

2019 University of California Hellman Fellows

UC Berkeley

David Bamman	School of Information	<i>Representation Learning for the Discovery of Musical Influence</i>
Anna Livia Brand	Landscape Architecture and Environmental Planning	<i>Claiborne on the Verge: The Black Mecca in 21st Century America</i>
Courtney Dressing	Astronomy	<i>Characterizing Planetary Systems Orbiting Nearby Stars</i>
Rebecca Herman	History	<i>Antarctica, Latin America and the Global South</i>
Asma Kazmi	Art Practice	<i>Beyond the Seas Blue</i>
Britt Koskella	Integrative Biology	<i>The Impact of Agriculture on Microbiome-mediated Protection Against Pathogens</i>
David Limmer	Chemistry	<i>Path Integral Molecular Dynamics Simulations of Hybrid Halide Perovskites</i>
Jonas Meckling	Environmental Science, Policy, and Management	<i>The Politics of Innovation: The Durability and Growth of Low-carbon RD&amp;D Policy</i>
Rikky Muller	Electrical Engineering and Computer Sciences	<i>Networks of Neural Dust</i>

**2018-19 University of California Hellman Fellows**

Ren Ng	Electrical Engineering and Computer Sciences	<i>Oz Vision: New Principles for Color Display, and An Experimental Platform for Neuroscience</i>
Jason Okonofua	Psychology Department	<i>Empathic Discipline &amp; Respect in K-12 Schooling</i>
Caitlin Rosenthal	History	<i>The Business of Business Education</i>
Simon Schleicher	Architecture	<i>Robotic Fabrication and Construction in Architecture</i>
Daniel Stolper	Earth and Planetary Science	<i>The Past as the Key to Our Warm Future: Using the Rock Record to Predict Climate Change</i>
Dmitry Taubinsky	Economics	<i>The Behavioral Economics of State-Run Lotteries</i>
<b>UC Davis</b>		
Daniel Ewon Choe	Human Ecology	<i>Stress, Self-regulation, and Resilience in Low-income Mothers and Toddlers</i>
Yanhong Liu	Animal Science	<i>Enhancing Sustainable Food-Producing Animal Productivity and Health by Feed-Based Technologies</i>

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Barbara Blanco-Ulate	Plant Sciences	<i>Characterizing the Epigenetics of Fruit Susceptibility to Fungal Decay</i>
Jonathan Herman	Civil and Environmental Engineering	<i>Adapting Reservoir Control Rules Under Climate Change</i>
Veronica L. Morales	Civil and Environmental Engineering	<i>Pore-Structural Features of Aquifers That Control Engineered Nanoparticle Spreading in Groundwater</i>
Santiago Barreda-Castanon	Linguistics	<i>Real-Time Visual Feedback for Speech Research and Teaching</i>
Timothy N. Hyde	Art Studio	<i>A Microclimate of One: Models for the Near Future</i>
Patrick LeMieux	Cinema and Digital Media	<i>Money Games: Precarious Play and Risky Business in the Post-2008 Economy</i>
Thomas Maiorana	Design	<i>Playing with Systems: Tactile Games as a way to Explore Systematic Challenges</i>
Graham McDougal	Art and Art History	<i>The Work of Art Designed for Technological Reproducibility</i>
Caitlin Patler	Sociology	<i>The DACA Longitudinal Study (DLS)</i>
Andrew Wetzel	Physics	<i>Using Stars as Gravitational Antennae to Measure Dark Matter</i>

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**UC Irvine**

Qomi Mohammad Abdolhosseinin	Civil & Environmental Engineering	<i>Resolving CO<sub>2</sub>-Rock-Brine Interfacial Reactions to Reduce Uncertainty in Geological Carbon Sequestration Models</i>
Maura Allaire	Urban Planning and Public Policy	<i>Reducing Disparity in Disaster Recovery by Modeling Social Vulnerabilities</i>
Jade Jenkins	Education	<i>The Impacts of State Early Childhood Policies on Children with Disabilities</i>
Scott Atwood	Developmental & Cell Biology	<i>Immune System Suppression of Tumor Growth</i>
Samantha Vortherms	Political Science	<i>Economic Development Strategies and Local Citizenship in China</i>

**UCLA**

Adhikari Avishek	Psychology	<i>Neural Control of Panic-Related Behaviors</i>
Juliann Anesi	Gender Studies	<i>Extending Tautua: Disability Advocacy, Education, and Service in Samoa, 1970-1980</i>

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Michela Giorcelli	Economics	<i>Management Productivity and Firm Performance</i>
Martin Hackmann	Economics	<i>Provider Incentives and Overspending in Long Term Care</i>
Lihua Jin	Mechanical and Aerospace Engineering	<i>Lightweight Reusable Energy-Absorbing Metamaterials</i>
Jonathan Kao	Electrical and Computer Engineering	<i>Restoring Communication: Brain-Computer Interfaces Augmented by Artificial Intelligence</i>
Leyla Karimli	Social Welfare	<i>Child Deprivation amidst the Resource Curse: Longitudinal Analyses of Multidimensional Child Poverty in Kyrgyz Republic</i>
Kelly Kay	Geography	<i>Timberland Transformations: Finance Capital, Community Change, and the Rise of the Real Estate Investment Trust</i>
Zeynep Korkman	Gender Studies	<i>Post-secular Futures: Gender, Labor, and Divination in Turkey</i>
Aaron Meyer	Bioengineering	<i>Engineering Anti-Tumor Antibody Combinations for more Effective and Less Toxic Therapies</i>
Akihiro Nishi	Epidemiology	<i>Detecting Gender Bias in Citation Social Networks</i>
Shaina Potts	Geography	<i>Law as Geopolitics: National Territory, Economic Sovereignty and US Courts</i>

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Christine Samuel-Nakamura	Nursing	<i>Healthcare Accessibility in American Indian/Alaskan Native Communities in Los Angeles County</i>
Jennifer Silvers	Psychology	<i>Impacts of Early Life Stress on Inflammatory Signaling and Prefrontal Development</i>
Latoya Small	Social Welfare	<i>HIV Disclosure and Social Support among Black and Latina Women in Urban Los Angeles</i>
Daniel Snelson	English	<i>The Little Database: A Poetics of Media Formats</i>
Yeonsu Song	Nursing	<i>Sleep Apnea and Symptoms of Sleep Problems Among Alzheimer's Disease Patients</i>
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>

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Ximin He	Materials Science and Engineering	<i>Enhanced Purified Water Production by Artificial Phototropic Solar Vapor Generator</i>
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> <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>
Courtney Thomas	Community Health Sciences	
Felipe Zapata	Ecology and Evolutionary Biology	<i>Studying the Speciation Continuum: Testing Hypotheses about the Origin and Evolution of Species</i>

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**UC Merced**

Anna E. Beaudin	Molecular and Cell Biology	<i>Maternal infection during pregnancy programs lifelong immunity from hematopoietic stem cells</i>
Chih-Wen Ni	Bioengineering	<i>Development of a Virus-free Method for High Efficient and Site-Specific Gene Delivery</i>
Alexander M. Petersen	Management of Complex Systems	<i>Measuring Combinatorial Innovation using MeSH keyword combinations</i>
Liang Shi	Chemistry and Chemical Biology	<i>Understanding the Interfaces in Photovoltaic Materials</i>
Paul E. Smaldino	Cognitive and Information Sciences	<i>The Evolution of Identity: The Roles of Culture and Context</i>
Ma Vang	History & Critical Race and Ethnic Studies	<i>Refugee Care: Stories to Bridge Community and Institutions</i>



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### UC Riverside

Kalina Michalska	Psychology	<i>Do Anxious Children See the World Differently? Dissociating Neural Representations of Learned Threat in Pediatric Anxiety</i>
Mark Minch	English	<i>Indigenous Inhumanities: California Indian Revitalizations and Postapocalyptic Research</i>
Philipp Nicolas Lehmann	History	<i>Data Migration: Global Climates Between Africa and Europe</i>
Robert Edward Jinkerson	Chemical And Environmental Engineering	<i>Using Algal Functional Genomics to Shed Light on Plant Gene Function and Increase Lipid Production in Cotton</i>
Victoria Reyes	Sociology	<i>Reputation: How Authors and Audiences Racialize and Gender Place</i>
Ying-Hsuan Lin	Environmental Sciences	<i>Formation and Impacts of Atmospheric Brown Carbon</i>
Yongtao Cui	Physics And Astronomy	<i>Investigation of Topological States in Novel Two-Dimensional Quantum Materials</i>
Ademide Adelusi-Adeluyi	History	<i>Mapping Against Empire</i>

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Alexandra Le Blanc	History Of Art	<i>Concrete and Steel: Artists in Industrial Brazil</i>
Cheng-Hao (Steven) Liao	Political Science	<i>The Political Consequences of Foreign Real Estate Investment in the United States</i>
Martin Riccomagno	Molecular, Cell & Systems Bio	<i>Developmental Refinement of Neural Circuits Essential for Cognition</i>
Michael Mulligan	Physics And Astronomy	<i>Duality and Metallic Criticality in Two Spatial Dimensions</i>
Zhenyu (Arthur) Jia	Botany And Plant Sciences	<i>Determination of Chromosome-lengthy Haplotypes Using Single Gametes and Identification of Haplotype-Phenotype Associations in Citrus</i>
Zhijia Zhao	Computer Science & Engineering	<i>Grammar-Sensitive Parallel Processing of Semi-Structured Data</i>

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### UC San Diego

Matthew Daugherty	Molecular Biology	<i>Finding the pressure points: Evolution-guided discovery of novel host-pathogen conflicts</i>
Sara Hankins	Music	<i>Black Musics, Afrodiasporic Cultures, and the Israeli Imagination</i>
Elena Koslover	Physics	<i>Transport in an Active Network: Protein Sorting in the Endoplasmic Reticulum</i>
Nicole Miller	Visual Arts	<i>Laser Fountain</i>
Ndapandula Nakashole	Computer Science And Engineering	<i>Generalizing Neural Representations of Language</i>
Lara Rangel	Cognitive Science	<i>Conducting a neural orchestra</i>
Cory Root	Neurobiology	<i>Cell type identification in the innate olfactory neural circuit</i>
Alina Schimpf	Chemistry And Biochemistry	<i>Tunable metal oxide materials via assembly of molecular clusters</i>
Vanessa Stalling	Theatre & Dance	<i>Tiny Beautiful Things</i>

**2018-19 University of California Hellman Fellows**

Saiba Varma      Anthropology

*Medical Neutrality and Disrupted Ethics in Kashmir*

Kathryn Walkiewicz      Literature

*Un-tied States: Nineteenth-Century Narratives of Indigeneity and Territory*

Pinar Yoldas      Visual Arts

*Genetically Modified Generation*

Tianyi Zheng      Mathematics

*Random Walks and Large Scale Geometry of Groups*

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**UC Santa Barbara**

David Lawson	Anthropology	<i>Understanding Men's Incentives for Women's Empowerment: Testing predictions from sexual conflict theory in Tanzania</i>
Erika Eliason Parsons	Ecology, Evolution, and Marine Biology	<i>Can diet mediate environmental tolerance limits?</i>
Matto Mildemberger	Political Science	<i>Prospects for climate risk mitigation in a post-Paris world</i>
Joseph Blankholm	Religion	<i>"Purely Secular: Organized Nonbelievers and the Negated Tradition"</i>
Elizabeth Chrastil	Geology	<i>Individual differences in navigation ability as an early marker for mental disorders</i>
Lal Zimman	Linguistics	<i>The Language of Latinx, Chicanx &amp; Indigenous Trans Identities in México &amp; California</i>

**UC Santa Cruz**

Karolina Karlic	Art Dept.	<i>Rubberlands: a transmedia art work which visualizes the ways rubber manufacturing is socially, ecologically, and systemically formed</i>
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Nidhi Mahajan	Anthropology	<i>Contesting Visions of City and Nation: Land, and Sovereignty in Coastal Kenya</i>
Adriana Manago	Psychology	<i>Social Media, Gender, and Sexual Identity Development in Adolescence</i>
Sara Niedzwiecki	Politics	<i>Immigrants' Access to Social Protection in Latin America</i>
Savannah Shange	Anthropology	<i>Milked: Poverty, Race and the Politics of Breastfeeding</i>
Amanda Smith	Literature	<i>Mapping the Amazon: Literary Geographies after the Rubber Boom</i>
Jerry Zee	Anthropology	<i>Algorithmic Necrosis: Machine Learning and Suicide Watch in China and Silicon Valley</i>
Susan Carpenter	Molecular, Cell & Developmental Biology	<i>Carpenter Lab Research Proposal</i>
Sergey Syzranov	Physics	<i>Conductors insensitive to disorder: insights from high dimensions</i>
Yu Zhang	Electrical and Computer Engineering	<i>Modernizing Power System Planning and Operation to Improve Grid Resilience Against Hazardous Events</i>