



THE  
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**CHARLES A. CARMELLO DISTINGUISHED DISSERTATION AWARDS  
SPRING 2020 AWARDS FOR 2019 DISSERTATIONS**

**SOCIAL SCIENCES**

**Zafar Imran, Ph.D.**

Department of Public Policy

Dissertation Title: *"Climate change and political contention - A mechanism-based framework"*

Dissertation Advisor: Research Professor Nancy Gallagher

**HUMANITIES AND FINE ARTS**

**Jeffrey Griswald, Ph.D.**

Department of English

Dissertation Title: *"THE POLITICAL ANIMAL: EARLY MODERN LITERATURE AND HUMAN EXCEPTIONALISM"*

Dissertation Advisor: Professor Amanda Bailey

**MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING**

**Christopher Eckberg, Ph.D.**

Department of Physics

Dissertation Title: *"SUPERCONDUCTING ENHANCEMENT AND ELECTRONIC NEMATICITY IN SUBSTITUTED BaNi<sub>2</sub>As<sub>2</sub>"*

Dissertation Advisor: Professor Johnpierre Paglione

**BIOLOGICAL AND LIFE SCIENCES**

**Alexander Sohr, Ph.D.**

Department of Cell Biology and Molecular Genetics

Dissertation Title: *"The mechanisms and roles of post-translational processing of the Drosophila Fibroblast Growth Factor Branchless during development"*

Dissertation Advisor: Associate Professor Sougata Roy



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**CHARLES A. CARMELLO DISTINGUISHED DISSERTATION AWARDS  
HIGHLY COMMENDED FOR 2019 DISSERTATIONS**

**HUMANITIES AND FINE ARTS**

**Eleanor Chamberlain Stoltzfus, Ph.D.**

Department of Art History

Dissertation Title: *"New Womanhood and the Bauhaus: The Avant-Garde Photography of Lucia Moholy"*

**BIOLOGICAL AND LIFE SCIENCES**

**Da Yin, Ph.D.**

Department of Cell Biology and Molecular Genetics

Dissertation Title: *"GENOMIC AND REPRODUCTIVE CONSEQUENCES OF SELF-FERTILITY IN CAENORHABDITIS NEMATODES"*

**MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING**

**Jeremy T. Young, Ph.D.**

Department of Physics

Dissertation Title: *"NONEQUILIBRIUM DYNAMICS IN OPEN QUANTUM SYSTEMS"*

**MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING**

**Divya Patel, Ph.D.**

Department of Bioengineering

Dissertation Title: *"ENGINEERING EXTRACELLULAR VESICLE PRODUCTION ENVIRONMENT TOWARDS SCALABILITY AND ENHANCED THERAPEUTIC POTENCY"*



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### CHARLES A. CARMELLO DISTINGUISHED DISSERTATION AWARDS FOR 2019

#### SOCIAL SCIENCES

##### **Miranda Galvin, Ph.D.**

Department of Criminology and Criminal Justice

Dissertation Title: *"Prosecution and Sentencing of White Collar Crime in Federal Court: Understanding Paths and Processes"*

Dissertation Advisor: Professor Sally S. Simpson

#### HUMANITIES AND FINE ARTS

##### **Raino Isto, Ph.D.**

Department of Art History & Archaeology

Dissertation Title: *"Monumental Endeavors: Sculpting History in Southeastern Europe, 1960-2016"*

Dissertation Advisor: Distinguished University Professor Steven Mansbach

#### MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING

##### **Yonggang Yao, Ph.D.**

Department of Materials Science and Engineering

Dissertation Title: *"High Temperature Nanomanufacturing for Emerging Technologies"*

Dissertation Advisor: Associate Professor Liangbing Hu

#### BIOLOGICAL AND LIFE SCIENCES

##### **Clement Opoku-Temeng, Ph.D.**

Department of Chemistry and Biochemistry

Dissertation Title: *"Small Molecule Inhibitors of Cyclic Di-Amp Signaling"*

Dissertation Advisor: Associate Professor Douglas A. Julin



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**CHARLES A. CARMELLO DISTINGUISHED DISSERTATION AWARDS  
FOR 2018**

**SOCIAL SCIENCES**

**Emily Rosenzweig, Ph.D.**

College of Education, Department of Human Development and Quantitative Methodology

Dissertation Title: *“More Useful, or Not So Bad? Evaluating the Effects of Interventions to Reduce Perceived Cost and Increase Utility Value with College Physics Students”*

Dissertation Advisor: Professor Allan L. Wigfield

**HUMANITIES AND FINE ARTS**

**Meredith Styer, Ph.D.**

College of Arts and Humanities, Department of Communication

Dissertation Title: *“Inventing and Delivering the Woman Citizen: Susan B. Anthony's Extemporaneous Speaking as a Performance of Citizenship in Service of Woman Suffrage”*

Dissertation Advisor: Professor Kristjana Lyn Maddux

**MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING**

**Pablo Andrés Solano Palma, Ph.D.**

College of Computer, Mathematical, and Natural Sciences, Department of Physics

Dissertation Title: *“Quantum Optics in Optical Nanofibers”*

Dissertation Advisor: Professor Luis A. Orozco

**BIOLOGICAL AND LIFE SCIENCES**

**Lisa Tostanoski, Ph.D.**

A. James Clark School of Engineering, Fischell Department of Bioengineering

Dissertation Title: *“Engineering Biomaterials to Promote Systemic, Antigen-Specific Tolerance”*

Dissertation Advisor: Professor Christopher M. Jewell



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**CHARLES A. CARMELLO DISTINGUISHED DISSERTATION AWARDS  
FOR 2017**

**SOCIAL SCIENCES**

**Shota Momma, Ph.D.**

College of Arts and Humanities, Department of Linguistics

Title: "*Parsing, Generation, and Grammar*"

Dissertation Advisor: Professor Colin Phillips, Linguistics

**HUMANITIES AND FINE ARTS**

**Caroline Shields, Ph.D.**

College of Arts and Humanities, Department of Art History

Title: "*Objects of Memory: Paul Gauguin and Still-Life Painting, 1880-1901*"

Dissertation Advisor: Professor June Hargrove, Art History

**MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING**

**Ming Tang, Ph.D.**

College of Computer, Mathematical, and Natural Sciences, Department of Geology

Title: "*Geochemistry of Crust Formation and Evolution: A Dissertation Briefing*"

Dissertation Advisors: Professor William F. McDonough, Geology

Professor Roberta Rudnick, Geology

**BIOLOGICAL AND LIFE SCIENCES**

**Haoyue Zhang, Ph.D.**

College of Computer, Mathematical, and Natural Sciences, Biological Sciences Program

Title: "*Investigation of Smooth Muscle Cell Death & Genome Instability in  
Hutchinson-Gilford Progeria Syndrome*"

Dissertation Advisor: Professor Kan Cao, Cell Biology and Molecular Genetics



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**University of Maryland Distinguished Dissertation Awards for 2016**

**Biological and Life Sciences**

**Daniel Bryden, Ph.D.**

College of Behavioral and Social Sciences, Neuroscience and Cognitive Science Program

Title: *“Response Inhibition and the Cortico-Striatal Circuit”*

Dissertation Advisor: Dr. Matthew Roesch, Psychology

**Humanities and Fine Arts**

**Amanda Visconti, Ph.D.**

College of Arts and Humanities, Department of English

Title: *“How Can You Love a Work If You Don't Know it?: Critical Code and Design Toward Participatory Digital Editions”*

Dissertation Advisor: Dr. Matthew Kirschenbaum, English

**Mathematics, Physical Sciences, and Engineering**

**Adam Behrens, Ph.D.**

A. James Clark School of Engineering, Fischell Department of Bioengineering

Title: *“Polymeric Materials for Hemostatic and Surgical Sealant Applications”*

Dissertation Advisor: Dr. Peter Kofinas, Bioengineering

**Social Sciences**

**Benjamin Munyan, Ph.D.**

Robert H. Smith School of Business, Department of Business and Management

Title: *“Short Term Funding Markets and Systemic Risk”*

Dissertation Advisor: Dr. Russell Wermers, Finance