### Thursday, 9 May

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>9am</td>
<td>Registration</td>
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<tr>
<td></td>
<td>Room 209</td>
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<td>9am</td>
<td>Volunteer Check-In</td>
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<td>Room 228</td>
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<tr>
<td>10am</td>
<td>1.1 Life and Death</td>
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<td></td>
<td>Death in the Contemporary Society - Towards a New Urban Cemetery</td>
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<td>Isla Xi Han</td>
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<td>Uncovering the DNA Damage Response to Cisplatin</td>
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<td>Rohan Shah</td>
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<td>Understanding the role of Vangl2 in murine lung development</td>
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<td>Sarah Paramore, Danelle Devenport, Celeste Nelson</td>
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<td></td>
<td>Improving Patient-Provider Communication in an Ambulatory OB/GYN Setting</td>
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<td>Chitra Parikh, Tom Colen, Rachel Kasdin, Samantha Einspahr, Destiny Eisenhour, Ebun Olunuga</td>
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<tr>
<td>10am</td>
<td>1.2 Money!</td>
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<td>Room 210</td>
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<td>Making Quantum Lightning Secure</td>
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<td>Bhaskar Roberts</td>
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<td>Exploitation in Global Supply Chains: A Relationship-Egalitarian Approach</td>
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<td>Ryan Born</td>
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<td>10am</td>
<td>Performance 10-Min Talk Session P.1 (Making Waves)</td>
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<td>Unperformed, unstudied, unknown: Antonio Cesti, affect, and creativity in the seventeenth-century cantata</td>
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<td>Kyle Masson</td>
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<td>From Music to &quot;Event&quot;: The Poetics of George Brecht's &quot;Water Yam&quot;</td>
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<td>Timothy Ruszala</td>
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<td>From Stellar Death to Chemical Rebirth</td>
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<td>David Vartanyan, Amberly Simpson</td>
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<td>When Nature Speaks: Readings in Poetic Translation</td>
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<td>Helena Van Brande</td>
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<td>11am</td>
<td>Elevator Pitch I</td>
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<td>Room 206</td>
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<td>“The Guerillas Become the Governors”: How U.S. Solidarity Groups Framed and Reframed the Nicaraguan Revolution</td>
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<td>Abbie Minard</td>
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<td>AquaCerta: low-cost water filtration as a humanitarian good</td>
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<td>Dimitris Ntaras</td>
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<td>Self-Assembly Systems for Sustainability Innovations in Architecture</td>
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<td>Zoe Zeitler</td>
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</tbody>
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**The Effects of Foreign Direct Investment on the European Domestic Economy through Horizontal and Vertical Technology Spillovers**
- Julia Zielczynska

**Supplier Diversity on Princeton Campus**
- Benjamin Fasciano, Jessica Leung, Regina Lankenau
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Name</th>
<th>Room</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11am</td>
<td>2.1 Fiction or Reality?</td>
<td>Room 207</td>
<td>Federica Querin</td>
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<td>Delivering factual science through fiction: case studies from climate science</td>
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<td>Xin Rong Chua</td>
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<td>The Chinese “Madman”: When Don Quixote Goes to China; A Comparative Study of Don Quixote and Lu Xun's A Madman's Diary</td>
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<td>Yangyou Fang</td>
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<td>EyeBeat Revolution: A VR Experience for Music Education</td>
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<td>Ayushi Sinha</td>
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<td>Gender Quotas as Strategy: Exploring the Relationship Among International Perceptions of Democracy, Transnational Influence, and Female Representation</td>
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<td>Paige Hill</td>
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<td>11am</td>
<td>2.2 Lifespan</td>
<td>Room 208</td>
<td>Isabel Hsu</td>
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<td>Genetic and environmental determiners of longevity</td>
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<td>Sagar Setru, Joshua Shaevitz, Sabine Petry</td>
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<td>Reconstituting mitotic chromosome movement in vitro</td>
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<td>Precision in the drosophila fly embryo</td>
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<td>Marianne Bauer</td>
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<td>11am</td>
<td>2.3 Cities</td>
<td>Room 210</td>
<td>Gawoon Shim, Dipak Prasad, Christopher Elkins, John Eaton, Michael Benson</td>
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<td>How would chemicals spread through cities?</td>
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<td>Job Vacancies and Immigration: Evidence from Pre- and Post-Mariel Miami</td>
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<td>Michael Lachanski, Jason Anastasopolous, George Borjas, Gavin Cook</td>
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<td>Two Covers: the Antagonism of a Future Public Library</td>
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<td>Jessica Leung</td>
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<td>Can Vertical Farming feed the World?</td>
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<td>Paul Gauthier</td>
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<td>11am</td>
<td>2.4 Time and Space</td>
<td>Room 329</td>
<td>Coleman Merchant</td>
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<td>Princeton SpaceShot: Design, Construction, Flight, and Iteration of a High Performance Two Stage Sounding Rocket</td>
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<td>BailOut: Increasing student accountability through data visualization</td>
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<td>Tilmann Herchenroder, Sabarish Sainathan, Phillip Yoon, Rei Zhang</td>
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<td>Galaxy Cluster Profiling with Non-Negative Matrix Factorization</td>
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<td>Ryan Golant</td>
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<td>&quot;y'Khaper ha'Yesh al ha'Ayin&quot; - Memory and Urban Identity in Holocaust Survivors' Yizkor Maps</td>
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<td>Rafi Lehmann</td>
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<td>11am</td>
<td>2.5 Highs and Lows</td>
<td>Room 330</td>
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<td>Powered by Ex Ordo, everything you need to run a research conference.</td>
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</tbody>
</table>

Alternatives to Opioids: How might we help patients with pain access safe, affordable, and effective pain management without using opioids?
- Kaylin Xu, Joy Xie, Hadar Halivni, Khadijah Anwar, Vrinda Madan, Shamay Agaron

The Hike: An Documentary on Urban Verticality
- Yunzi Shi

Reducing negative attentional bias in depression with real-time neurofeedback
- Anne Mennen, Megan deBettencourt, Nicholas Turk-Browne, Yvette Sheline, Ken Norman

The Effect of the Opioid Epidemic on Labor Force Participation: A Study in Causality
- Isabel Leigh

11am
- Performance 10-Min Talk Session P.2 (Re-Visioning)
  Theater

What Type of Asian Are You?: Exploring Asian American Identity Through Performance Art
- Nathan Phan

Legally Blonde
- Tamia Goodman, Jasmeene Burton

Underground Battle: A Deconstruction and Reconstruction of Hip-Hop Dance
- Lauren Auyeung

12pm
- Poster Session
  Main Atrium

Structure based N-methyl chloroamide cyclase design using OYE-family enzymes
- Sam Garfinkle

Survey of Trimetallic Catalysts for CO2 Electroreduction
- Gabriella Pereira Feron

Cerebellar guidance of flexible learning and whole-brain activity
- Jessica Verpeut, Thomas Pisano, Ugne Klibaite, Mikhail Kislin, Christina Mati, Talmo Pereira, Alexandra Badura, Joshua Shaevitz, Samuel Wang

Optimizing machining parameters for laser micro-machining with an ultrafast z-scanner
- Xiaohan Du, Kendall Ratter, Craig Arnold

Black Hole Morphology
- Hector Afonso Cruz

Ourselves, in Translation: Exploring the Politics of Feminist Exchange Across Borders
- Katherine Fleming

Properties of Strained Graphene Under a Magnetic Field
- Rohit Dilip

Plant Forward or Plant Upward? A Quality Comparison of Crops Grown in Hydroponic and Soil Farms
- Daniel Rubenstein, Paul Gauthier, Celeste Akiti

Representations and Causal Contributions of Frontal Cortical Regions During Context-Dependent Decision Making
- Vincent Tang, Marino Pagan, Carlos Brody

Understanding the Limitations on Cognitive Control from the Perspective of the Stability-Flexibility Tradeoff
- Susan Liu, Sebastian Musslick, Jonathan Cohen
Towards a New Dataset for Fake News Detection
» Georgy Noarov, Michael Guerzhoy

Curating Queer Utopia through Queer/Trans Asian/Pacific Islander Nightlife
» Stephen Chao

Authorship Attribution Through Spatial Similarity of Word Embeddings
» Maia Hamin

Us vs. Them: Construction of the “Other” in Political Rhetoric
» Nina Wang

Evolution and the Foundations of Morality: A New Meta-Ethical Analysis
» Kevin Zhang

Navigating in neural and perceptual manifolds with closed-loop multi-site electrical microstimulation system
» Sina Tafazoli, Camden MacDowell, Daniel Che, Timothy Buschman

Smart Windows: Light-Responsive Films Capability as Smart Windows on Princeton University Building Energy Consumption
» Rawlison Zhang, Matthew Marquardt

Crystallinity of Alkali-Activated Slag Cured Under Electric Field at Ambient Temperature
» Solmaz Jumakuliyeva, Claire White

Meth-boom Mexico: How American precursor regulations fed industrialized cartel production
» Rodrigo Moretti

Controlling Unmanned Aerial Vehicles under High Wind Speeds Using Nano-Scale Thermal Anemometry Probes
» Whitney Huang, Gayatri Ramesh

Replicating Universe in Laboratory: Investigating How Particles Are Falling to Stars and Black Holes in Princeton Magnetorotational Instability Experiment
» Himawan Winarto

From Calculus to Counting: Solving the Physics of the Atom with Elementary Methods
» Mitchell Bast

Climate Action Plan Emissions Reduction Scenarios for the Town of Princeton
» Clare Martin, Will Atkinson, Eric Larson, Christine Symington, Jessica Chen, Sisi Peng, Anika Sonig, Christopher Lugo, Iris Stone, Jacob Schwartz, David Johnson, Rebecca Elyanow, Logan Stafman

Understanding Piezoelectrochemical Energy Harvesting in Lithium Ion Batteries
» Juliane Preimesberger, SeungYeon Kang, Craig Arnold

Random Walks on Hypergraphs with Edge-Dependent Vertex Weights
» Uthsav Chitra, Benjamin Raphael

“Uh, Okay, You Know”: The Effect of Arbitrator Style on Interpreter-Produced Disfluencies in New York City Small-Claims Courts
» Irma Qavolli

A Novel Method for Simulating Diffracted Light
» Mary Catherine Lorio, Zhihao Xiao, Jonathan Dowling

Constraining Binary Black Hole Merger Probabilities in Globular Clusters
» Jacob Tyles, Johan Samsing
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>Light Field Generated by Coupling Atoms to a Resonant Cavity in the Strong Coupling Regime</td>
<td>Minh-Thi Nguyen</td>
</tr>
<tr>
<td>Dia de la Ciencia: The impact of bilingual public science programs on communities and researchers</td>
<td>Sara Rodriguez, Daniel Steinberg</td>
</tr>
<tr>
<td>Diffusion Dominated Electrochemical Impedance Behaviors in Microstructures</td>
<td>Feng Cai</td>
</tr>
<tr>
<td>An Integrated Human-Nature Systems-based Framework for Coastal Risk Assessment</td>
<td>Muhammad SAJJAD, Ning Lin, Johnny C. L. Chan</td>
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<tr>
<td>Nitrogen and phosphorus recovery from wastewater by using flow-electrode capacitive deionization</td>
<td>Yanhong Bian, Zhiyong (Jason) Ren</td>
</tr>
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<td>High-resolution hydrological modeling and remote sensing for prediction at the decision-making scales</td>
<td>Noemi Vergopolan, Nathaniel Chaney, Ming Pan, Hylke Beck, Eric Wood</td>
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<tr>
<td>A Computational Approach to Understand Alterations in Metabolism in Human Cancers</td>
<td>Antonio Muscarella, Li Chen, Joshua Rabinowitz, Mona Singh</td>
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<tr>
<td>Bookish: A Tool for Large-Scale Textual Analysis of Arbitrary Datasets</td>
<td>Jackson Neus</td>
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<tr>
<td>Organization and Behavior of Concentrated E. Coli in Polymer Environments</td>
<td>Rhea Braun, Daniel Amchin, Sujit Datta</td>
</tr>
<tr>
<td>Hardness of Revenue Approximation</td>
<td>Natalie Collina</td>
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<tr>
<td>Reimagining Shuttered Schools: An Interdisciplinary Look at School Repurposing in Chicago</td>
<td>Rae Perez</td>
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<tr>
<td>The fate of water in subducted hydrous sediments: empirical stability fields of FeOOH and AlOOH up to 20 GPa</td>
<td>Takashi Yoshino, Kyle Duffey, Edward Baker</td>
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<td>Particle Filtration in Viscous Liquids using bubbles</td>
<td>adhitya raghavan</td>
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<td>ReOcean: An Active System for Autonomously Removing Waste from the Oceans</td>
<td>Robert Cohen, Robert Buline, Fred Zheng, Daniel Nosenchuck</td>
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<td>Bridging the Gap: Creating a Liberal to Conservative Language Translator</td>
<td>Ananya Joshi</td>
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<tr>
<td>A NEW AIR-STABLE QUASI-TWO-DIMENSIONL MAGNETIC MATERIAL</td>
<td>Xiaoyu Song</td>
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<td>Perceptions of Generational Mobility Generate Conservative Economic Policy Preferences: Evidence from a Survey Experiment</td>
<td>Kiara Hernandez</td>
</tr>
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<td>Laser polishing using modulated laser light</td>
<td>Wenxuan Zhang, Craig Arnold</td>
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<tr>
<td>Lianas Impact on the Carbon Cycle: Predicting an Equilibrium State of Moist Tropical Forests in Panama</td>
<td>Artemis Eyster</td>
</tr>
<tr>
<td>Detecting Life on Mars</td>
<td>Hemani Kalucha</td>
</tr>
</tbody>
</table>
Characterization of HATS-34b and HATS-46b Using TESS and Gaia

 Emma Louden, Joel Hartman

Races and Faces: Characterizing Romantic Attraction and its Interaction with Race

 Lila Abreu

The Tick(ing) Time Bomb: Temporality and Morality in the Care of Late-Stage Lyme Disease Patients

 Laura Hergenrother

Impacts of livestock management practices on landscape dynamics and wildlife in Laikipia, Kenya

 Joanna Zhang

The Road to Nuclear Fusion as a Viable Power Source: How Cultivating a Culture of Public Participation within the Fusion Community is an Indispensable Factor to Achieving this Potential Goal

 John Adams

“IT IS NOT OUR CONCEPT OF DEMOCRACY WHICH IS NOW ON TRIAL, BUT YOURS”: CHEDDISM AND THE RESILIENCE OF CHEDDI JAGAN’S PEOPLE’S PROGRESSIVE PARTY, 1953–1964

 Bhadrajee Hewage

The Neural Underpinnings of Learning and Behavior During Joint Book-Reading

 Ariella Cohen, Elise Piazza, Uri Hasson, Casey Lew-Williams

Queering Princeton's Archives

 TJ Smith, Stephen Chao

Desktop Particle Detector

 Gage DeZoort, Daniel Marlow

Enhancer Prediction Using STARR Sequencing

 Elisabeth Juechser

Three-dimensional analysis of Earth's first reefs and their role in the construction of animal biodiversity

 Ryan Manzuk, Adam Maloof, Akshay Mehra

Mechanisms contributing to persistently activated cell phenotypes in pulmonary hypertension: roles of chromatin structure, multiple transcription factors, and epigenetic regulators

 Alexandra Wilson, Hui Zhang, Suzette Riddle, Aya Laux, Cheng-Jun Hu, Kurt Stenmark

The Big Bang, Inflation, and the Cosmic Microwave Background

 Camille Liotine, Jo Dunkley

Dynamical Friction from Fuzzy Dark Matter and its Implications for Galactic Dynamics

 Cara Giovanetti

The Personal Vote in Pakistan's 2018 National Election

 Natalya Rahman

On the extended line-emitting nebulae surrounding quasar-host galaxies.

 Jakob Helton

The structure of shock wave in the heliosphere and very local interstellar medium (VLISM)

 Parisa Mostafavi, Gary P. Zank, David J. McComas

Textual Analysis of Daily Princetonian Archives

 Yang Song

Structural Determination of Ubiquitin-like Containing a PHD and RING Finger Domain 1 Protein (UHRF1)

 Winston Lie, Di Yang, Colette Lipp, Martin Cohn
Documenting Antioch: Archives as Data
» Julia Gearhart

The Power of Language: The Wage Gap as a Cultural Construct
» Kristen Ahner

Role of Geometry on Elastic Turbulence on Polymer Flow Through Porous Media
» Audrey Shih

Herb-Drug Interactions in the Treatment of HIV/AIDS: The Importance of Cultural Competence
» Jennie Yang

Examining Political Trustworthiness through Text-Based Measures of Ideology
» Eitan Sapiro-Gheiler

Exploring episodic memory with memory-augmented neural networks
» Kathy Fan, Qihong Lu, Ken Norman

Latest results show urgent need to address child restraint usage in South Africa
» Carson Clay, Sebastian Van As, Kate Hunter, Margie Peden

Investigating how integrin-linked kinase (ILK) and TGF-β1-induced EMT affect cell migration during wound healing
» Niroshan Anandasivam, Siyang Han, Celeste Nelson

Code Intention: Natural Language Processing
» Hari Raval, David Kaeli, Nicolas Agostini

Synthesis and Evaluation of Novel A-Site Ligands for 2D Perovskites for Use in Studying Charge and Energy Transfer in Quantum-Confined Systems
» Abhiram Karuppur

» Binita Gupta

How do shallow-water carbonates record sea level and seawater chemistry?
» Emily Geyman, Adam Maloof

Enabling New Methods with the Merger of Halogen Atom Abstraction and Metallaphotoredox Catalysis
» Tiffany Chen

Investigating the Role of the Nucleus Accumbens in Complex Decision-Making
» Alison Herman

Sound Judgments: Speech-Based Prejudice Against AAVE Speakers and Applications in Legal Contexts
» Grace Grady

Phase change in binary mixture droplets
» Amir Pahlavan, Colin Bain, Howard Stone

A Porcine Model of Human Spinal Cord Injury
» Chitra Kumar, Brian Kwon, Maxwell Boakye, Dena R. Howland, Jay Ethridge, Robert Reed, Johnny Morehouse, Leslie Sherwood

Kernel Based Outlier Detection Methods for IoT Networks
» Adam Kelly

Next News
» Son Do, Audrey Spensley, Grace Masback, Christo Ritter, Ivy Truong
High-Dimensional Sphere Packings
» Zachary Stier

Engineering combinatorial and dynamic decoders using synthetic immediate-early genes
» Pavithran Ravindran, Maxwell Wilson, Jared Toettcher

Zirconium-iridium mixed oxide electrocatalysts for the oxygen evolution reaction
» Edward Zhang, Rachel Selinsky, Xiaofang Yang, Bruce Koel

Serving NYC Public School Alumni After Graduation
» Karen Wu, Ishi Kalyanaraman, Jake Caddeau, Kristin Hauge, Jasmeene Burton

Enabling Large-Scale Tactile Sensing Systems by Minimizing Sensor-Reader Physical Interfaces using Compressed Sensing
» Levent E Aygun, Prakhar Kumar, Zhiwu Zheng, Ting-Sheng Chen, Sigurd Wagner, James C. Sturm, Naveen Verma

Improving Molecular Models of Aqueous Electrolyte Solutions
» Shuwen Yue

Tiger Challenge People as People Project
» Camila Correa, Drey Tengan, Emily Hilliard, Brittany Smith, Joe Collins, Payton Holden

Selection Effects in Dark Energy Measurement: How can we eliminate bias in cosmological inference within a Bayesian probabilistic framework?
» Lucas Makinen

Mercury Showered by Solar Wind
» Liang Wang, Chuanfei Dong, Ammar Hakim, Amitava Bhattacharjee

Giant Space Lasers - The Hunt for High-redshift Circumnuclear Megamasers
» Madelyn Broome

TigerChallenge One Respect: Increasing Respect at Princeton
» Fumika Mizuno, Ainil Norazman, Cynthia Suter

Dimeric Dopant to Improve Electron Transport Layer Conductivity in Polymer-based Organic Light Emitting Diodes
» Hannah Smith, Steven Barlow, Seth Marder, Antoine Kahn

1pm
Elevator Pitch II
Room 206

Quantum Reservoir Computing
» Gerasimos Angelatos, Saeed Khan, Hakan Tureci

Tobias Cohn and his Medical Treatise: The Medicalization of the Wayward Woman in Early Modern Europe
» Rachel Linfield

Failure to Launch: NASA’s Unsuccessful Attempts to Commercialize Space Transportation
» Alex Essig

Lifting Heavy Things: A Women’s Perspective
» Allison Huang

1pm
3.2 Learning
Room 207

Implementing Brazil’s New Education Policy
» Somya Bajaj
### Continued from Thursday, 9 May

**Using Design Thinking to Connect Families of Children with Special Needs to Support Resources**
- Sebastian Hallum Clarke, Eric Guerci, Demi Zhang, Kyle Barnes

**When Too Much Information is Detrimental to Learning**
- Sarah Hutter

**Machine learning in the presence of adversaries**
- Arjun Nitin Bhagoji

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**1pm**

#### 3.3 Flow

**Room 208**

**Modeling Clogging and Erosion in Porous Media**
- Emily de Jong, Navid Bizmark, Sujit Datta

**Construction and design of a microchannel geometry for studying the formation of separation bubbles**
- Mrudhula Baskaran

**How do River Networks Self-Organize from the Centimeter to Kilometer scale?**
- Alec Getraer

**Toward A Floating Urbanism**
- Sophia Zhu

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#### 3.4 Decision-Making

**Room 210**

**Task-Driven Estimation and Control via Information Bottlenecks**
- Vincent Pacelli, Anirudha Majumdar

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#### 3.5 Revolution/Resistance

**Room 329**

**Fascist Mickey: The Reconstruction of Comics During and After the Italian Fascist Regime (1922-1950)**
- Lucas Ramos

**From Quantum Algorithms Towards Correct Quantum Programs**
- Yipeng Huang, Margaret Martonosi

**Growth and movement of Dictyostelium: Opening doors to a new dimension**
- Gabriel Toneatti Vercelli, Fernando Rossine, Thomas Gregor, Corina Tarnita

**The 2016 Zika Epidemic and the Politics of Scientific Legitimacy in Puerto Rico**
- Kenji Cataldo

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#### 3.6 Textures

**Room 330**

**Sewing Machine as Religious Technology**
- Kristine Wright
### Princeton Research Day 2019 - 9 May 2019

#### Continued from Thursday, 9 May

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speakers</th>
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<tbody>
<tr>
<td>1pm</td>
<td>Innovative Probing of Location-Specific Properties for Improved Polymer Nanocomposite Performance</td>
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<td>Katelyn Randazzo, Rodney Priestley</td>
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<td>Enhanced paleoenvironmental reconstructions using three-dimensional imaging of ooids</td>
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<td>Bolton Howes, Akshay Mehra, Adam Maloof</td>
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<td>Storytelling and Homecoming: Costume Design for The Odyssey</td>
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<td>Jianing Zhao</td>
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<td>1pm</td>
<td>Performance 10-Min Talk Session P.3 (Hist(o)ry - onics)</td>
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<td>Laughing Over Tears: British Theatre and Film in the 1940s</td>
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<td>Abigail Spare</td>
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<td>Con tutti gli affetti e l’immaginazione: unheard gems of seventeenth-century Italian keyboard music</td>
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<td>Joyce Chen</td>
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<td>1pm</td>
<td>“In A Spacious Place”: Grappling with Sociocultural Pressure through Poetry, Performance, and the Psalms</td>
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<td>Tyler Ashman</td>
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<tr>
<td>2pm</td>
<td>Discovery of a high-mobility van der Waals antiferromagnet for next-generation electronics</td>
<td>Room 205</td>
<td>Shiming Lei, Jingjing Lin, Yanyu Jia, Mason Gray, Andreas Topp, Gelareh Farahi, Sebastian Klenenz, Ali Yazdani, Kenneth Burch, Sanfeng Wu, Nai Phuan Ong, Leslie Schoop</td>
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<tr>
<td>2pm</td>
<td>Network Intrusion Prevention on Programmable Switches</td>
<td>Room 207</td>
<td>Robert MacDavid, Mengying Pan, Shir Feibish, Jennifer Rexford</td>
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<td>2pm</td>
<td>Sweatshop poet, assimilated professor and German Zionists: interpretations and uses of the poetry of Morris Rosenfeld</td>
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<td>Akiva Jackson</td>
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<td>2pm</td>
<td>Breaking Carbon-Oxygen Bonds using Phosphines and Photoredox Catalysis</td>
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<td>Alyssa Ertel, Jesus Martinez Alvarado, Erin Stache, Andrea Stegner, Abigail Doyle</td>
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<td>2pm</td>
<td>Bio-inspired Photochemistry: Harvesting Light to Power Chemical Reactions</td>
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<td>Hannah Sayre, Gregory Scholes</td>
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<td>2pm</td>
<td>Tiger Challenge - Team SWIFT</td>
<td>Room 206</td>
<td>Ashley Berland, Nebil Ibrahim, Emma Thomas, Amy Li</td>
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<td>2pm</td>
<td>A fire happened - now what? Determining the effect of topographical factors on rate of post-wildfire recovery</td>
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<td>Nimra Nadeem</td>
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<td>2pm</td>
<td>Mineral Precipitation in Fractures: Multiscale Imaging and Geochemical Modeling</td>
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<td>Sassan Hajirezaie, Catherine Peters</td>
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<td>2pm</td>
<td>Cooling without Air Conditioning</td>
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<td>Eric Teitelbaum, Forrest Meggers</td>
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<td>2pm</td>
<td>Network Intrusion Prevention on Programmable Switches</td>
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<td>Robert MacDavid, Mengying Pan, Shir Feibish, Jennifer Rexford</td>
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Continued from Thursday, 9 May

**SHARKS in IoT: Smart Hacks, Attacks and Risks Synthesis in the Internet of Things**
- Tanujay Saha, Najwa Aaraj, Niraj Jha

**Dignity and Debt**
- Andy Zheng, Jason Windawi, Cindy Han, Allen Liu, JT Tao

**Identification and Characterization of Antiviral Compounds Against Hepatitis E Virus**
- Nicholas Archer, Ila Nimgaonkar, Mohammad Shahrad, Qiang Ding, Hahn Kim, Alexander Ploss

2pm  

**4.4 The Seen and Unseen**
Room 208

**3D Surfaces in the Wild**
- Shengyi Qian, David Fan, Noriyuki Kojima, Weifeng Chen, Jia Deng

**Princeton Community for the Mental and Physical Health of Young Adults**
- Jana Sebaali, Olivia Hadley, Deena Mainli, Young Yoo, Hansini Bhasker, Esther Julis

**Prototyping a Swept Confocally-Aligned Planar Excitation (SCAPE) Microscope to Explore Alternative Methods for Imaging Neural Activity**
- Milena Chakraverti-Wuerthwein, Francesco Randi, Andrew Leifer

**The past in 3D: Why three-dimensional morphological analyses matter and what they can teach us about Earth history**
- Akshay Mehra, Bolton Howes, Ryan Manzuk, Adam Maloof

2pm  

**4.5 Stereotype and Bias**
Room 210

2pm  

**4.6 To Boldly Go**
Room 329

**Learning to Explore**
- Abby Van Soest, Elad Hazan, Karan Singh, Sham Kakade

1868-1874: The “Beautiful Years” of Gaston Darboux
- Haina Wang, Barnabé Croizat

**Disequilibrium in a Milky Way-Type Galaxy: A Computational Analysis of Jeans Equations**
- Grace Sommers

**Proxima Centauri b: The Second Season of High-Cadence Radial-Velocity Data**
- Andrew Wu, Fei Dai, Joshua Winn

2pm  

**4.7 Animation and Storytelling**
Room 330

**A Mixed-Initiative Interface for Animating Static Pictures**
- Nora Willett
### Continued from **Thursday, 9 May**

**Consuming Realities, Producing Fiction: Media Mix in Satoshi Kon’s “Perfect Blue”**
- Jacob Williams

**How do Bacteria Move in Three-dimensional Porous Media?**
- Tapomoy Bhattacharjee, Sujit Datta

**What have Fairy Tales Really Taught Us? Using Collocate Data to Reveal Gender Stereotyping**
- Kamron Soldozy

### 2pm  
**Performance 10-Min Talk Session P.4 (Identity)**
*Theater*

**Singing to Myself: Toward a Non-Binary Philosophy of the Voice**
- Eli Berman

**Halfway Home: An Original Play**
- Zara Jayant

**Witch**
- Chase Hommeyer

**Masquerade: Activating Performance toIlluminate Authenticity**
- Allison Spann

### 3pm  
**Mainstage: PRD-Talks and Awards Reception**
*Multipurpose Rooms, Level B*

**Slipping Through the Cracks: Challenges to School Choice for Homeless Students in the NYC Public School System**
- Jasmeene Burton

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**Exploring how internal and external cues modulate courtship song in the fruit fly**
- Rucha Alur

**Waking in the Coffin: Artistic Resurrection of Prisoner Voices and the Revolt of the Living Dead**
- Katja Stroke-Adolphe

**Is it time to make people instead of rooms comfortable?**
- Hongshan Guo

**Mars VR: Reconstructing Interactive 3D Environments for Space Exploration Applications**
- Eric Hayes