



### University Honors Program Presenters

#### **CAFOs and Contamination: A Comparison of Resistance Genotypes and Phenotypes in *E. coli* Isolated from Kewaunee River and Area Hospitals**

Ellen Bakke, A&S, Biological Sciences  
Faculty mentor: Krassimira Hristova, Biological Sciences

#### **What Makes a Community? Reception to Mixed-Gender Living in Residence Halls**

Emma Baumgart, Communication, Corporate Communication & Environmental Studies  
Andi Sirokman, A&S, Philosophy  
Faculty mentors: Jody Jessup-Anger, Educational Policy and Leadership and Theresa Tobin, Philosophy

#### **The Malignant Indifference to Civics Education: College Edition**

Dan Brophy, A&S, Political Science  
Faculty mentor: Barrett McCormick, Political Science

#### **Automation in the U.S. Trucking Industry: Capitalist Imperatives in Technological Design**

Jared Corbett, A&S, Philosophy and Economics, Computer Science  
Seth Haines, A&S, Political Science  
Faculty mentors: Grant Silva, Philosophy, and Michael McCarthy, Sociology

#### **Battle of the Sexes: PACAP Regulates Hedonic Responses to Palatable Food in the Nucleus Accumbens**

Tanya Dabra, Health Sciences, Biomedical Sciences  
Faculty mentor: SuJean Choi, Biomedical Sciences

#### **Assessing Chaperone Effects on the Aggregation of Transthyretin**

Emily Davis, A&S, Biological Sciences  
Faculty mentor: Anita Manogaran, Biological Sciences

#### **Tetrahydrofuran Analogs of ML161 as PAR1 Ligands**

Trevor Foster, A&S, Biochemistry and Molecular Biology, Philosophy  
Faculty mentor: Chris Dockendorff, Chemistry

#### **The Role of Endocannabinoids in Corticosterone Potentiated Reinstatement**

Paul Gottshall, A&S, Biomedical Sciences, Neuroscience  
Faculty mentor: John Mantsch, Biomedical Sciences

#### **Citizenship and Belonging: An Immigrant's Struggle for Acceptance in America**

Jack Hodes, A&S, Individual Interdisciplinary Major  
Faculty mentor: Sameena Mulla, Social and Cultural Sciences

#### **Cognitive Deficits in a Neurodevelopmental Animal Model of Schizophrenia: Behavioral Flexibility**

Laura Kelble, Health Sciences, Biomedical Sciences  
Faculty mentor: M. Behnam Ghasemzadeh, Biomedical Sciences

#### **Does G protein-gated inwardly-rectifying in brain regions like the prefrontal cortex or hippocampus promote dysregulation of cognitive function?**

Steven Loke, Health Sciences, Biomedical Sciences  
Faculty mentor: Matthew Hearing, Biomedical Sciences

#### **Impact of Racially Biased Police Violence on Willingness to Communicate**

Maggie McPike, A&S, Psychology  
Faculty mentor: Nakia Gordon, Psychology

#### **Analyzing Bias in Popular Machine Learning Algorithms**

Justin Miller, A&S, Computer Science  
Faculty mentor: Shion Guha, Mathematics, Statistics and Computer Science

#### **The n-dimensional Parity Check Coding Scheme over Finite Fields**

Phuc Nguyen, A&S, Mathematics, Statistics and Computer Science  
Faculty mentor: Wim Ruitenburg, Mathematics, Statistics and Computer Science

#### **Characterizing the Role of a Dopaminergic Circuit in Relapse to Drug Seeking Using Intersectional Chemogenetics**

Michael Nordness Health Sciences, Biomedical Sciences  
Faculty mentor: John Mantsch, Biomedical Sciences

#### **Non-intersecting Diagonals in Three Dimensions**

Ivan Roth, A&S, Mathematics, Statistics and Computer Science  
Faculty mentor: John Engbers, Mathematics, Statistics and Computer Science

#### **Investigating how Aprotic Solvents Induce Autophagy to Cure Prions**

Francesca Shilati, A&S, Biological Sciences  
Faculty mentor: Anita Manogaran, Biological Sciences

#### **Infestation of Trees by Lianas on Barro Colorado Island, Panama**

MaryRose Weatheron, A&S, Biological Sciences  
Faculty mentor: Stefan Schnitzer, Biological Sciences

### The Ronald E. McNair Scholars Presenters

#### **Drug Treatment Courts: The Paradox of Therapeutic Jurisprudence**

Eliza Luvianos, A&S, Political Economy and Public Policy, Criminology and Law Studies  
McNair Scholar

### Helen Way Klingler College of Arts and Sciences Presenters

#### **Prototype Scintillator Development for the IceCube Neutrino Observatory**

Dominic Battaglia, A&S, Physics  
Ian Ritzinger, A&S, Physics  
Faculty mentor: Karen Andeen, Physics

#### **Einzel Lens Calculation and Design for the ALPHA Experiment**

Bradley Cole, A&S, Physics  
Faculty mentor: Tim Tharp, Physics

#### **Synthesizing Parmodulins: Modulators of Protease-Activated Receptor 1**

Roland Diby Milwaukee Area Technical College,  
Faculty mentor: Chris Dockendorff, Chemistry

#### **Diagnostic Equipment for Antimatter Plasmas**

Sebastian Konewko, A&S, Physics and Mechanical Engineering  
Faculty mentor: Tim Tharp, Physics

#### **Gamma-rays from MeV Blazars with AMEGO**

Elise Rimsa, A&S, Physics  
Mentor: Regina Caputo (NASA)

#### **Magnetization Reversal in Spiral Ferromagnetic Spirals**

Ryan Schumm, A&S, Data Science and Physics  
Faculty mentor: Andrew Kunz, Physics.