

ACADEMIC PROGRESS COMMITTEE
HONORS LIST 2020-2021

Anthropology & Sociology

Lauren Phillips-Jackson	Moral Exclusion and Spatial Justice: Experiences With Food Access and Activism in Racialized Chicago	Monica Salas Landa
Josette Yeboah	Exploring Discrimination Through a Transnational Lens: The Association Between Discrimination and Kidney Health Among African Americans and Afro-Caribbeans	Carlos Tavares

Art

Giacomo Agostini	Modern Crises in the Middle East: Following the Illicit Trade of Art and Artefacts and Its Threat on Cultural Identity	Ida Sinkevic
Hannah Ciancarelli	Sussex Portraits	Karina Skvirsky
Grace Cornell	Deus meus, Deus meus, Ut Quid Dereliquisti Me?	Nestor Gil
Elle Cox	Home	Karina Skvirsky
Margaret DiGrande	Lack of Presence	Ed Kerns
Jane Fergusson	Sand Impressions	Ed Kerns
Richard Ffrench	Composition Book	Karina Skvirsky

Asian Studies

Georgia Salvatore	“Soft Power With Chinese Characteristics”: National Responses to China’s Global Soft Power Strategy	Il Hyun Cho
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Biology

Erica Beatson	Comparing Therapeutically-Relevant Copy Number Profiles in African Americans and European Americans with Clear Cell Renal Cell Carcinoma	Khadijah Mitchell
Julianna Carpanetti	How do Changes in Ambient Temperature Affect House Sparrow (<i>Passer Domesticus</i>) Egg Size, Coloration, and Developmental Success?	Mike Butler
Zhaoyi Ding	Heart Rate Variability Analysis of Post-Stroke Elderly People Using 1D Convolutional Neural Network Model	Eric Ho
Amanda Lauricella	Macrophage Depletion at Early Murine Mammary Carcinoma Sites	Robert Kurt
Kimberly Manalang	Exploration of Co-Toll-Like Receptor Signaling Cascades	Robert Kurt
Nichole Morley	Effects of Habitat Fragmentation by Roads on Soil Salinity & Abundance of Terrestrial Salamanders	Megan Rothenberger
Joelle Rabin-Court	Exploring PDE4 Somatic Copy Number Variations, Gene Expression, and Induced Overexpression in Lung Cancer Health Disparities	Khadijah Mitchell
Olivia Scott	Response of <i>Deinococcus Radiodurans</i> and Desert Crust Isolate <i>Patulibacter Americanus</i> to H ₂ O ₂ Exposure	Laurie Caslake
Savanna Toure	Identifying Clinically-Relevant Population-Specific IsomiRs in African Americans and European Americans with Lung Cancer	Khadijah Mitchell

Chemical & Biomolecular Engineering

Sarah Burkert	Modeling and Synthesizing Polymer Networks for Biomedical and Environmental Applications	Melissa Gordon
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Charles Leroux	The Effects of Alkane Composition and non-Alkane Additives on the Crystallization Properties and Ideality of Petroleum-like Solutions	Michael Senra
Sasha Neefe	Reevaluating Green Solvent Metrics Using End-Of-Life Considerations	Lindsay Soh

Chemistry

Yiru Gu	In Silico Prediction of Potential Small Molecule Inhibitors of the Lin-28/pre-let-7 Interaction in Pancreatic Cancer	Robert Broadrup
Reilly Gwinn	Synthesis of Substituted Furans Catalyzed by [Au ₂ (u-bis(phosphino)ferrocene)][BARF24]	Chip Nataro
Rachel Hayward	Conservation of Prion Propagation by Arabidopsis Thaliana Sis1 Orthologs	Justin Hines
Andrew MacElroy	Comparing Amino Acid Compositions of Q- and N- Rich Prions in Saccharomyces Cerevisiae	Justin Hines
Sarah Miller	Effects of Amino Acid Content on the Requirement of Swa2 on Artificial Prion Propagation	Justin Hines
Philip Weiss	A Computational Study of Theoretical Improvements for Charge Transfer in Organic Linker Molecules for Application to Quantum Dot Solar Cells	Kenneth Haug

Civil & Environmental Engineering

Eric Hunstein	Implementation of Load Displacement Compatibility Design of Column-Supported Embankments	Michael McGuire
Jeraldyn Norman	An Exploratory Analysis of the Effect of COVID-19: Transportation and Essential Workers	Art Kney

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Computer Science

Benjamin Fuller	Fusing LiDAR and Multispectral Data: A Two-Tailed Deep Learning Model for Land-Cover Classification	Chun Wai Liew
Slim Ghodhbane	Multi-Layer and Segmentation-Based Coverage Path Planning for 3D Objects	Ge Xia

Economics

Rabia Demirelli	A Comparative Study of Social Entrepreneurship Education: Does it Work?	Christopher Ruebeck
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Economics/Mathematics

Zixuan Jin	The One-Child Policy and Female Labor Force Participation in China	Matthew Larsen/Jeffrey Liebner
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Electrical and Computer Engineering

Ethan Miller	Hardware Implementation of a Heap-Based Priority Queue	John Nestor
Zhanfan Yu	Application of Convolutional Neural Network in Melanoma Detection	Ismail Jouny

English

Ryan Branch	Dickens' Pursuit of the Modern Good Human: Dickensian Orphans' Resistance to Ideological Interpellation	Mary Armstrong
Daniel Hullihan	Horseshoes: A Novel	Mikael Awake
Katherine McManus	Put It This Way on the Headlines: Beat Writing as Political Protest During the Vietnam War	Steven Belletto
Abigail Sandman	Behind Skin and Scars	Jennifer Gilmore

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Environmental Science

Kathryn Kavanagh	Invasive Asian Shore Crabs and Chinese Mitten Crabs: Current Response, Best Management Practices, and Competition Dynamics with Native Blue Crabs	Megan Rothenberger
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Film & Media Studies

Gabriel Hershewe	The Front Page of the Internet: Examining the Affordances, Algorithms, and Publics of Reddit	Nandini Sikand
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Geology & Environmental Geosciences

Katherine Kim	The Volatile Content in Apatites From the 1875 Askja Eruption	Tamara Carley
Julisan Street	Geochemistry and Mineralogy of the Newcastle Dacite Adakites in Jamaica: Jamaican Crustal Thickness During the Cenozoic As an Analogue for Archean Crust	Tamara Carley
Matthew Tascione	Structural Control on Geophysical Modeling for the Coffman Hill Diabase Intrusion	Lawrence Malinconico

German

Andrew Bachman	The Imagined Communities of Deutsch-Rap: Authenticity and the Representation of National Identity in German Hip-Hop	Dennis Johannssen
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Government & Law

Charlie Brownstein	The Story Behind the Rise of Right-Wing Populism: Hungary and Poland As Case Studies	Katalin Fabian
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Matthew Dalalian	State Fragility and the Prospects of State Building in Peru	Brandon Van Dyck
Luisa Gunn	Renters and Civic Engagement: Evidence from Easton, PA	Andrew Clarke
Carly Jones	On Being Pro-Life and Pro-Death: An Analysis of Texas House Bill 896	Bruce Allen Murphy
Kathleen Kinder	Rising Partisan Polarization in the United States: Its Causes, and Views From the Left and Right	Brandon Van Dyck
Maria Salmeron-Melendez	The Intersectionality Between Social-Emotional Learning Policies, Trauma and the Black-White Achievement Gap	Andrew Clarke
Bridget Wood	Indigenous Activism in Pennsylvania's Contemporary Environmental Policy, From 2000 to Present Day	Katalin Fabian
Mary Zimmerman	Dworkin vs. Scalia: A Justification for the Right to Physician Assisted Suicide in the United States Constitution	Bruce Allen Murphy

History

Julia McSpirit Beckett	Writing for Neutrality: German- and Irish-American Experiences of the First World War as Expressed in the German-Language and Irish-American Press	Joshua Sanborn
Megan Deacon	Through Another's Eyes: Crafting a Global Perspective of the French Revolution Through the Journeys of American and British Travelers	Caroline Sequin
Yuri Guanowsky	Formation of Working-Class Consciousness in the Northeastern Coal Region of Pennsylvania	Jeremy Zallen
Morgan Limmer	Conversations in Imperialism, Womanhood, and Conversion-Gendered Evangelism in the Late Qing Dynasty	Paul Barclay

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Angelique Taveras	Why Busing in Boston Was Successful: The Appeasement of White Supremacy Through School Busing	Jeremy Zallen
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International Affairs

Victoria Puglia	Food Insecurity, Conflict, and Forced Migrations: A Geospatial Examination of Trends Across Sub-Saharan Africa (2011-2018)	Caleb Gallemore
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International Affairs/Russian and East European Studies

Alexis Steffaro	Forging a Russian World: Church, State, and Soft Power Within the Diaspora Under Putin	Joshua Sanborn
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Mathematics

Jane Fergusson	Cellular Automata and Models of Reaction-Diffusion Systems	Clifford Reiter
Katharine Johnston	Completions in Ordered Algebra	Chawne Kimber
Elene Karangozishvili	On a Free Boundary Minimal Surface in Schwarzschild Anti-de Sitter Metric	Justin Corvino
Inaki Minondo	Lost in a Sea of Results in Analytic Number Theory	Chawne Kimber
Zhiqi Zhou	The Mathematics of Branching Processes	Evan Fisher

Mechanical Engineering

Gabrielle Conard	A Step Forward: Investigating Dynamic Stability on a Low-Cost Quadruped Robot	Alexander Brown
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Zev Granowitz	Diffusion Plate Fuel Injection Into Cavity Flame-Holders in Supersonic Cross-Flow	Tobias Rossmann
Sage Herz	Maximizing Stagnation Enthalpy in Hypersonic Expansion Tube Through Ethylene Injection	Tobias Rossmann
Sarah Johnson	Improving Solar Thermal Storage: Laboratory Design and Pitch-to-Diameter Optimization	Julia Nicodemus/Joshua Smith
John Mills	Improving Particle Image Velocimetry Data by Increasing the Dynamic Range of Velocity and Temporal Resolution	Tobias Rossmann
Jillian Wray	Residential Air Conditioning Energy Storage	Amy Van Asselt
Shutian Wu	Reconstructing Subsidiary Vortices in the Hairpin Vortex Autogeneration Using PLIF	Daniel Sabatino

Music

Katherine Rice	A Comparative Conducting Analysis of Morten Lauridsen's "O Magnum Mysterium" for Choir, Wind Ensemble, and String Orchestra	Kirk O'Riordan
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Neuroscience

Alexandra Goler	Affective Predictors of Activism, Radicalism, and Political View in Liberals and Conservatives	Luis Schettino
Matthew Wierzbicki	Acute Seizure's Effects on Associative Memory in D. Melanogaster	Elaine Reynolds

Philosophy

Kaijie Zhang	Imagination or Rationalization: A Philosophical Analysis of Thought Experiments in Physics	Joseph Shieber
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Physics

Xunyao Luo	From Optics to Quantum Information	Annemarie Exarhos
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Policy Studies

Nicholas Davatzes	Forecasting Legislative Outcomes in the Nigerian National Assembly	W. Mark Crain
Caroline Phillips	“Trying Times: Containing America’s Mental Health Epidemic”- A Student-Produced Broadcast in Partnership with PBS-WLVT	W. Mark Crain

Psychology

Krystyna Keller	Separated But Not Apart: Intergenerational Solidarity and Family Interactions Over Video Chat During the COVID-19 Pandemic	Lauren Myers
Sandra Manfreda	The Hidden Cost of Joining a Sorority: The Relationships Among Sorority Affiliation and Women	John Shaw
Molly Selin	Burnout, Empathy, and Self-Esteem in Undergraduate Students	John Shaw

Spanish

Isabelle Frye	The Cycle of Immigration: Latin-American-US Immigration as a Cyclical Phenomenon of Identity Erasure	Adrian Espinoza-Staines
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Theater

Sarah Frankel	Modernity in The Summoning of Everyman: Morality and the Lafayette Experience	Suzanne Westfall
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