

ACADEMIC PROGRESS COMMITTEE  
HONORS LIST 2019-2020

*Africana Studies*

|               |   |              |
|---------------|---|--------------|
| Nina Milligan | Colonialism and Conversion: The Case of the Kikuyu of Kenya | Robert Blunt |
|---------------|---|--------------|

*Anthropology & Sociology*

|                    |   |                                   |
|--------------------|---|-----------------------------------|
| Yazmin Baptiste    | Respeto lo que no siembras  | Neha Vora                         |
| Sarah Heins        | Climate Change and Sustainability in Museums: Questions of Accessibility  | Andrea Armstrong<br>Caroline Lee  |
| Katherine Hill     | The Impact of Preconception Interventions on Infant Health Outcomes   | Carlos Tavares                    |
| Ayat Hussein       | Precurity and Insecurity in Contemporary Beirut   | William Bissell                   |
| Rebecca Stargel    | Testing the Effects of Gender Essentialism and Transphobia on Defining and Categorizing Transgender People  | Angela Bell<br>Dave Shulman       |
| Camilla Samuelsson | Undocumented and Pregnant: Californian Healthcare Providers' Perspectives on Barriers and Benefits to Maternal Medical Care for Undocumented Immigrants | Rebecca Kissane<br>Carlos Tavares |

*Art*

|                     |                              |                |
|---------------------|------------------------------|----------------|
| Clark Addis         | Clock of Sevens              | Nestor Gil     |
| Lesley Idrovo-Pauta | El Recorder, Vivir, y Grabar | Nestor Gil     |
| Regan Kinney        | Seclusion                    | Pedro Barbeito |

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|-----------------|-----------------|-----------------|
| Adrian Pinos    | “La Lucha”      | Pedro Barbeito  |
| Tori Schoen     | Pandemic        | Nestor Gil      |
| Dmitry Smith    | Student Athlete | Karina Skvirsky |
| Alexandra Vogel | Interplay       | Karina Skvirsky |

***Asian Studies***

|            |   |              |
|------------|---|--------------|
| Ren Makino | Yamabe Kentarō: The Modern Japanese Individual and the Margins of the Public Sphere | Paul Barclay |
|------------|---|--------------|

***Biology***

|                   |  |                    |
|-------------------|--|--------------------|
| Grace Gibbons     | Exploring the Relationship Between DNA Methylation, Gene Expression Differences on the X-Chromosome, and Epigenetic Drug Response in Lung Cancer Sex Disparities | Khadijah Mitchell  |
| Daniel Goodman    | Pre-dam removal risk assessment of atrazine in Bushkill Creek  | Megan Rothenberger |
| Jennifer Schwartz | Assessing Metabolism of Macrophages in the Immune Response to Murine Mammary Carcinoma   | Robert Kurt        |
| Emma Stierhoff    | Resistance vs. Tolerance in Parasitized House Sparrow ( <i>Passer domesticus</i> ) Nestlings   | Mike Butler        |

***Chemical & Biomolecular Engineering***

|                 |  |                 |
|-----------------|--|-----------------|
| Cameron Cranley | Engineering CO <sub>2</sub> -Responsive Polymers with Tunable Swellability | Melissa Gordon  |
| Jodi Graf       | Carbon Dioxide Responsive Hydrogels for Diabetic Wound Healing             | Lauren Anderson |

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|--------------|---|----------------|
| Jacob Miller | Strengthening Stereolithographic 3D Prints by Imparting Defects                               | Melissa Gordon |
| Sarah Park   | Role of Polycaprolactone Film Surface Properties on L-929 Mouse Fibroblast Cell Proliferation | Ryan Van Horn  |
| Joanna White | pH-Dependent Degradation of Semi-Crystalline Block Copolymer Films                            | Ryan Van Horn  |
| Chenxi Wu    | The study of segregation and release rate of dyes in PEO-b-PCL                                | Ryan Van Horn  |

***Chemistry***

|                |   |                   |
|----------------|---|-------------------|
| Sierra Cole    | Analyzing Hsp40 Primary Sequence Dependence for Chaperone-Prion Interactions                                | Justin Hines      |
| Jason Corcoran | Synthesis and Catalytic Ability of Pyridyl-Substituted NHC Palladium Complexes                              | Chip Nataro       |
| Daisy Grace    | Brown Carbon Formation Potential of the Biacetyl-ammonium Sulfate Reaction System                           | Melissa Galloway  |
| Jessica Luo    | The Catalytic Ability of Two Ionically Tagged NHC Palladium Catalysts On Cross-Coupling Reactions           | Chip Nataro       |
| Sydney Schock  | Analyzing Amino Acid Content of Yeast Prion-Forming Domains and its Effects on Hsp104-mediated Prion Curing | Justin Hines      |
| Xiaoyu Xu      | The Applications of Ferrocene-Containing Palladium Complexes  | Chip Nataro       |
| Bingsong Zeng  | Synthesis of Thophene Dendrimers  | Charlie Nutatitit |

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***Civil & Environmental Engineering***

|                           |   |                 |
|---------------------------|---|-----------------|
| Parastou Bahrami Taghanak | Benchmarking the Flexural Capacity of PennDOT's Reduced Bottom Cover Concrete Bridge Deck Panel Joint Detail  | David Mante     |
| Rebecca Blocker           | Shear Strength and Density Testing Procedures for Foamed Glass Aggregate-Environmental and Cost Estimate of Cantilever Retaining Walls Using Foamed Glass Aggregate | Michael McGuire |
| Yue Wu                    | Optimization of Nutrient Reclamation from Wastewater Assisted with CO <sub>2</sub> -Stripping and Phosphorus Bio-solubilization                                     | Arthur Kney     |

***Computer Science***

|             |  |               |
|-------------|--|---------------|
| Thuc Nhi Le | Recoloring Algorithm to Improve Object Recognition for Color Vision Deficiency | Chun Wai Liew |
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***Economics***

|                   |   |                                     |
|-------------------|---|-------------------------------------|
| Shant Arzoumanian | Energy Wealth, Privatization, and Regime Change in Post-Communist Eurasia   | Olena Ogrokhina<br>Brandon Van Dyck |
| Casey Banta-Ryan  | Measuring the Market Response to Changes in Sustainability: Evidence From the North American Dow Jones Sustainability Index | Steven Swidler                      |
| Agata Benbenek    | Assessing the Effectiveness of World Bank Financial Sector Development Loans  | Julie Smith                         |
| Kamal Bookwala    | The Impact of Product Recommendations on Consumer Choices: Evidence From the Field  | Joaquin Gomez                       |
| Margaret Briggs   | The Effects of Federally Funded After-School Programming on Standardized Test Scores: Evidence From Ohio                    | Matthew Larsen                      |

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| Emily Emick      | The Impact of an EBT System on WIC Coverage and Birth Weight Outcomes            | Matthew Larson  |
| Elene Jalagonia  | Institutional Transformation and Interdependence: The Post-Soviet Experience     | Olena Ogrokhina |
| Liming Lin       | The Chinese Exchange Rate Policy   | Julie Smith     |
| Katrina Ruggiero | The Value of Environmentally Friendly Initiatives                                | W. Mark Crain   |
| Calvin Wright    | Abnormal Trading Volume and Efficiency: Evidence From the Jamaica Stock Exchange | Steven Swidler  |

***English***

|               |  |                      |
|---------------|--|----------------------|
| Marcy Laufer  | Healing: A Chapbook of Poems   | Christopher Phillips |
| Tamara Saxman | Sentimental Authority and the Making of Individuals in 19th-century American Sentimental Fiction | Christopher Phillips |

***Environmental Science***

|                     |   |                    |
|---------------------|---|--------------------|
| William Pfadenhauer | Effects of Artificial Light at Night on Mass, Length and Survival of <i>Lithobates Sylvatica</i> (Wood Frogs) | Megan Rothenberger |
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***Environmental Studies***

|                      |   |                                       |
|----------------------|---|---------------------------------------|
| Courtney Cohen       | Blood over Soil: The Greenwashing of the Third Reich & the Misconceptions Surrounding Eco-Fascism | Christopher Phillips<br>Jeremy Zallen |
| Jennifer Giovaniello | Operationalizing Food Justice: An Organizational Study in Easton, Pennsylvania                    | Benjamin Cohen                        |

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| Sarah Heins | Climate Change and Sustainability in Museums: Questions of Accessibility | Andrea Armstrong<br>Caroline Lee |
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***Film & Media Studies***

|               |            |                |
|---------------|------------|----------------|
| Jordan Werner | Pause/Play | Katherine Groo |
|---------------|------------|----------------|

***Geology & Environmental Geosciences***

|                |  |                      |
|----------------|--|----------------------|
| Isabelle Rein  | Apatite geochemistry across the neovolcanic zones of Iceland: Establishing a baseline and searching for spatial significance | Tamara Carley        |
| Leah Shteynman | Utility of Zircon-Hosted Melt Inclusions for Characterizing Ordovician Explosive Volcanism                                   | Tamara Carley        |
| Amanda Willet  | Gravity Modeling of Subsurface Structures for Carbon Sequestration   | Lawrence Malinconico |

***Government & Law***

|                   |  |                                      |
|-------------------|--|--------------------------------------|
| Princess Adeyinka | Returning Home: The Impact of State-Level Policies on Formerly Incarcerated Women of Color | Helena Silverstein<br>Carlos Tavares |
| Rustin Armknecht  | National and Subnational Variations in Environmental Policymaking in China and India       | Il Hyun Cho                          |
| Emily Boyle       | Explaining the Roberts Court's Position on the Future of State Blaine Amendments           | Eric Ziolkowski<br>John Kincaid      |
| Arielle Dana      | "Coercive Interrogation and the Constitution"  | Bruce Murphy                         |

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| Trevor Goodwin   | The Uses of Online Political Adverstising: An Analaysis of YouTube Advertising in the 2020 Primary | Andrew Clarke    |
| Julia Lee        | The Republican Party: A More Libertarian Future?   | Andrew Clarke    |
| Saeed Malami     | What is education for in the 21st century? A Comparison and Synthesis of Approaches                | Brandon Van Dyck |
| Caroline Mannix  | Social Media and the Recent Rise of Right-Wing Extremism   | Brandon Van Dyck |
| Daniel Markovits | Voting for Democracy   | Brandon Van Dyck |
| Anna Nollan      | Evangelical Voting: Locating Morality in the Gospel or Christian Nationalism?                      | Joshua Miller    |

***History***

|                  |  |                |
|------------------|--|----------------|
| Rachel Bram      | Unsanctioned Slave Rebellions of the Civil War: How Enslaved People Emancipated Themselves and Destroyed Slavery | Jeremy Zallen  |
| Gwendolyn Ellis  | The Spies Are Among Us: German Secret Police in Post-Reunification Film  | Joshua Sanborn |
| Errol Flynn      | La Mezquita Mayor de Granada and Redefining Islamic Memory in Post-Franco Spain                                  | Hafsa Kanjwal  |
| Mackenzie Lawlor | Fractured Irishness: The Influence of the 1916 Easter Rising on Irish Identity                                   | Paul Barclay   |
| Robert Maxwell   | "The Politics of Toasting in Antebellum America"   | Deborah Rosen  |

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| Matthew Schoenfeld | Furnishing America: A Social History of the Philadelphia Cabinetmaking Industry 1780-1830 | Jeremy Zallen |
| Gabrielle Tropp    | Man, Myth, and Legend: El Cid and the Formation of Spanish Nationalism                    | Paul Barclay  |
| Ruhao Wen          | The King's Two Bodies: A Double-Edged Sword for Japanese Emperorship                      | Paul Barclay  |

***International Affairs***

|                  |   |                        |
|------------------|---|------------------------|
| Alex Doe         | The Origins of Nativist Backlash in France, Canada, and the United States                                     | Michael Feola          |
| Claire Grunewald | Facebook: A Globally Transferable Tool for Anti-Mining Movements?   | Hannah Stewart-Gambino |
| Phuong Ly        | International Aid's Impact on Cervical Cancer Screening Programs In South East Asia: A Policy Diffusion Study | Angelika Von Wahl      |

***Mathematics***

|               |   |                              |
|---------------|---|------------------------------|
| Ryan Barnett  | A term structure for SOFR                         | Qin Lu<br>Michael Kelly      |
| Sijia Du      | Probabilistic Packing Problems                    | Evan Fisher                  |
| John Van Ness | Lattice Basis Reduction and the NTRU Cryptosystem | Derek Smith<br>Jonathan Dahl |



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***Mechanical Engineering***

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|-----------------|---|-----------------|
| Clark Addis     | Electroresistive Heating of 3D-Printed Shape Memory Polymer Structures  | Brent Utter     |
| Talia Baddour   | Improved Mechanical Characterization of Agarose Gel   | Joshua Smith    |
| Remziye Erdogan | Modeling Diffusion and other Transport in the Placenta  | Jenn Rossman    |
| Alexander Holme | Effects of Heat Exchanger Pitch on Heat Transfer to an Immersed Coil Heat Exchanger With and Without a Baffle | Julia Nicodemus |
| John Pentaleri  | Quantitative Imaging of Supersonic Combustion Using Iodine Planar Laser-Induced Fluorescence                  | Tobias Rossman  |
| Andrew Schmid   | Shock- and Expansion-Induced Mixing of an Unstable Two-Gas Interface in a Hypersonic Expansion Tube           | Tobias Rossman  |
| Rachel Sloan    | Force Sensing 3D-Printed Composite Structures   | Brent Utter     |

***Music***

|            |   |                               |
|------------|---|-------------------------------|
| Ian Miller | Composing a Nation: Luis Duncker Lavalle and the Role of Classical Music in Constructing National Identity in Post-War Peru | Jorge Torres<br>David Shulman |
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***Neuroscience***

|             |   |            |
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| Sarah Blitz | User-Centered Training of Brain-Computer Interface Robot Navigation | Lisa Gabel |
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| Mia Coutinho        | Mode of Learning affecting Explicit and Implicit Knowledge of an Artificial Token Language   | Luis Schettino       |
| Margaret DenBleyker | The role of CNTNAP2 in Dyslexia and Social Anxiety Disorder: Proposal for an investigation into the genetics of Dyslexia and Social Anxiety Disorder | Lisa Gabel           |
| Kyra Helfrich       | Zebra Finch Personalities in Relation to Pairing Preferences   | Michelle Tomaszycski |
| Sarina Krantzler    | Effects of Early Life Nutritional Stress on Brain Regions Devoted to Social Behavior and Sexual Imprinting in Zebra Finches of Both Sexes            | Michelle Tomaszycski |
| Vincenzo Olivett    | Threat Processing and Implicit Evaluation of Police Officers   | Luis Schettino       |
| Sasha Winston-Khan  | The Role of Serotonin in Zebra Finch Pair Bond Formation   | Michelle Tomaszycski |

**Philosophy**

|                   |   |                |
|-------------------|---|----------------|
| Christopher Mayer | Utilitarianism and Agency: Adjusting Utility for Moral Responsibility   | Owen McLeod    |
| Elias Saric       | On the Relationship Between Metaethical Constructivism and Expressivism | Nathaniel Jezi |

**Physics**

|                   |   |                    |
|-------------------|---|--------------------|
| Zachary Bartholet | Principal Component Analysis Applied to Millisecond Pulsar Profiles   | David Nice         |
| Joseph D'Elia     | A Background on Single-Photon Fluorescence Spectroscopy   | Annemarie Exarhos  |
| Aditi Desai       | Pulsar Timing and the MCMC method   | David Nice         |
| Jordan Gusdorff   | Right Now I Have Raman Spectroscopy for Phase Analysis of Ferroelectric Crystals  | Christopher Hawley |
| Mallory Kane      | Using Multifractal Detrended Fluctuation Analysis (MFDFA) for Pediatric Epileptic Seizure Diagnosis, Differentiation and Prediction | Bradley Antanaitis |

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***Psychology***

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| Marissa Falcone | Vicarious Post-Traumatic Growth in Mental Health Professionals Working With Child Trauma | Susan Wenze       |
| Tyler Hubeny    | A Qualitative Study of the Phenomenology of Emotions Alexithymia                         | Kat Longshore     |
| Chuyin Li       | Intrinsic Motivation in College Students   | Andrew Vinchur    |
| Erin McKenney   | Access to Alternative Communication Methods in Childhood and Adult Wellbeing             | Jennifer Talarico |
| Shanyin Yang    | Age-Related In-Group Bias in Emotional Attribution                                       | Jennifer Talarico |

***Religious Studies***

|             |   |                                 |
|-------------|---|---------------------------------|
| Emily Boyle | "Explaining the Roberts Court's Shift in Establishment Clause Jurisprudence and the Overturning of State Blaine Amendments" | Eric Ziolkowski<br>John Kincaid |
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***Russian & East European Studies***

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|-----------------|---|------------------|
| Theodora Beemer | The Dam Dilemma: Hydroelectric Dam Construction During the Cold War | Lindsay Ceballos |
|-----------------|---|------------------|

***Women's, Gender and Sexuality Studies***

|                     |                          |                 |
|---------------------|--------------------------|-----------------|
| Jennifer Richardson | Greener Trees: A Novella | Megan Fernandes |
|---------------------|--------------------------|-----------------|