



THE  
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UMD CHARLES A. CARMELLO DISTINGUISHED DISSERTATION AWARD  
2020 DISSERTATIONS

AWARDS

**SOCIAL SCIENCES**

**Cody Tuttle, Ph.D.**

Department of Economics

Dissertation Title: *"Essays on Government Responses to Crime and Racial Inequality"*

Dissertation Advisor: Professor Melissa Kearney

**HUMANITIES AND FINE ARTS**

**Lisa Carney, Ph.D.**

Department of Spanish and Portuguese

Dissertation Title: *"By the Authority of Dreams: Truth and Knowledge in Kichwa Muskuy Narratives"*

Dissertation Advisor: Professor Regina Harrison

**MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING**

**Eric Marcz, Ph.D.**

Department of Materials Science and Engineering

Dissertation Title: *"Broadband Permittivity Characterization of Tunable Dielectric Thin Films for Millimeter-wave Devices"*

Dissertation Advisor: Professor Ji-Cheng Zhao

**BIOLOGICAL AND LIFE SCIENCES**

**Alexander Simon, Ph.D.**

Biological Sciences Program

Dissertation Title: *"Molecular Evolution and Biophysical Characterization of Plant Glutamate Receptor-like Ion Channels"*

Dissertation Advisor: Professor Jose Feijo



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UMD CHARLES A. CARMELLO DISTINGUISHED DISSERTATION AWARD  
2020 DISSERTATIONS

HONORABLE MENTIONS

**HUMANITIES AND FINE ARTS**

**Gerard Holmes, Ph.D.**

Department of English

Dissertation Title: *"DISCRETION IN THE INTERVAL: EMILY DICKINSON'S MUSICAL PERFORMANCES"*

Dissertation Advisor: Professor Martha Nell Smith

**MATHEMATICS, PHYSICAL SCIENCES, AND ENGINEERING**

**Yuan Su, Ph.D.**

Department of Computer Science

Dissertation Title: *"Algorithms for quantum simulation: design, analysis, implementation, and application"*

Dissertation Advisor: Professor Andrew Childs

**Proloy Das, Ph.D.**

Department of Electrical and Computer Engineering

Dissertation Title: *"Bayesian Modeling and Estimation Techniques for the Analysis of Neuroimaging Data"*

Dissertation Advisor: Associate Professor Behtash Babadi

**BIOLOGICAL AND LIFE SCIENCES**

**Edward Hurme, Ph.D.**

Biological Sciences Program

Dissertation Title: *"Movement ecology of the Mexican fish-eating bat, Myotis Vivesi"*

Dissertation Advisor: Professor Gerald Wilkinson