

2018 University of California Hellman Fellows

UC Berkeley

Joshua Blumenstock	School of Information	<i>Evaluating Community Cellular Networks: How Does Mobile Connectivity Affect Isolated Communities?</i>
Carl Boettiger	Environmental Science, Policy, and Management	<i>Big Data, Big Uncertainty: Ecological Decision Theory for the 21st Century</i>
Anne Collins	Psychology	<i>Learning value from goals</i>
Danika Cooper	Landscape Architecture and Environmental Planning	<i>Waving a Magic Wand: Contemplating the Future of Water Management in Phoenix, Arizona</i>
William Fithian	Statistics	<i>Interactive Data Analysis and Replicability</i>
Sanjam Garg	Electrical Engineering and Computer Sciences	<i>Towards Cryptography from Minimal Assumptions</i>

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Laura Lammers	Environmental Science, Policy, and Management	<i>Optimizing phosphorus recovery and reuse for agrifood sustainability</i>
Arthur Middleton	Environmental Science, Policy, and Management	<i>Evaluating patterns of puma predation to reduce human-wildlife conflicts in Patagonia</i>
Raluca Ada Popa	Electrical Engineering and Computer Sciences	<i>Enabling collaborative analytics on private data</i>
Avani Sood	Law School	<i>What's So Special About General Verdicts? Experimentally Exploring the Legal and Psychological Consequences of Special Versus General Verdicts in Criminal Law</i>
Mahesh Srinivasan	Psychology	<i>Reasoning about Religious Norms</i>
Hayden Taylor	Mechanical Engineering	<i>Processes for manufacturing 3D structures in very soft polymeric materials</i>

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Dan Weisz Astronomy *Uncovering the Origin of the Elements*

Emily Zazulia Music *Theorizing Difficulty in Late-Medieval Music*

UC Davis

Katherine Eriksson Economics *Mortality and migration in the early 20th century USA: Infants and cities*

Ryan Finnigan Sociology *How effectively do reporting-pay laws limit work schedule variability?*

Seongkyu Lee Mechanical & Aerospace
Engineering *Toward quiet transformative electrical vertical aircraft*

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Alejandro Martinez	Civil & Environmental Eng	<i>Enhanced harvesting of clean renewable geothermal energy enabled by soil treatment</i>
Sarah (Sabbie) Miller	Civil & Environmental Eng	<i>Bio-inspired geometries to advance sustainable plastics</i>
Frances Moore	Environmental Science & Policy	<i>Quantifying the costs of ecosystem damages from climate change for improved climate policy analysis</i>
Crisitna Moya	Anthropology	<i>The origins and spread of ritual</i>
David Olson	Chemistry	<i>Cellular methods for determining halucinogenic potential</i>
Justin Spence	Native American Studies	<i>PE Goddard's unpublished Hupa texts: Translation, analysis, and publication</i>

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Rachel Vannette	Entomology & Nematology	<i>Characterizing the structure and function of polinator microbiomes</i>
Jiayi Young	Design	<i>What does the bot say to the human? Data mapping presidential election social media activity</i>
UC Irvine		
Ana Muñiz	Criminology, Law & Society	<i>Digital Border-Building Through Gang Classification</i> <i>Completion and production of Gendering Reform, Networking Feminism: Women's Rights Activism in Iran and the Diaspora and support for</i> <i>2nd book project on Transnational Feminist Responses to Islamophobia</i>
Catherine Sameh	Gender & Sexuality Studies	
Tingting Nian	Business	<i>Gender Bias in Online Tech World</i>
Jaeho Lee	Mechanical & Aerospace Engineering	<i>Bio-Inspired Emitters for Dynamic Surface Cooling and All-Day Clean Water Generation</i>
Stephen Mahler	Neurobiology & Behavior	<i>Long-Lasting Reward Circuit Changes Caused by Adolescent Exposure to Cannabinoid Drugs</i>

UNIVERSITY
OF
CALIFORNIA

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Nicholas Marantz

Urban Planning & Public Policy

The Political Economy of Apartment Housing in Coastal California

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UCLA

Daniele Bianchi	Atmospheric and Oceanic Sciences	<i>Acoustics Illuminates the California Current Ecosystem</i>
Stephanie Bosch	Comparative Literature	<i>The World in Short: Form, Media, and African Literature</i>
Karida Brown	Sociology/African American Studies	<i>The Origins of Racial Inequality in Education</i>
Molly Fox	Anthropology/Psychiatry and Biobehavioral Sciences	<i>Women's Pregnancy History and Alzheimer's-Related Immunoregulatory Deficiency</i>
Jana Gallus	Management	<i>Feedback and Worker Motivations in Online Labor Marketplaces</i>
Ximin He	Materials Science and Engineering	<i>Enhanced Purified Water Production by Artificial Phototropic Solar Vapor Generator</i>

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Jocelyn Ho	Music	<i>Women's Labor</i>
Jungseock Joo	Communication	<i>Fake News and Misinformation: Media Credibility and News Believability</i>
Aliza Luft	Sociology	<i>Sacred Treason: How French Bishops Defected from Vichy to Save Jews during the Holocaust</i>
Vadim Shneyder	Slavic, East European & Eurasian Languages and Cultures	<i>Russia's Capitalist Realism: Historical Change and Narrative Form in Dostoevsky, Tolstoy, and Chekhov</i>
Ellen Sletten	Chemistry and Biochemistry	<i>A General Carrier for Biotherapeutics</i>
Courtney Thomas	Community Health Sciences	<i>The Racial Self-Awareness Framework of Race-Based Stress, Coping, and Health: A New Approach to Evaluate the Biopsychosocial Pathways to Health among African Americans</i>

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Felipe Zapata	Ecology and Evolutionary Biology	<i>Studying the Speciation Continuum: Testing Hypotheses about the Origin and Evolution of Species</i>
UC Merced		
Anand Subramaniam	Engineering	<i>Deciphering the mechanism of formation of vesicles on cellulose paper and engineering artificial red blood cells</i>
Benjamin Stokes	Chemical Sciences	<i>Sustainable Methods to Construct Pharmaceutically Relevant Congested C-C Bonds</i>
Justin Cook	Economics	<i>Mapping and Digitizing Historic Civilization Borders</i>
Stephen Wooding	Public Health	<i>Genetics and domestication of cassava (<i>Manihot esculenta</i>) a key Amazonian crop</i>

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UC Riverside

Jiasi Chen	Computer Science & Engineering	<i>Deep learning for augmented reality on mobile devices</i>
Jody Benjamin	History	<i>The Texture of Change: Cloth, Commerce and History in Western Africa, 1700-1850</i>
Laura Sales	Physics And Astronomy	<i>Diffuse Stellar Halos as Cosmological Time Machines</i>
Liz Przybylski	Music	<i>A New Song: Musical Performance as Aesthetic Action</i>
Quinn Mcfrederick	Entomology	<i>Pollinator Protection via the study of Symbiosis</i>
Sara Becker	Anthropology	<i>Motion Capture Computer Modelling Ancient Labor Practices</i>

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William Dunlop Psychology *Mapping the Personality of Young Adult Moral Exemplars*

UC San Diego

Patty Ahn Communication *Black/Korea*

Erik Carlson Music *Webern Variations recording project*

Erica Cho Visual Arts *Beautiful Stories (short narrative film series)*

Sergey Kryazhimskiy Ecology/Behavior & Evolution *Predicting Adaptive Evolution in a Microbe*

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Arun Kumar	Cse	<i>A Declarative, High-Throughput, and Reproducible Model Selection Framework for Deep Neural Networks</i>
Johathan Novak	Mathematics	<i>New Mathematical Methods for the Analysis of Complex Systems</i>
Jeremie Palacci	Physics	<i>Tunable Structural Pigments for Smart Fabrics using Non-Equilibrium Interactions</i>
Lauren Prather	Global Policy And Strategy	<i>From Monitoring to Meddling: How Foreign Actors Shape Local Trust in Elections</i>
Stephanie Richards	Music	<i>Scratch & Sniff: The Stephanie Richards Quartet</i>
Caren Walker	Psychology	<i>Diversity in Learning Contexts and the Emergence of Abstract Reasoning</i>

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Brian Zid	Chem/Biochem	<i>The Role of RNA/Protein Mislocalization During Aging</i>
UC Santa Barbara		
Elizabeth Chrastil	Geology	<i>Individual differences in navigation ability as an early marker for mental disorders</i>
Erika Eliason Parsons	Ecology, Evolution, and Marine Biology	<i>Can diet mediate environmental tolerance limits?</i>
Matto Mildenberger	Political Science	<i>Prospects for climate risk mitigation in a post-Paris world</i>
David Lawson	Anthropology	<i>Understanding Men's Incentives for Women's Empowerment: Testing predictions from sexual conflict theory in Tanzania</i>

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Lal Zimman	Linguistics	<i>The Language of Latinx, Chicanx & Indigenous Trans Identities in México & California</i>
Joseph Balnkholm	Religion	<i>"Purely Secular: Organized Nonbelievers and the Negated Tradition"</i>