

2017 University of California Hellman Fellows

UC Berkeley

David Anthoff	Energy and Resource Group	<i>Social Cost of Carbon Estimation for Climate Policy</i>
Mathijs De Vaan	Business	<i>The social structure of the opioid epidemic</i>
Iryna Dronova	Landscape Architecture & Environmental Planning	<i>Urban resilience to intensifying heat under different climatic and socioeconomic contexts</i>
Ellen Evers	Business	<i>Understanding collecting</i>
Hernan Garcia	Molecular & Cell Biology	<i>The Dynamical Embryo: Technology for a Movie-Based View of Developmental Biology</i>

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Stephan Lammel	Molecular & Cell Biology	<i>An ethological approach towards understanding the effects of chronic stress in the brain</i>
Anneka Lenssen	History of Art	<i>Being Mobilized: The Arts of Modernist Enlivening in Syria and the Arab East, 1930-1967</i>
Aila Matanock	Political Science	<i>Invited Intervention: A Mechanism for Rule of Law in Weak States</i>
Baoxia Mi	Civil and Environmental Engineering	<i>Artificial Evapotranspiration for Seawater Desalination</i>
James Olzmann	Nutritional Science & Toxicology	<i>Cellular mechanisms to regulate fuel storage and mobilization</i>
James Sallee	Agricultural and Resource Economics	<i>Heterogeneity, Equity, and Energy Policy</i>

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Elena Schneider	History	<i>The Occupation of Havana: War, Trade, and Slavery in the Eighteenth-century Atlantic World</i>
Rachel Stern	Law	<i>Judicial Transparency in China</i>
Matthew Traxler	Plant and Microbial Biology	<i>Mining Unexplored Microbiomes for Antibiotics Discovery using Mass Spectral Imaging</i>

UC Davis

Ameer Taha	Food Science & Tech	<i>A new lipid signaling pathway that facilitates brain repair</i>
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Marcela Cuellar	Education	<i>Examining the baccalaureate origins of Latina/o doctorate recipients and their pathway into the professoriate</i>
Alexander LeBaron Forrest	Civil & Env. Eng	<i>Epishelf Lakes: A key to understanding ice shelf collapse?</i>
Cindy Rubio Gonzalez	Computer Science	<i>A large-scale study of bugs in numerical software</i>
Yong Jae Lee	Computer Science	<i>Automated decoding of pain in the horse</i>
Jacinda Townsend	English	<i>Kif: a Novel</i>
Tudor Dimofte	Mathematics	<i>Vortices and geometric representation theory</i>

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Davide Donadio	Chemistry	<i>Molecular characterization of ice surfaces as catalyst of ozone depletion reactions</i>
Adam Jacob	Mathematics	<i>The Yang-Mills equations and geometry</i>
Christopher Hare & Adrienne Hosek (Co- applicants)	Political Science	<i>Bridging the pond: measuring policy preferences in western democracies</i>
Co-applicants		
Jeffrey Kahn	Anthropology	<i>Geographic information systems/network analysis methods training</i>
David McCourt	Sociology	<i>American Hegemony and the rise of China: 1945 to the present</i>
Christina Rulli	Philosophy	<i>Moral options, motives, and complicity</i>

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Georgia Zellou	Linguistics	<i>Tracing speaker-specific phonetic variation during spoken word comprehension</i>
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UC Irvine

Michelle Digman	Biomedical Engineering	<i>Non-invasive imaging methods for predicting embryos with the best developmental potential</i>
Hosun Kang	Education	<i>Promoting complex thinking for under-represented youths in science classrooms by improving a local STEM instruction system</i>
Mo Li	Civil & Environmental Engineering	<i>Geopolymers with Repeatable Self-Healing Functionality for Sustainable and Resilient Infrastructure</i>
Sabrina Strings	Sociology	<i>Thin, White, and Saved: Fat Stigma and the Fear of the Big Black Body</i>

UNIVERSITY
OF
CALIFORNIA

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Emily Thuma	Gender and Sexuality Studies	<i>"No More Cages": Gendered Violence, Feminist Mobilization, and the U.S. Carceral State"</i>
Zeba Wunderlich	Developmental & Cell Biology	<i>Translating noisy signals into predictable developmental patterning</i>

UCLA

Tiffany Brannon	Psychology	<i>Intersecting Ladders: Rank and Resources Shape Selves and Inequality Across Social Class and Racial Lines</i>
Genevieve Carpio	Chicana/o Studies	<i>Collisions at the Crossroads: Contesting Race and Mobility in the Making of California</i>

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Beth Colgan	Law	<i>Delinquency Debt</i>
Jennie Grammer	Education	<i>Measuring the Attentional Brain Processes in the Classroom</i>
Kristy Guevara-Flanagan	Film, Television & Digital Media	<i>Body Doubles</i>
Kevan Harris	Sociology	<i>Who Owns Iran? Analyzing the Commanding Economic Heights of the Islamic Republic</i>
Georgia Kernell	Communication	<i>Inside Parties</i>
Corrina Moucheraud	Health Policy & Management	<i>Reducing Cervical Cancer Among Women in Malawi</i>

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Smadar Naoz	Physics & Astronomy	<i>Galactic Nuclei as Laboratories for Fundamental Physics - Gravitational Wave Emission in Galactic Nuclei</i>
Sylvan Oswald	Theater	<i>Trainersor, The Brutal Unpleasant Atmosphere of This Most Disagreeable Season/ High Winds</i>
Gerardo Ramirez	Psychology/Education	<i>Unconscious Problem Solving as a Method for Improving Mathematics Creativity</i>
Sriram Sankararaman	Computer Science/Human Genetics	<i>New Statistical Models for Evolutionary Inference Informed by Ancient DNA</i>
Stephanie Seidlits	Bioengineering	<i>Developing Personalized Medicine for Brain Cancer: Biomaterial Microarrays for High-Throughput Screening of Treatments to Guide Patient-Tailored Therapeutic Strategies</i>
Marike Splint	Theater	<i>ON THE OTHER SIDE</i>

2017 University of California Hellman Fellows

UC Merced

Abel Chuang	Mechanical Engineering	<i>Multiscale Investigation of Interactive Gas, Liquid, and Heat Transport to Enhance Electrochemical Reaction</i>
Hrant Hratchian	Chemistry	<i>Exploring the Structure and Chemistry of Metal Oxide Clusters</i>
Nicola Lercari	World Heritage	<i>Digital Maya Heritage: A new approach to digital heritage documentation and dissemination in under-documented areas of Southern Mexico</i>
Bin Liu	Physics	<i>A multiscale study of bacterial adhesion under structured stimuli</i>
Mark Siström	Biology and Environmental Systems	<i>The evolution and transmission of antibiotic resistance genes in the Central Valley.</i>

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Dustin Kleckner	Physics	<i>Self-Assembly of Optically Bound Colloidal Materials</i>
Rowena Gray	Economics	<i>Immigration, Crime and city Politics: Lessons from U.S. Urban History</i>
Emily Ritter	Political Science	<i>The life cycle of international institutions</i>
Kirk Jensen	Molecular and Cell Biology	<i>Why vaccines fail</i>

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UC Riverside

Crystal Baik	Ethnic Studies	<i>Demilitarized Horizons: Korean Diasporic Aesthetics & the Decolonial Present</i>
Elizabeth Davis	Psychology	<i>Supporting Healthy Emotion Regulation Development: A Longitudinal Investigation of Children's Coping with Stress and Negative Emotion</i>
Fedor (Ted) Karginov	Cell Biology And Neuroscience	<i>Combinatorial Control of Gene Expression by MicroRNAs and RBPs</i>
Hai-Bo Yu	Physics And Astronomy	<i>Lighting up the Dark Sector</i>
Haizhou Liu	Chemical And Environmental Engineering	<i>Development of Efficient Chloramine-based Photochemical Advanced Oxidation Processes for Potable Water Reuse</i>

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Jade Sasser	Gender & Sexuality Studies	<i>Energy, Women's Empowerment, and Cookstoves in Madagascar</i>
Jose Reynoso	Dance	<i>Dance and Politics in the Construction of Post-Revolutionary Mexican Modernity, 1919-1952</i>
Megan Asaka	History	<i>Unsettled City: Migration, Race, and the Making of Seattle's Urban Landscape</i>
W. Hill Harman	Chemistry	<i>Molecular Analogues of Boron-Doped Graphene for Renewable Fuels Catalysis</i>

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UC San Diego

Julie Burelle	Theatre	<i>Encountering First Nations Theatre in Quebec</i>
Natasha Diels	Music	<i>Opera: Zuzu Marie, The Crane Who Wanted To Dance</i>
David Fenning	Nanoengineering	<i>Understanding and Controlling Nanoscale Defects to Stabilize Next-Generation Solar Cells</i>
Alisa Huffaker	Cell & Developmental Biology	<i>Characterization of novel transcriptional regulators of plant innate immunity</i>
Quinn Konopacky	Physics	<i>Star Formation in 3-D: Dynamics of the Orion Nebula Cluster</i>

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Simeon Man	History	<i>Soldiering through Empire: Race and the Making of the Decolonizing Pacific</i>
Justin Meyer	Ecology, Behavior & Evolution	<i>Unlocking the key to evolvability for predicating viral emergence</i>
Daniel Navon	Sociology	<i>Making sense of mutations</i>
Amy Non	Anthropology	<i>Are children of Hispanic immigrants aging faster than expected? An epigenetic analysis of stress and aging</i>
Danielle Raudenbush	Sociology	<i>Health Care Strategies Among Low-income African Americans and Mexican Immigrants</i>
Michael Yip	Electrical and Computer Engineering	<i>Sewing thread as a transformative actuator for realizing muscle-powered machines</i>

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UCSF

Jalayne Arias	Neurology	<i>Financial, Legal and Social Decision-Making Post Early Age-of-Onset Alzheimer's diagnosis</i>
Christine Ferrara	Pediatric Endocrinology	<i>Exploring the Reverse Cholesterol Pathway Along the Spectrum of Type 1 Diabetes Stages</i>
Jason Flatt	Institute for Health and Aging	<i>The Epidemiology of Alzheimer's Disease and Related Dementias in Sexual and Gender Minority Older Adults</i>
Irfan Kathiriya	Anesthesia and Perioperative Care	<i>Developmental Origins of Congenital Heart Disease</i>
Carina Marquez	Medicine	<i>Child and Adolescent Tuberculosis Infection in Schools in Rural Uganda</i>

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Aimee Medeiros	Anthropology, History and Social Medicine	<i>Too Young to Die: The Rise of the Children's Hospital in the U.S.</i>
Claudia Mooney	Family and Community Medicine	<i>Teaching Clinical Transformation: A mixed methods study of resident education in high-performancing primary care and quality improvement</i>
Aoife O'Donovan	Psychiatry	<i>Resolving Psychological Stress (RePS): Examining the efficacy of "app"-based attention bias modification training as a treatment for posttraumatic stre</i>
Andrea Tenner	Emergency Medicine	<i>Adult Sepsis in Tanzania: A Prospective Cohort Study to Identify Risk Factors and Barriers to Care</i>

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UCSB

Yon Visell	Media Arts and Technology/ Electrical and Computer Engineering	<i>Making Tactile Waves: Somatosensation as Elastic Wave Propagation</i>
Huijia (Rachel) Lin	Communications	<i>Cryptographically Enforced Partial Access to Private Data</i>
Michael Goard	Molecular, Cellular and Developmental Biology/Psychological and Brain Sciences	<i>Optical investigation of cortical circuits underlying learning in virtual environments</i>
Michelle Brown	Anthropology	<i>A monkey's-eye view: Testing a novel framework for predicting feeding competition in primates</i>
Martha Sprigge	Music	<i>Socialist Laments: Musical Mourning in the German Democratic Republic</i>

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Rachael King	English	<i>Before and After: Landscape Gardening and the Visualization of Improvement</i>
Alenda Chang	Film	<i>Playing Nature: The Ecology of Video Games</i>
Zakiya Luna	Social Sciences	<i>Mobilizing Millions: Engendering Protest Across the Globe</i>

UC Santa Cruz

James Ackman	MCD Biology	<i>Functional Dynamics of Cerebral Lateralization in the Developing Brain</i>
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Terrence Blackburn	Earth and Planetary Sciences	<i>U-series Comminution Dating of Fine-Particle Production in Glaciers, Rivers, Faults and Extraterrestrial Surfaces</i>
Rebecca Covarrubias	Psychology	<i>Acknowledging the Cultural Strengths of First-Generation Students: Longitudinal Explorations of Familial Interdependence and Hard Independence</i>
Renée Fox	Literature	<i>Necromantic Victorians: Reanimation and the Historical Imagination in British and Irish Literature</i>
Alma Heckman	History & Jewish Studies	<i>Radical Roads Not Taken: Moroccan Jewish Trajectories, 1925-1975</i>
Dongwook Lee	Applied Mathematics & Statistics	<i>New High-Order Schemes for Computational Fluid Dynamics using Gaussian Processes</i>
Amy Mihyang Ginther	Theater Arts	<i>No Danger of Winning</i>

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Tsim Schneider	Anthropology	<i>Comparative Archaeologies of Native-Lived Colonialism in California</i>
Christopher Vollmers	Biomolecular Engineering	<i>Determining the Diversity of Individual Human B cells using Nanopore Sequencing</i>