

2015 University of California Hellman Fellows

UC Berkeley

Charisma Acey	City and Regional Planning	<i>Exploring the Human Right to Water Paradigm in Urban and Peri-Urban Water Governance</i>
Anil Aswani	Industrial Engineering and Operations Research	<i>Addressing Food Insecurity in Underserved Communities Using Operations Research</i>
Daylet Dominguez	Spanish & Portuguese	<i>Ethnography, Literature, and National Projects in the Hispanic Caribbean</i>
Daniel Fisher	Anthropology	<i>The Country in the City: Urbanization and 'Emergency Response' in Northern Australia</i>
Aaron Fisher	Psychology	<i>Isolating hyperarousal in PTSD: Targeting potential sources of physiologic dysregulation</i>
Peter Jenks	Linguistics	<i>A Database and Grammar of Moro</i>

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Lauren Kroiz	History of Art	<i>Cultivating Citizens: The Regionalist Work of Art in the New Deal Era</i>
Laurel Larsen	Geography	<i>Quantifying the importance of groundwater for fish habitat in California's intermittent streams</i>
Lisa Maher	Anthropology	<i>(Re)Constructing and Using Space in Prehistory: Exploring Technologies, Domestic Activities and Communal Living at a 20,000-Year-Old Hunter-Gatherer Site in Jordan</i>
Angela Marino	Theater, Dance & Performance Studies	<i>Fiesta Performance and Governance</i>
Evan Miller	Chemistry	<i>New Chemical Tools for Optically Recording Neuronal Activity</i>
Saira Mohamed	Law	<i>The Law and Culture of Disobeying Illegal Orders</i>
Scott Moura	Civil and Environmental Engineering	<i>Optimally Fast-Safe Battery Charging via Pseudospectral Methods</i>

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Grace O'connell	Mechanical Engineering	<i>Effect of disc herniation repair on tissue remodeling and joint function</i>
Andrea Roth	Law	<i>An Investigation of the Emerging Police Practice of Maintaining Local Databases of "Volunteered" and "Abandoned" DNA</i>
Alexandra Saum-Pascual	Spanish & Portuguese	<i>Hispanic Legacies: The Trace of Experimental Writing in Spain and Latin America (An Electronic Literature Project)</i>
Nicholas Swanson-Hysell	Earth & Planetary Science	<i>Did Earth lose its balance 800 million years ago? Testing the planetary reorientation hypothesis using the Zavkhan Volcanics of Mongolia</i>
Lisa Trever	History of Art	<i>Ancient Andean Art, Archaeology, and Molecular Science</i>
Ke Xu	Chemistry	<i>Spectrally resolved multicolor super-resolution microscopy</i>
Jie Yao	Materials Science & Engineering	<i>New Material Platform for Future Smart Windows</i>

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Wenjun Zhang Chemical & Biomolecular Engineering *Biosynthesis of tagged natural products and their applications*

UC Davis

Shu Shen Economics *Selective Instrumental Variable Regression*

**Danielle
Stolzenberg** Psychology *Epigenetic Mechanisms of Infant Neglect*

Nicolas Zwyns Anthropology *Human Response to Climate Change during the Late Pleistocene
in Northern Mongolia*

Helen Koo Design *Development of Fabric-based Wearable Monitoring Systems
for Autism Spectrum Disorders*

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Jessica Bissett Perea	Native American Studies	<i>Last Frontier Audioreelism: Media and the Politics of Indigenous Music in Alaska; 1959-Present</i>
Margaret Ronda	English	<i>Remainders: Poetry at Nature's End</i>
Chunjie Zhang	German and Russian	<i>I. Scientific Internationalism and New-Confucian Cosmopolitanism: Approaches toward the Global in Chinese and European Modernisms; II. Travel Experience in the Age of Digital Media</i>
Kevin Gee	Education	<i>The Education of Abused and Neglected Children: Understanding the Effects of Head Start Participation</i>
Cassandra Hart	Education	<i>Which Teachers Fare Best Under Class Size Increases</i>
Brian Johnson	Entomology & Nematology	<i>Genetic mechanisms underlying the evolution of novelty</i>
Siwei Liu	Human Ecology	<i>Making Sense of Self-Tracking Data: A Comparison of Sample-Based and Individual-Based Statistics</i>

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Brett Milligan

Landscape Arch, Human Ecology

DredgeFest California: Bay-Delta Earthworks

UC Irvine

Emily Baum

History

*Spit, Chains, and Hospital Beds: A History of Madness in
Republican China, 1911-1937*

**Mohammad Al
Faruque**

Electrical Engineering & Computer
Science

Towards Secured Societal-Scale Cyber-Physical Transportation System.

Yilin Hu

Molecular Biology & Biochemistry

Engineering chimeric proteins for biofuel production

Litia Perta

Art

Tidal Kinships

Seth Pipkin

Planning, Policy & Design

*Exit, Voice and Loyalty in Cities under Siege: Transnational Migration
and Citizen Journalism on the US-Mexico Border*

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Jenny Yang

Chemistry

*Integration of Electrocatalysts to Photovoltaics for Solar Fuel
Generating Photoelectronchemical Cells*

UCLA

Stephen Acabado

Anthropology

Highland Responses to Spanish Colonialism in the Philippines

Michelle Caswell

Information Studies

Community Archives Countering Symbolic Annihilation

Yvonne Chen

Chemical and Biomolecular
Engineering

*Engineering Tumor-Targeting T Cells with Autonomous Safeguard
Against Cytokine Release Syndrome*

**Lauren Duquette-
Rury**

Sociology

Voice and Exit: The Paradox of Cross-Border Politics in Mexico

Ian Holloway

Social Welfare

Substance Use and Physical/Sexual Violence in MSM Nightlife Venues

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Jingyi Li	Statistics/Human Genetics	<i>A New Statistical Measure to Capture Complex Gene Interactions from Massive Genomic Data</i>
Kirk Lohmueller	Ecology and Evolutionary Biology	<i>Population Genomic Signatures of Mutagenic Recombination</i>
Lingsen Meng	Earth, Planetary, and Space Sciences	<i>A Novel Tsunami Early Warning System Based on Seismic Antennas</i>
Christopher Tausanovitch	Political Science	<i>How Often Do Americans Know Their Own Views on Public Policy Questions, and How Does this Affect Representation?</i>
Jasmine Trice	Film, Television and Digital Media	<i>City of Screens: Circulation, Cinema, and the Transnational in Manila, Philippines</i>
Alex Wang	Law	<i>Environmental Transparency in China</i>

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UC Merced

Chih-Chun Chien	Physics	<i>Exploring and Controlling Memory Effects in Quantum Atomic Transport</i>
Whitney Laster	Sociology	<i>A Phenomenological Study of Racial Limbo Among Coloured South Africans</i>
Ryan Baxter	Chemistry	<i>New Chemical Tools for Biomedical Imaging</i>
Susana Ramirez	Psychology	<i>Mapping the Health Information Environment in a Rural, Culturally Diverse Region: Toward a Transformative Health Information Intervention to Reduce Rural and Ethnic Health Disparities</i>
Jason Sexton	Earth Systems	<i>Effects of Gene Flow at Warm and Cold Limits of Plant Species Ranges</i>

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UC Riverside

Erin Wilson Rankin	Entomology	<i>Elucidating the Roles of Honey Bees, their Pathogens and Climate on Life History Shifts in an Invasive Social Wasp</i>
Ian Dicke	Music	<i>Cowboy Rounds</i>
Jong (J.P.) Park	History of Art	<i>Conflicted Realities: Painting and Cultural Politics in Late Choson Korea (1700-1850)</i>
Marissa Brookes	Political Science	<i>Good Jobs in the Global Economy: Examining the New Politics of Transnational Labor and Multinational Corporations through an Analysis of TLA Campaign</i>
Ming Liu	Electrical & Computer Engineering	<i>Novel Photonic Integrated Devices for On-chip Data Communication</i>
Shujie Ma	Statistics	<i>Varying Index Coefficient Modeling for Environmental Risk Assessment</i>

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UC San Diego

**Marco Aburto
Oropeza**

Marine Biology Research Division

Counting the world's artisanal fleet

Marc Garelleck

Linguistics

The role of voice in language

Jillian Hernandez

Ethnic Studies

*Aesthetics of Excess: Visual Culture and the Sexual Racialization of
Girls and Women of Color*

Ruixue Jia

Global Policy And Strategy

*Is China's Pollution the Culprit for the Choking of South Korea?
Evidence for the Asian Dust*

Boubacar Kante

Elect & Computer Eng

Ultra-Sensitive Optical Detection Using Metamaterials

Darren John Lipomi

Nanoengineering

*Modeling the mechanical properties of organic semiconductors for
flexible, printed devices*

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Dana Murillo	History	<i>Urban Indians in a Silver City: Zacatecas, Mexico 1546-1810</i>
Janet Vanesa Ribas	Sociology	<i>The Present and Future of Race, Immigration, and Labor in the United States</i>
Ryan Saab	Mathematics	<i>Quantization and Encoding for Modern Data Acquisition: Algorithms and Theory</i>
Chih-Ying Su	Neurobiology	<i>Modulation of circuits and behavior by a non-synaptic mechanism</i>
Jennifer Rebecca Taylor	Sio Department	<i>From sea to tree: vertical climbing in crabs</i>
Roy Wollman	Chemistry-Biochemistry	<i>Reliability of Signal Transduction</i>

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UCSF

John Chorba	Cardiology	<i>Discovery of Small Molecule Inhibitors of PCSK9</i>
Elena Flowers	Physiological Nursing	<i>Circulating MicroRNAs Associated with Risk for Type 2 Diabetes</i>
Laura Gottlieb	Family and Community Medicine	<i>Integrating Social Factors into Electronic Health Records</i>
Dhruv Kazi	Cardiology	<i>“Virtual Anticoagulation Clinics”: mHealth to Improve Quality of Anticoagulation in India</i>
Monica Mclemore	Family Healthcare Nursing	<i>Black women and preterm birth: The role of maternal stress, resilience and coping</i>
Linda Park	Community Health Systems	<i>Improving Medication Adherence through Patient-Centered Mobile Health Technology</i>

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Jennifer Price	Gastroenterology	<i>The Influence of HIV Infection on the Natural History of Nonalcoholic Fatty Liver Disease</i>
Hilde Schjerven	Laboratory Medicine	<i>Use of Mouse Models to Study the Function of Ikaros in B cell Development and Disease</i>
Jenise Wong	Pediatrics	<i>Use of Diabetes Device Features and Data Review by Early Adolescents with Type 1 Diabetes</i>
Sarah Woolf-King	Prevention Science	<i>Mental Health Needs Among Parents of Children with Congenital Heart Defects</i>
UC Santa Barbara		
Hillary Young	Ecology, Evolution and Marine Biology	<i>Interaction of changing climates and wildlife communities on tick-borne disease in California</i>

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Stephen Wilson	Materials	<i>The role of electronic correlations in transition metal oxide battery materials</i>
Maya Rossin-Slater	Economics	<i>Joint Custody and Family Outcomes</i>
Mark Buntaine	Environmental Science and Management	<i>Harnessing the Crowd to Improve Accountability for the Delivery of Public Services</i>
Irene Chen	Chemistry and Biochemistry	<i>Biochemical specificity during the emergence of the genetic code</i>
Stefano Tessaro	Computer Science	<i>Better Theoretical Foundations for Modern Cryptographic Primitives</i>
Xu Yang	Mathematics	<i>Mathematical Theory and Computational Methods for Imaging Earth</i>
Glyn Salton-Cox	English	<i>Good Comrades and Splendid Creatures: Queer Communists and the Making of the Midcentury Sexual Subject</i>

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Greg Mitchell

Theater and Dance

Macbeth Massacre collaboration with theatre artists from the US and Nepal integrating

Benjamin Levy

Music

The Schoenberg-Webern Correspondence

UC Santa Cruz

Gerald Casel

Theater Arts

Splinters In Our Ankles – Collective Cultural Amnesia and Performed Resistance in the Tinikling, The Philippine National Dance

Nicolas Davidenko

Psychology

How experience shapes orientation-dependent visual processing

Jennifer Derr

History

Agriculture and Public Health in Egypt

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Rebecca DuBois	Biomolecular Engineering	<i>Understanding how astrovirus enters human cells</i>
Lars Fehren-Schmitz	Anthropology	<i>Colonial Encounters and Climate Change: Mapping the Evolution of Human Genetic Diversity in the Central Andes throughout the Pre-Columbian Period</i>
Grace Gu	Economics	<i>Firm-paid Benefits, Employment, and Monetary Policy</i>
Eric Palkovacs	Ecology & Evolutionary Biology	<i>An experimental test for eco-evolutionary feedbacks along a classic evolutionary pathway in threespine stickleback</i>
Juned Shaikh	History	<i>Spatializing Caste and Class</i>
Maziar Toosarvandani	Linguistics	<i>How do languages vary? Aspect and its interpretation in discourse</i>