Dr. Jennifer K. Gilbert

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.

Dr. Jie Han

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.

Dr. Christopher Maurice Heckscher

B.S., Colorado State University
M.S., University of Delaware
Dissertation: Use of the Veery (Catharus Fuscenes) Call Repertoire in Vocal Communication
Professor in charge of dissertation: Roland R. Roth, Ph.D.

Dr. Volha I. Lazouskaya

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.

Dr. Jason Adam Mills

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

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

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.

Dr. Luisa Ines Santamaria

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.

Dr. Renato Jose Schmidt

B.S., Federal University of Vicsao, 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

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 Philosophy**

Bindiya Arora  
B.Sc., Panjab University, India  
M.Sc., Panjab University, India  
**Dissertation:** Modeling of Atomic Systems for Quantum Information and Atomic Clocks  
**Professor in charge of dissertation:** Marianna Safronova, Ph.D.

Shalini Balakrishnan  
B.Sc., University of Madras, India  
M.Sc., University of Madras, India  
**Dissertation:** Development of Novel Switchable Motifs and New Strategies to Build Functionally Privileged Structures  
**Professor in charge of dissertation:** Neil J. Zondlo, Ph.D.

Jon Regan Beckham  
B.S., University of Central Arkansas  
M.S., University of Delaware  
M.A., University of Central Arkansas  
**Dissertation:** Analysis of Mathematical Models of Electrostatically Deformed Elastic Bodies  
**Professor in charge of dissertation:** John A. Pelesko, Ph.D.

Benjamin Alan Breech  
B.A., Shippensburg University of Pennsylvania  
B.S., Shippensburg University of Pennsylvania  
M.S., University of Delaware  
**Dissertation:** Improving Software Maintenance and Security Testing Through Dynamic Compilers  
**Professor in charge of dissertation:** Lori L. Pollock, Ph.D.

Anissa Joy Brown  
B.A., University of Delaware  
**Dissertation:** Function of Heparan Sulfate Proteoglycans (HSPGs) and Heparanase (HPSE) in Endochondral Bone Formation  
**Professor in charge of dissertation:** Mary Farach-Carson, Ph.D.

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**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

Jennifer Lee Binkley  
B.A., University of Delaware

Janelle Kristen Cannon  
B.A., University of Delaware

Jessalyn Ann Ciampa  
B.S., State University of New York–Geneeseo

Kathryn Gray Curtis  
B.S., Evangel University

Caralina Dee Suriben David  
B.A., University of California–Irvine

Tyeshia Monique Dwight  
B.A., University of Delaware

Kyle T. Fennimore  
B.A., University of Delaware  
B.S., University of Delaware

Lakisha Freeman Fulton  
B.S., Pennsylvania State University

Lauren Elizabeth Grieder  
B.A., University of Delaware

Thomas Andrew Handling  
B.A., University of Delaware  
B.S., University of Delaware

Krista Ann Horne  
B.S., University of Delaware

Christine Lynn Keighley  
B.S., University of Delaware

Samantha Joy Lefkowitz  
B.S., Ohio State University

Karrie Lowry  
B.S., University of Delaware

Valerie Jean Martineau  
B.S., College of William and Mary

Faith Virginia Morton  
B.S., Grove City College

Krystal Lynn Perrone  
B.A., Arcadia University

Melissa Jean Ronan  
B.S., Boston University

Lisa Rochelle Saltzman  
B.A., University of Virginia

Jennifer Ann Schmidt  
B.S., University of Delaware

Matthew Gerard Scott  
B.A., University of Delaware

Julienne Rose Sinkosky  
B.S., University of Delaware

Tiffany Sue Strawn  
B.S., Texas Christian University

Kelsey Lee Vagnoni  
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
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 Proxl 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 Intraracial 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
Professor in charge of dissertation: Charles G. Riordan, Ph.D.

Matthew Aaron Dreysus  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  Biological Sciences
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  Biology
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 Herudyono  Applied Mathematics
B.Sc., Universitas Indonesia
M.Sc., Southern Illinois University–Edwardsville
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:** Dioxyn Activation by Low Valent Hydrotris (Pyrazolyl) Borate Iron Complexes  
**Professor in charge of dissertation:** Klaus Theopold, Ph.D.

Matthew Thomas Kiefer-Emmons  
**Chemistry & Biochemistry**  
B.S., Saint Joseph’s University  
M.S., Towson University  
**Dissertation:** Oxygen and Sulfer 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 Leigey  
**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. Mayer-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  
**Physics**  
B.S., Bharathidasan University, India  
M.S., Indian Institute of Technology, Madras, India  
*Dissertation:* Relativistic Rescattering and Multi-electron Ionization of Atoms and Molecules in Ultra-Strong Laser Fields  
*Professor in charge of dissertation:* Barry Walker, Ph.D.

Mahesh Kumar Pallerla  
**Chemistry & Biochemistry**  
B.S., Sri Satya Sai Institute of Higher Learning, India  
M.S., Sri Satya Sai Institute of Higher Learning, India  
*Dissertation:* Strain as a Design Principle — Steroselective Pauson-Khand Reactions of Cyclopropenes  
*Professor in charge of dissertation:* Joseph M. Fox, Ph.D.

Sara Lynn Parker  
**Political Science & International Relations**  
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.

Luis Abel Ralat Touset  
**Chemistry & Biochemistry**  
B.S., Millersville University of Pennsylvania  
*Dissertation:* Insights Into the Multiple Functions of Glutathione S-Transferase P1-1: Characterization of Its Several Ligand Sites and Examination of Its Interactions with 1-Cysteine Peroxiredoxin  
*Professor in charge of dissertation:* Roberta F. Colman, Ph.D.

Jason Edward Reiss  
**Psychology**  
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.

Basmah Riaz  
**Physics**  
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.

Meghan Ashlin Rich  
**Sociology**  
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.

Therese M. Rizzo  
**English**  
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.

Robert Joseph Ronkese  
**Applied Mathematics**  
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.

Natalie Leor Rosenthal  
**Psychology**  
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.

Ronnie M. Rubin  
**Psychology**  
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.

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

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.

Oluwikayo 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.

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**ALFRED LERNER COLLEGE OF BUSINESS AND ECONOMICS**  
*Dean Conrado M. Gempesaw II*  

**Doctor of Philosophy**

Olawole Nasser Yay  
*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.
Laetitia Mary Bonnailie, Chemical Engineering
Ing., Ecole Nationale Superieure d’Ingénieurs de Genie 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.

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.

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.

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.

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 Chungqing, 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.

Korhan Demirkan, Materials Science & Engineering
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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.

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  
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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  
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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  
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B.S., Institute Tecnologico 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.

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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 TiO$_2$: Effect of Nitrogen Doping, Oxygen Vacancy, and Particle Size

*Professor 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.

Aanoop Mathew  
*Materials Science & Engineering*

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

*Professor in charge of dissertation:* Robert L. Opila, Ph.D.
<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>University</th>
<th>Degree(s)</th>
<th>Dissertation</th>
<th>Professor in charge of dissertation</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Michael Metzler</td>
<td>Civil Engineering</td>
<td>B.S., Roger Williams University</td>
<td>M.A.S., University of Delaware</td>
<td>Dissertation: Responses of <em>Pseudokirchneriella Subcapitata</em> and Algal Assembly to Photocatalytic Titanium Dioxide Nanoparticles</td>
<td>Chin Pao Huang, Ph.D.</td>
</tr>
<tr>
<td>Kapil Mukati</td>
<td>Chemical Engineering</td>
<td>B.Tech., Indian Institute of Technology, Madras, India</td>
<td></td>
<td>Dissertation: An Alternative Structure for Next Generation Regulatory Controllers and Scale-Up of CU(INGA) SE₂ Thin Film Co-Evaporative Physical Vapor Deposition Process</td>
<td>Robert W. Birkmire, Ph.D.</td>
</tr>
<tr>
<td>Luis Eduardo Murillo</td>
<td>Materials Science &amp; Engineering</td>
<td>B.S., University of Valle del Cauca, Colombia</td>
<td>M.S., University of Puerto Rico, Mayaguez</td>
<td>Dissertation: Controlling Hydrogenation Activity and Selectivity of Bimetallic Surfaces and Catalysts</td>
<td>Jingguang G. Chen, Ph.D.</td>
</tr>
<tr>
<td>Armin Walter Opitz</td>
<td>Chemical Engineering</td>
<td>B.E., University of Pittsburgh</td>
<td></td>
<td>Dissertation: Structural and Functional Investigations of a Molecular Imaging Nanoparticle for Magnetic Resonance Imaging of Oncogene Expression in the Pancreas</td>
<td>Norman J. Wagner, Ph.D.</td>
</tr>
<tr>
<td>Yinan Qi</td>
<td>Civil Engineering</td>
<td>B.E., Harbin Institute of Technology, China</td>
<td>M.Phil., Hong Kong University of Science &amp; Technology, China</td>
<td>Dissertation: Effect of Centrifugal Dewatering on the Regrowth of Fecal Coliforms and Salmonella in Anaerobically Digested Biosolids</td>
<td>Steven K. Dentel, Ph.D.</td>
</tr>
<tr>
<td>Danielle Nicole Rockwood</td>
<td>Materials Science &amp; Engineering</td>
<td>B.S., James Madison University</td>
<td></td>
<td>Dissertation: Characterization of Electrospun Polymer Fibers for Applications in Cardiac Tissue Engineering and Regenerative Medicine</td>
<td>John F. Rabolt, Ph.D.</td>
</tr>
<tr>
<td>Christopher Arnim Schuetz</td>
<td>Electrical &amp; Computer Engineering</td>
<td>B.S.E.E., Virginia Polytechnic Institute and State University</td>
<td>M.E.E., University of Delaware</td>
<td>Dissertation: Optical Techniques for Millimeter-Wave Detection and Imaging</td>
<td>Dennis Prather, Ph.D.</td>
</tr>
<tr>
<td>Prateek Pinkin Shah</td>
<td>Chemical Engineering</td>
<td>B.S., Carnegie Mellon University</td>
<td></td>
<td>Dissertation: Thermodynamics of Apolar Solvation in Mixed Aqueous Solvents</td>
<td>Christopher J. Roberts, Ph.D.</td>
</tr>
<tr>
<td>Dan Su</td>
<td>Mechanical Engineering</td>
<td>B.S., Shanghai Jiaotong University, China</td>
<td>M.S., Shanghai Jiaotong University, China</td>
<td>Dissertation: Microcrack Damage and Its Effect on Stress Wave Propagation</td>
<td>Michael H. Santare, Ph.D.</td>
</tr>
<tr>
<td>Wenzhong Tang</td>
<td>Mechanical Engineering</td>
<td>B.E., Beijing University of Chemical Technology, China</td>
<td>M.E., Beijing University of Chemical Technology, China</td>
<td>Dissertation: Molecular Dynamics Simulations of Carbon Nanotubes in Liquid Flow</td>
<td>Suresh G. Advani, Ph.D.</td>
</tr>
<tr>
<td>Rohit Vijay</td>
<td>Chemical Engineering</td>
<td>B.Tech., Indian Institute of Technology, Madras, India</td>
<td>M.Tech., Indian Institute of Technology, Madras, India</td>
<td>Dissertation: Discovery and Mechanistic Investigation of NOₓ Traps and NH₃ Decomposition Catalysts Using High-Throughput Experimentation</td>
<td>Jochen A. Lauterbach, Ph.D.</td>
</tr>
</tbody>
</table>
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  
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*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  
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*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.*

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*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  
B.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 Raths, Ph.D.  
Carol Vukelich, Ph.D.

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

Donald W. Becker  
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  
*Professors in charge of executive position paper:* James A. Whitson, Ph.D.

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

Nancy S. Campbell  
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  
*Professors in charge of executive position paper:* Douglas A. Archbald, Ph.D.

Bettaynn Daley  
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  
*Professors in charge of executive position paper:* Brad J. Glass, Ph.D.

Deborah L. Doordan  
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  
*Professors in charge of executive position paper:* Douglas A. Archbald, Ph.D.

Tracy T. Downs  
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  
*Professors in charge of executive position paper:* Frank B. Murray, Ph.D.

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

Deborah Monaghan Fetzer  
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  
*Professors in charge of executive position paper:* Sharon Walpole, Ph.D.

Joyce Ann Good  
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-Train Professional Development Program Designed to Deliver Spreadsheet Skills to Elementary Teachers and Students  
*Professors in charge of executive position paper:* Fred T. Hofstetter, Ph.D.

Amy Michele Fitzgerald Gordon  
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  
*Professors in charge of executive position paper:* Fred T. Hofstetter, Ph.D.
Bonnie Gail Hall  
B.S., Delaware State University  
M.B.A., Delaware State University  
Professor in charge of executive position paper: Robert L. Hampel, Ph.D.

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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  
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  
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  
B.A., University of Delaware  
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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  
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  
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  
B.A., University of Delaware  
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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.

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B.S., Delaware State University  
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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  
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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  
B.S., University of North Texas  
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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  
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  
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  
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  
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  
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  
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  
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 Raths, Ph.D.

Laura Lee Smith Wilkerson  
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  
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  
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  
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  
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 Raths, 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 Diel Cycling 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 Rhipidophytes and a Novel Genus
Professor in charge of dissertation: David A. Hutchins, Ph.D.

Lisa Sandra Krimsy  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 Mc Clement  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.
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.