

2014 University of California Hellman Fellows

UC Berkeley

Reza Alam	Mechanical Engineering	<i>Mitigating Epileptic Seizures via Localization: Theory and Experiment</i>
Timothy Clarke	Philosophy	<i>Aristotle and Parmenides</i>
Nadia Ellis	English	<i>“Archives of the Non-Racial” and the Diasporic City</i>
Seth Finnegan	Integrative Biology	<i>Comparative energetics of tropical marine mollusk communities in space and time</i>
Stavros Gadinis	School of Law	<i>Global Technocrats: The Spread of International Standards</i>
Mariska Kriek	Astronomy	<i>The Origin and Fate of Compact Quiescent Galaxies in the Early Universe</i>

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Alastair Lawrence	Business	<i>SEC Comment Letters and Investor Inattention</i>
Polina Lishko	Molecular & Cell Biology	<i>Investigating the role of the BK potassium channel in asthma</i>
Thomas Maimone	Chemistry	<i>New Synthetic Strategies Directed Toward Neurologically Active Natural Products</i>
David Marno	English	<i>"Holy Attention: Religious Origins of a Secular Concept"</i>
G. Christina Mora	Sociology	<i>Latino Migration and Classification</i>
Gabriel Orebi Gann	Physics	<i>Towards Large-Scale Dark Matter Detection</i>
Diego Pirillo	Italian Studies	<i>Renaissance Intelligencers: Information, Persecution and the Making of Modern Diplomacy</i>

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Carolina Reid	City and Regional Planning	<i>The Intent, Implementation and Impact of the Community Reinvestment Act</i>
Erica Rosenblum	Environmental Science, Policy & Management	<i>A genomic approach to understanding emerging diseases of wildlife</i>
Shawn Shadden	Mechanical Engineering	<i>Simulating cerebral autoregulation: A gateway to modeling stroke</i>
Valerie Shapiro	Social Welfare	<i>Reducing mental, emotional, and behavioral problems in youth through prevention services: Understanding the growth of protective factors to guide service delivery</i>
Sarah Stanley	Public Health	<i>Understanding the role of nitric oxide signaling during M. tuberculosis infection</i>
Sally Thompson	Civil and Environmental Engineering	<i>Could restoring the pre-European fire regime increase the resilience of water supply and forests in the Sierra Nevadas?</i>

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UC Davis

Jawdat Al-Bassam	Molecular and Cellular Biology	<i>Developing A Novel Approach to Halt Tumor Formation by Controlling Cell Division</i>
Gwen Arnold	Environmental Science and Policy	<i>Investigating Citizen Knowledge and Perceptions about High-Volume Hydraulic Fracturing (HVHF) over the Marcellus Shale</i>
Danielle Heard	English	<i>Mavericks of Masquerade: Comic Strategies of Post-Blackness</i>
Katrina Jessoe	Agriculture and Resource Economics	<i>Conservation During Drought: Experimental Evidence from Residential Water Usage</i>
Katherine In-Young Lee	Music	<i>Dynamic Korea, Dynamic Samulnori: An Ethnography of a Transnational Percussion Genre</i>
Shalini Satkunanandan	Political Science	<i>Faith without a Sacrifice of the Intellect: Rational Religions Old and New</i>

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Eduardo Silva	Biomedical Engineering	<i>Directing tissue repair in the context of aging: the role of stem cells</i>
Ina Simonovska	Economics	<i>The Risky Capitol of Emerging Markets</i>
Brett Snyder	Design	<i>CurioCity: Mediating Climate Change in Oakland, CA.</i>
Paul Ullrich	Land, Air and Water Resources	<i>Identifying the Influence of Anthropogenic Forcing on Extreme Weather Events</i>
Anne Visser	Human Ecology	<i>Conduits for Economic Opportunity?: Worker Mobility and Social Economy Organizations in the U.S. Low Wage and Informal Economy</i>
Tobias Warner (Toby)	French and Italian	<i>Aesthetics After Austerity: The "Work" of Literature in Neoliberal Senegal</i>

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UC Irvine

Alex Borucki	History	<i>Slaves, Sliver, and Atlantic Empires: The Slave Trade to Spanish South America, 1660-1810.</i>
Glenda Flores	Chicano/Latino Studies	<i>Gendered Pathways into Medicine: Latina/o Physicians in California</i>
Jesse Colin Jackson	Studio Art	<i>Marching Cubes Made Physical</i>
Anne Lemnitzer	Civil & Environmental Engineering	<i>Smart sections in piles-Towards reducing the over-design of deep foundations.</i>
Jae Hong Kim	Planning, Policy & Design	<i>Crossing-over between Land Cover and Land Use</i>
Simona Murgia	Physics & Astronomy	<i>Searching for Dark Matter in the Inner Regions of the Milky Way with Gamma Rays.</i>

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Timothy Rupert	Mechanical & Aerospace Engineering	<i>Enabling Generation IV Nuclear Reactors with Interface-Dominated Materials</i>
Renee Raphael	History	<i>Metals in Motion: Mining Technology between Europe and the Americas, 1400-1800</i>
Keramet Reiter	Criminology, Law & Society	<i>A Prison within a Prison: A Scholar's Journey into the Hidden Hell of the American Supermax</i>
Maria Rendon	Planning, Policy & Design	<i>Latino Young Men and Their Immigrant Parents in Post-Recession Los Angeles</i>
UCLA		
Randall Akee	Public Policy	<i>How do Changes in Unearned Income Affect American Indian Infants and Children? The Case of American Indian Casino Revenue Transfers</i>

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Patrick Allard	Institute for Society and Genetics/Environmental Health Sciences	<i>A Model Organism Approach to the Study of Environmental Stresses on Fertility</i>
Michael Cohen	English	<i>Poetry and the History of Reading in the United States</i>
William Hanlon	Economics	<i>Directed Technical Change, Lock-in and Leapfrogging: Wood vs. Iron in the 19th Century Shipbuilding Industry</i>
Carrie Hyde	English	<i>Literary Originalism: The Extra-Legal Development of US Citizenship</i>
Ka-Yuet Liu	Sociology	<i>Diffusion of Non-Medical Exemptions to School Vaccine Requirements in California, 1992-2011</i>
Paavo Monkkonen	Urban Planning	<i>The Half-life of Childhood: How Economic Development Shapes Young Adults' Household Position</i>
Adam Moore	Geography	<i>U.S. Military Logistics Outsourcing and the Everywhere of War</i>

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Janet Tomiyama	Psychology	<i>A New National Registry –HEalth Registry of Obesity (HERO)</i>
Lindley Winslow	Physics and Astronomy	<i>Novel Photodetectors for Neutrinoless Double-Beta Decay Searches</i>
Pamela Yeh	Ecology and Evolutionary Biology	<i>Evolution of Multi-Drug Resistant Bacteria</i>

UC Merced

Christine Isborn	Chemistry and Chemical Biology	<i>Modeling Molecular Charge and Energy Transfer in Solution</i>
Frederick Wolf	Molecular Cell Biology	<i>Shared Neural Mechanisms of Motivation for Seeking Food and Drugs of Abuse</i>

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Jitske Tiemensma	Psychology	<i>Better Chemotherapy Tolerance Through Emotion Expression: Pilot Testing an Online Intervention Aimed to Reduce Emotion Suppression in Women with Breast Cancer</i>
David Fortunato	Political Science	<i>The Causes and Consequences of Legislative Expertise</i>
Ricardo Cisneros	Public Health	<i>Exposure and Risk Assessment (ERA) – Determining the Human Health Impacts Caused by Smoke from Wildland Fires on Communities of Central California and Sierra Nevada</i>
UC Riverside		
Jikui Song	Biochemistry	<i>Mechanistic Basis of Mammalian DNA Methyltransferases</i>
Jiuchen Guo	Chemical & Environmental Engineering	<i>Investiagtion of Aluminum-Sulfer Rechargeable Batteries</i>
Kaustabh Ghosh	Bioengineering	<i>Lung-Targeting Nitroglycerin Nanotherapeutic for Improved Treatment of Pulmonary Arterial Hypertension</i>

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Loren Collingwood	Political Science	<i>Cross-Racial Mobilization and Candidate Position-Taking: the Evolution of Hardliners and Moderates During the Second Reconstruction</i>
Maria Covadonga Lamar Prieto	Hispanic Studies	<i>Archives, Spanish and the Linguistic History of Nineteenth-Century California</i>
Robert Hernandez	English	<i>Archival Body/Archival Space: AIDS, Queer Remains, and the Chicano Avant-Garde</i>
Vincent Lavallo	Chemistry	<i>Green Chemistry: Utilizing Carborane Technology to Produce Superior Catalysts</i>
UC San Diego		
Eric J. Bennett	Cell & Developmental Biology	<i>Post-translational control mechanisms governing messenger ribonucleoprotein complex dynamics</i>

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Jelena Bradic	Mathematics	<i>Model Free and Robust Statistical Learning and Inference</i>
Jennifer A. Burney	Global Policy And Strategy	<i>Quantifying and Building Adaptive Capacity for Smallholder Farmers in the Semi-Arid Tropics</i>
Gloria Elizabeth Chacon	Literature	<i>Contemporary Indigenous Intellectuals in Mesoamerica: Literature, Identity, and Politics</i>
Eva-Maria Collins	Physics	<i>Effect of neurotoxins on nervous system development – a quantitative biology approach</i>
Amato Tomas Evan	Climate/Atmos Sci/Phy Oceanog	<i>Water vapor over the Sahara Desert and extreme drought in the Sahel</i>
Drew A. Hall	Elect & Computer Eng	<i>A Hybrid Semi-Digital Transimpedance Amplifier for Nanopore-based DNA Sequencing</i>
Chambers Connor Hughes	Sio Department	<i>Discovering Medicinally-Relevant Natural Products from Marine Bacteria using Reactivity-Guided Isolation</i>

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Kevin M. Lewis	Sociology	<i>On the Shoulders of Giants: Informal Networks and Scientific Production</i>
Patrick Philip. Mercier	Elect & Computer Eng	<i>Energy-Autonomous Wireless Biosensing for Next-Generation Medical Diagnostics and Monitoring</i>
Simeon C. Nichter	Political Science	<i>Declared Support: Evidence from Brazil and Mexico</i>

UCSF

Kirstin Aschbacher	Psychiatry	<i>Assessing the impact of stress-management interventions on health: circulating angiogenic cells as "biosensors" of distress-related cardiovascular risk</i>
Benjamin Breyer	Urology	<i>Mental illness, sexual and urinary dysfunction in returned-veterans. Urethral stricture disease conjoint analysis and patient reported outcome measure</i>

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Carol Camlin	OB/GYN	<i>Understanding the impact of mobility on the HIV care cascade in Africa</i>
Jahan Fahimi	Emergency Medicine	<i>Long-term mortality among victims of firearm violence</i>
Ellen Herbst	Mental Health (VAMC)	<i>Mobile Technology to Improve Treatment Engagement and Outcomes in Smokers with Post-traumatic stress disorder: A pilot study</i>
Prasanna Jagannathan	Medicine	<i>Impact of chemoprevention on the development of YO T cells to malaria</i>
Vivek Jain	Medicine	<i>Immunologic Benefits of Early HIV Antiretroviral Therapy in Resource Limited Settings</i>
Ann Lazar	Preventive and Rest Dental Science	<i>A causal framework for precision health: identifying heterogeneity of treatment-effects to improve patient-care decisions</i>
J. Nwando Olayiwola	F&CM	<i>Building the case for addressing social determinants of health within primary care: A strategy to reduce burnout in providers caring for vulnerable populations</i>

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Viola Rieke	Radiology and Biomed Imaging	<i>MR-guided HIFU ablation of facet joints in swine and evaluation of treatment effects using MRI, CT, PET, and histological analysis</i>
Devi SenGupta	Experimental Medicine	<i>Invariant natural killer T (NKT) cells and the gut microbiome in HIV-1 infection</i>
Melanie Thomas	Psychiatry	<i>Reaching moms where they are: linking maternal mental health and social services within a safety-net pediatric setting</i>
Justin Wahlstrom	Pediatrics	<i>A phase II study of donor lymphocyte infusion in combination with azacitidine for the prevention of hematologic malignancy relapse following allogeneic stem cell transplantation</i>
UC Santa Barbara		
Otger Campas- Rigau	Mechanical Engineering	<i>Physical Principles Governing Early Embryonic Morphogenesis Across Species</i>

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Michelle O'Malley	Chemical Engineering	<i>A Yeast Microbial Sensor to Detect Aerosolized Bioweapons</i>
Aaron Blackwell	Anthropology	<i>Validation of field friendly methods for measuring immune function</i>
Jon Schuller	Electrical & Computer Engineering	<i>Light-Trapping in Oriented Polymer Thin Films: Rethinking Organic Solar Cells</i>
Dominic Steavu-Balint	East Asian Languages and Cultural Studies/Religious Studies	<i>The Stuff of Kings: Material Culture, Local Religion and the Birth of Institutional Taoism in Early Medieval China</i>
Veronica Castillo-Munoz	History	<i>Building the Mexican Borderlands</i>
Jeffrey Hoelle	Anthropology	<i>A Cross-Cultural Comparison of Cattle Production and Beef Consumption in Brazil, India, and the United States</i>
Neil Narang	Political Science	<i>Humanitarian Assistance and the Conduct of Civil War</i>

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Sara Weld	Germanic, Slavic & Semitic Studies	<i>Rare books by remarkable Russians: Toward a radical reconextualization of early Soviet picturebooks</i>
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Lalaie Ameeriar	Asian-American Studies	<i>Downwardly Global: Recolonizing Immigrant Bodies in the Age of Multiculturalism</i>
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UC Santa Cruz

Eric Aldrich	Economics	<i>Filtering Methods for Volatility Estimation</i>
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Amy Rose Deal	Linguistics	<i>Studies in Linguistic Diversity: Pronouns and Tense</i>
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Marc Matera	History	<i>Decolonization and the Development of Race Relations</i>
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Adam Millard-Ball Environmental Studies *Urban Sprawl: A Global Analysis*