational Leadership*
B.S.Ed., University of Delaware
M.I., University of Delaware
Executive Position Paper: Preparing Teachers to Use an Instructional
Management System to Differentiate Instruction
Professor in charge of executive position paper: Fred T. Hofstetter, Ph.D.

Bonnie Gail Hall *Educational Leadership*
B.S., Delaware State University
M.B.A., Delaware State University
Executive Position Paper: Implementing Universal Design for Instruction (UDI) Principles to Maximize Learning for Students with Disabilities at the Jack F. Owens Campus of Delaware Technical & Community College
Professor in charge of executive position paper: Robert L. Hampel, Ph.D.

Mark A. Holodick *Educational Leadership*
B.A., West Virginia Wesleyan College
M.S., Wilmington College Delaware
Executive Position Paper: Special Education: Implementing Inclusion at Concord High School
Professor in charge of executive position paper: Robert L. Hampel, Ph.D.

Paulinus Chimezie Iheanacho *Educational Leadership*
B.B.A., University of North Texas
M.B.A., Texas Women's University
M.S., University of North Texas
Executive Position Paper: A Plan for Making the University of Delaware's Morris Library More Accessible to Students From Developing Countries
Professor in charge of executive position paper: Fred T. Hofstetter, Ph.D.

Barbara LeSeur Inman *Educational Leadership*
B.A., Hampton University
MA, Hampton University
Executive Position Paper: Addressing Student Retention at Hampton University
Professor in charge of executive position paper: Barbara K. Curry, Ed.D.

Joseph M. Jones *Educational Leadership*
B.A., University of Delaware
M.Ed., Wilmington College, Delaware
Executive Position Paper: Improving the Use and Effectiveness of Data Among Teachers
Professor in charge of executive position paper: Douglas A. Archbald, Ph.D.

Julie B. Keleher *Educational Leadership*
B.A., University of Pennsylvania
M.S.Ed., University of Pennsylvania
Executive Position Paper: Use of Data Management Systems and Data-Driven Decision Making Among School-Level Administrators and School-Level Educators
Professor in charge of executive position paper: Douglas A. Archbald, Ph.D.

Josette Lorraine McCullough *Educational Leadership*
B.S.Ed., Delaware State University
M.A., Delaware State University
Executive Position Paper: A Study of Special Education Programming and Its Effect on Student Mathematic Performance on the DSTP
Professor in charge of executive position paper: Dennis L. Loftus, Ph.D.

Jeffrey Donald Menzer *Educational Leadership*
B.A., University of Delaware
M.Ed., University of Delaware
Executive Position Paper: The Non-Graduation of Seniors at William Penn High School
Professor in charge of executive position paper: Robert L. Hampel, Ph.D.

Sherman Miller *Educational Leadership*
B.S., Delaware State University
M.S., University of Delaware
Executive Position Paper: A Plan for Increasing Student Success in Business Calculus at Delaware State University
Professor in charge of executive position paper: James Whitson, Ph.D.

Larysa Nadia Nadolny *Educational Leadership*
B.S., Virginia Polytechnic Institute and State University
M.A.T., Boston University
Executive Position Paper: Laptops for all Students: Year One Evaluation of a Laptop Initiative in Career and Technical High School Education
Professor in charge of executive position paper: Chrystalla Mouza, Ed.D.

Lanetia Q. Noble *Educational Leadership*
B.S., University of North Texas
M.Ed., University of Delaware
Executive Position Paper: Evaluating a College Developmental Reading Program: Recommendations for Improvement
Professor in charge of executive position paper: Rachel A. Karchmer-Klein, Ph.D.

Mary T. Parsons *Educational Leadership*
B.S.W., Salisbury University
B.S.N., Salisbury University
M.N., Salisbury University
Executive Position Paper: Evaluating the Nursing Curriculum's Alignment with the National Certification Licensure Exam for Registered Nurses (NCLEX-RN)
Professor in charge of executive position paper: Barbara K. Curry, Ed.D.

Christina Geba Poetzl *Educational Leadership*
B.S.E., Millersville University of Pennsylvania
M.Ed., Millersville University of Pennsylvania
Executive Position Paper: Middle School Mathematics Teachers' Problem-Solving Beliefs and Practices in the School-Based Teacher Leader Program
Professor in charge of executive position paper: Dawn Berk, Ph.D.

Barbara Prillaman *Educational Leadership*
B.A., University of Delaware
M.Ed., University of Delaware
Executive Position Paper: Conversations to Help Make Meaning: Ells and Literature Circles
Professor in charge of executive position paper: Ralph Ferretti, Ph.D.

Melissa Lynn Rakes *Educational Leadership*
B.A., Montana State University–Billings
M.Ed., University of Delaware
Executive Position Paper: Developing an Academic Advisement Model to Support Student Retention at Delaware Technical & Community College, Jack F. Owens Campus
Professor in charge of executive position paper: Dennis L. Loftus, Ed.D.

Karen Michelle Rege *Educational Leadership*
A.M., University of Michigan–Ann Arbor
B.M., University of Hartford
M.S., Drexel University
Executive Position Paper: An Examination of Music Technology Requirements for Undergraduate Performance Majors
Professor in charge of executive position paper: Chrystalla Mouza, Ph.D.

Susan Marie Robinson Schranck *Educational Leadership*
B.A., University of Delaware
M.A., Villanova University
Executive Position Paper: Designing Performance Objectives to Improve English Language Proficiency: Conceptualizing a Call-Integrated Listening Curriculum at Delaware Technical & Community College Jack F. Owens Campus
Professor in charge of executive position paper: Douglas A. Archbald, Ph.D.

Margaret Virginia Torre Sharp *Educational Leadership*
B.S.Ed., University of Delaware
M.Ed., University of Delaware
Executive Position Paper: An Evaluation Study of Fast ForWord in the Christina School District
Professor in charge of executive position paper: James Rath, Ph.D.

Laura Lee Smith Wilkerson *Educational Leadership*
B.S., Slippery Rock University of Pennsylvania
M.Ed., University of Delaware
Executive Position Paper: Comparing the First Two Years of Positive Behavior Support (PBS) at Middletown High School (2004–2006)
Professor in charge of executive position paper: James A. Whitson, Ph.D.

George Steinhoff *Educational Leadership*
B.S., Saint Joseph's University
M.Ed., University of Pennsylvania
Executive Position Paper: Examining and Addressing Resistance to Change in an Elementary School
Professor in charge of executive position paper: Robert L. Hampel, Ph.D.

Meredith Carol Anderson Wesolowski *Educational Leadership*
B.S., University of Arizona
M.A., University of Georgia–Athens
Executive Position Paper: Facilitating Problem-Based Learning in an Online Biology Laboratory Course
Professor in charge of executive position paper: Chrystalla Mouza, Ed.D.

Loriann Megee White *Educational Leadership*
B.A., Salisbury University
M.Ed., Salisbury University
Executive Position Paper: A Middle School Under Review: A Study on the Effectiveness of Two Implementation Models of the Read 180 Program on Special Education Students' Reading Performance
Professor in charge of executive position paper: Primo V. Toccafondi, Ed.D.

Doctor of Philosophy

Katrin L. Blamey *Education*
B.A., Randolph-Macon Woman's College
M.A., University of Delaware
M.A., College of William and Mary
Dissertation: The Effects of Two Repeated Reading Treatments on Fluency and Comprehension of Second Grade Students
Professor in charge of dissertation: Sharon Walpole, Ph.D.

Jane N. Case *Urban Affairs & Public Policy*
B.A., Millersville University of Pennsylvania
M.S., Florida State University
Dissertation: An Exploratory Study of School
Climate and Student Behavior in Thirteen
Delaware Public Elementary Schools
Professor in charge of dissertation: Kathryn G. Denhardt, Ph.D.

Nicola Domica Edwards *Education*
B.A., State University of New York, Binghamton
M.S., University of Delaware
Dissertation: Elementary School Children's Strategy
Use and Strategy Preferences on Multidigit
Addition and Subtraction Story Problems
Professor in charge of dissertation: James Hiebert, Ph.D.

Lauren Lee Goggins *Education*
B.C.E., University of Delaware
M.S., University of Delaware
Dissertation: Eliciting Elementary Preservice Teachers'
Mathematical Knowledge for Teaching Using Instructional
Tasks That Include Children's Mathematical Thinking
Professor in charge of dissertation: Laura S. Glass, Ph.D.

Judi Therese Haberkorn *Urban Affairs & Public Policy*
B.S.W., University of Illinois at Urbana-Champaign
M.S.W., University of Illinois at Urbana-Champaign
M.B.A., Saint Xavier University
Dissertation: A Poverty of Information: Public Health
and the Local Television News
Professor in charge of dissertation: Danilo Yanich, Ph.D.

William Edison Lewis *Education*
B.S., East Stroudsburg University of Pennsylvania
M.A., Millersville University of Pennsylvania
Dissertation: The Effects of Genre-Specific Planning and
Topoi Instruction on the Analytical Literary Arguments
of High School Students
Professor in charge of dissertation: Ralph Ferretti, Ph.D.

Margaret M. Mack *Urban Affairs & Public Policy*
B.S.N., University of Delaware
M.A., New York University
Dissertation: Stress and Farming — An Unsustainable Relationship
Professor in charge of dissertation: Margaret J. Wilder, Ph.D.

Ekaterina Midgette *Education*
M.A., Moscow Linguistic University, Russian Federation
Dissertation: The Effects of Comprehensive Text
Structure Strategy Instruction On Students'
Ability to Revise Persuasive Essays
Professor in charge of dissertation: Nancy W. Brickhouse, Ph.D.

Wei Qiu *Human Development & Family Studies*
B.A., Nanjing University, China
M.A., Nanjing University, China
M.S., University of Delaware
Dissertation: Physical Activity Intervention in Early Care
and Education Settings
Professor in charge of dissertation: Penny L. Deiner, Ph.D.

Nicole Ruggiano *Urban Affairs & Public Policy*
B.A., University of Delaware
M.S.W., Temple University
Dissertation: Intergenerational Human Service Delivery
in the Formal Care Industry: A Case Study
Professor in charge of dissertation: Robert Warren, Ph.D.

Sandy Margaret Spitzer *Education*
B.A., University North Carolina-Chapel Hill
M.A., University North Carolina-Chapel Hill
M.A., University of Delaware
Dissertation: The Role of Graphing Calculators in Students'
Algebraic Thinking
Professor in charge of dissertation: Anne Morris, Ph.D.

Ximena Uribe-Zarain *Education*
B.S., Universidad Nacional Autonoma
Dissertation: Growth Mixture Modeling with a
Distal Outcome: An Application to Reading
and High Stakes Testing
Professor in charge of dissertation: James Rath, Ph.D.

Tracy Evian Waasdorp *Human Development & Family Studies*
B.A., Muhlenberg College
M.S.Ed., University of Pennsylvania
Dissertation: Coping With Relational Aggression Within
Children's Close Friendships
Professor in charge of dissertation: Aparna Bagdi, Ph.D.

Bethany J. Welch *Urban Affairs & Public Policy*
B.S., Roberts Wesleyan College
M.S., University of Rochester
Dissertation: The Catholic Church and Urban Revitalization:
A Case Study of the Office for Community Development
of the Archdiocese of Philadelphia
Professor in charge of dissertation: Margaret G. Wilder, Ph.D.

COLLEGE OF MARINE AND EARTH STUDIES

Dean Nancy M. Targett

Doctor of Philosophy

Brian Patrick Boutin *Marine Studies*
B.S., University of North Carolina–Wilmington
Dissertation: Tidal Tributaries and Adjacent Nearshore Areas as
Nursery Habitat for Juvenile Sciaenid Fishes and Blue
Crabs in Delaware Bay and the Delaware Coastal Bays
Professor in charge of dissertation: Timothy E. Targett, Ph.D.

Damian Coman Brady *Marine Studies*
B.S., Roger Williams University
Dissertation: Behavior of Juvenile Estuary-Dependent Fish in
Relation to the Spatial and Temporal Dynamics of
Diacycling Hypoxia in an Estuarine Tributary
Professor in charge of dissertation: Timothy E. Targett, Ph.D.

Elif Demir *Oceanography*
B.S., Ege Universitesi, Turkey
M.S., Old Dominion University
Dissertation: Application of Traditional and Molecular
Methods to Taxonomy, Ecology, and Ecophysiology of
Raphidophytes and a Novel Genus
Professor in charge of dissertation: David A. Hutchins, Ph.D.

Lisa Sandra Krinsky *Marine Studies*
B.S., University of Maryland–College Park
Dissertation: The Analysis of Pre- and Post-Settlement
Events of the Florida Stone Crab, *Menippe Mercenaria* (Say)
Professor in charge of dissertation: Charles Epifanio, Ph.D.

Andrew D. Krueger *Marine Studies*
B.S., University of Miami
Dissertation: Valuing Public Preferences for Offshore Wind Power:
A Choice Experiment Approach
Professor in charge of dissertation: Jeremy Firestone, Ph.D.

Kristen Leigh Kuhn *Marine Studies*
B.S., Pennsylvania State University
M.S., University of Maine, Orono
Dissertation: Assessment of Genetic Structure in Three
Southern Ocean Fishes Revealed by Mitochondrial and
Nuclear Single Nucleotide Polymorphisms (SNPS)
Professor in charge of dissertation: Patrick M. Gaffney, Ph.D.

Elizabeth Ann McCliment *Marine Studies*
B.S., Texas A&M University–Galveston
Dissertation: Phylogenetic and Metabolic Diversity of Microbial
Communities Inhabiting Deep-Sea Hydrothermal Ecosystems
Professor in charge of dissertation: S. Craig Cary, Ph.D.

Coren Audrey Milbury *Marine Studies*
B.S., University of New Hampshire
M.S., University of Delaware
Dissertation: The Mitochondrial Genome of the Eastern Oyster,
Crassostrea Virginica: The Complete DNA Sequence and Its
Application in Local Restoration Efforts
Professor in charge of dissertation: Patrick M. Gaffney, Ph.D.

Tommy S. Moore *Marine Studies*
B.S., University of Montana–Missoula
M.A., Boston University
Dissertation: Coupling Chemical, Physical and Biological
Sensors for Time Series Analysis of Deep Sea Hydrothermal
Vent and Coastal Environments
Professor in charge of dissertation: George W. Luther III, Ph.D.

Karen Nicole Pelletreau *Marine Studies*
B.S., University of New Hampshire
M.S., Western Washington University
Dissertation: The Application of Molecular Tools Towards
the Study of Brown Algal Chemical Ecology and the
Production of Phlorotannins
Professor in charge of dissertation: Nancy M. Targett, Ph.D.

Kevin J. Portune *Marine Studies*
B.S., Marquette University
Dissertation: Improved Detection Methods for Harmful
Algal Germination and Cyst Distribution Within Delaware's
Inland Bays, USA
Professor in charge of dissertation: S. Craig Cary, Ph.D.

INTERDISCIPLINARY PROGRAMS

Doctor of Philosophy

- Sudhaker Chhabra *Biomechanics & Movement Science*
B.Tech., Indian Institute of Technology, Delhi, India
M.S.M.E., University of Delaware
Dissertation: Fluid Flow and Particle Dispersion in Lung Acini
Professor in charge of dissertation: Ajay K. Prasad, Ph.D.
- Adam Matthew Fullenkamp *Biomechanics & Movement Science*
B.S., University of Toledo
M.S., University of Toledo
Dissertation: A Hybrid Gait Recognition Solution
Using Video and Ground Contact Information
Professor in charge of dissertation: James G. Richards, Ph.D.
- Wei-Li Hsu *Biomechanics & Movement Science*
B.S., National Yang-Ming University, Taiwan
M.S., National Yang-Ming University, Taiwan
Dissertation: Multi-Joint Coordination Underlies Upright
Postural Control
Professor in charge of dissertation: John P. Scholz, Ph.D., P.T.
- John David Willson *Biomechanics & Movement Science*
B.S., University of Minnesota–Minneapolis
M.P.T., Wisconsin State University–LaCrosse
Dissertation: Hip Strength and Lower Extremity Mechanics
in Females With and Without Patellofemoral Pain
Professor in charge of dissertation: Irene S. Davis, Ph.D., P.T.