

2016 University of California Hellman Fellows

UC Berkeley

Andrew Atwood	Architecture	<i>In My Our Backyard: New Tools and Strategies for ADU Design, Development and Construction</i>
Helen Bateup	Molecular & Cell Biology	<i>Modeling neurodevelopmental disorders using human cortical organoids</i>
Thomas Courtade	Electrical Engineering & Computer Sciences	<i>An Information-Theoretic Approach for Improving Speed and Reliability of DNA Assembly</i>
Victor Couture	Business	<i>The Gains from Online Integration: Evidence from County-Level Panel Data in China</i>
Benjamin Faber	Economics	<i>The Gains from Online Integration: Evidence from County-Level Panel Data in China</i>

2016 University of California Hellman Fellows

Kathryn De Master	Environmental Science, Policy and Management	<i>Buying the Farm: The Financialization of Rural America</i>
Stephanie Jones- Rogers	History	<i>Seaborne: African Captivity, Pregnancy, Childbirth, and Belonging in the Middle Passage</i>
Ming Leung	Business	<i>Casting a wider net: An investigation into whether having more women apply to male dominated jobs will improve the gender imbalance</i>
Christopher Palmer	Business	<i>Brief title of proposed Hellman project: Who Benefitted from the Federal Reserve's Unconventional Monetary Policy?</i>
Sugata Ray	Art History	<i>Geoaesthetics in the Little Ice Age: Sensorium, Sacramento, and Artistic Cultures in Braj, ca. 1550–1850</i>
Tina Sacks	Social Welfare	<i>The Long Reach of the Tuskegee Syphilis Study: Exploring Trauma and Resilience Among Study Descendants</i>

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Poulomi Saha	English	<i>Object Imperium and Global Theory Collaboration</i>
Kaoru Saijo	Molecular & Cell Biology	<i>Effects of environmental factors and sex hormones on major depression disorders</i>
Daniel Schneider	Sociology	<i>The Effects of Work Hour Instability on the Wellbeing of Workers and their Families: Evidence from Changes in Company Practices and Law</i>
Ian Wang	Environmental Science, Policy and Management	<i>Genomic Responses to a Century of Climate Change in California</i>
Caroline Williams	Integrative Biology	<i>Balancing supply and demand: modulation of energy efficiency during life history evolution</i>
Danny Yagan	Economics	<i>College and Intergenerational Mobility: New Evidence from Administrative Data</i>

2016 University of California Hellman Fellows

UC DAVIS

Matthias Hess	Animal Science	<i>Studying the microbial response to a feed additive that decreases methane emission during enteric fermentation: Towards sustainable methane mitigation strategies for California's dairy industry</i>
Angela Zivkovic	Nutrition	<i>The Functional Biology of Acute Phase HDL</i>
Sean Collins	Microbiology & Molecular Genetics	<i>Understanding the origins of autoimmune disease: unraveling the mechanisms of DNA extrusion by neutrophils during immune responses</i>
Diasynou Fioravante	Center for Neuroscience/NPB	<i>Cellular and molecular cartography of cerebellar output neurons regulating fear</i>
Katherine Ralston	Microbiology & Molecular Genetics	<i>New genetic tools to study trogocytosis (cell-nibbling)</i>

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Philipp Zerbe	Plant Biology	<i>Establishing the Biochemical Networks for Environmental Stress Tolerance in Maize (Zea mays)</i>
Ryan Lee Cartwright	American Studies	<i>Peculiar Places: A Queer/Crip History of Rural Nonconformity</i>
Anna Uhlig	Classics	<i>Script and Song in Pindar and Aeschylus</i>
Susy Zepeda	Chicana/o Studies	<i>Building an Oral History: Excavating Queer Xicana Indigenous Knowledges</i>
Kyle Crabtree	Chemistry	<i>Experimental Measurements of Prebiotic Chemistry in Astrophysical Conditions</i>
Evgeny Gorskiy	Mathematics	<i>Knot Homology Theories and Their Applications</i>

2016 University of California Hellman Fellows

Marian Schlotterbeck	History	<i>Everyday Revolutions: Grassroots Movements and the Making of Revolutionary Chile, 1964-1973</i>
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UC Irvine

Jacob Avery	Sociology	<i>American Reservation : An Ethnographic Study of Survival Strategies used among residents of Pine Ridge Indian Reservation</i>
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Elizabeth Martin Bailey	Psychology & Social Behavior	<i>Response Coherence in Anhedonia</i>
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Davin Phoenix	Political Science	<i>Anger Issues: The Impact of Race on Emotional Responses to Politics, and Implications for Action</i>
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UNIVERSITY
OF
CALIFORNIA

2016 University of California Hellman Fellows

Sha Sun	Developmental & Cell Biology	<i>Epigenetic Inheritance Mediated by Long Noncoding RNA</i>
Marco Levorato	Computer Science	<i>The Path Towards Smart Interconnected Communities</i>
Sergey Pronin	Chemistry	<i>Synthesis of Systemic Ectoparasitocides for Malaria and Zika Fever Control</i>

UCLA

E. Tendayi Achiume	Law	<i>The Role of International Law and Policy in Promoting Self-Reliance Among Urban Refugees</i>
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2016 University of California Hellman Fellows

Hannah Appel	Anthropology	<i>Pan African Capital: Finance, Banking, and Economic Self-Fashioning</i>
Erica Cartmill	Anthropology	<i>Measuring Gesture Meaning in Great Apes</i>
Chad Hazlett	Statistics/Political Science	<i>Measuring Fear to Understand Mechanisms of Ethnic Conflict</i>
Domenico Ingenito	Near Eastern Languages & Cultures	<i>Beholding Beauty: Sa'di of Shiraz and the Persian Lyric Tradition</i>
Su Yon Jung	Nursing	<i>Insulin-Resistance Polymorphisms, Obesity in Breast Cancer</i>
Rory Kelly	Film, Television & Digital Media	<i>To Someday Understand</i>

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Pamela Kennedy	Psychology	<i>Epigenetic Mechanisms of Maladaptive Learning and Memory in Drug Addiction</i>
Francesca Martelli	Classics Information Studies/Education/Gender Studies/African American Studies	<i>Writing Cicero: Editorial Narratives of Cicero's Letter Collections</i>
Safiya Noble	Studies	<i>The ImagineEngine: A Non-Commercial Public Information Index</i>
Jessica Schwartz	Musicology	<i>Radiation Sounds: Marshallese Music and Nuclear Silences</i>
Dante Simonetti	Chemical & Biomolecular Engineering	<i>Distributed Hydrogen Generation Via Small Scale Sorption-Enhanced Steam Reforming Catalyzed by Nanofibrous Mixed Metal Oxides</i>
Andrew Stewart	Atmospheric & Oceanic Sciences	<i>Melting the Giant: Modeling Oceanic Heating of the Antarctic Ice Sheet</i>

2016 University of California Hellman Fellows

Sherod Thaxton Law

State-Level Procedural Sentencing Law and Selective Prosecution Law

UC Merced

Emily Moran Life & Environmental Sciences

The Influence of Competition and Genetic Variation on Climate Responses in Sierra Nevada Pine Seedlings

Shilpa Khatri Applied Mathematics

Subsurface Trapping of Oil Droplets Rising in Density Gradients

Ramedra Saha Quantitative & System Biology

Role of Epigenetic Factors H2A.Z Hypervariants in Neurogenesis: Relevance to Autism and Schizophrenia

2016 University of California Hellman Fellows

Venkatraman Ayyaswamy	Mechanical Engineering	<i>Exploring Atmospheric Pressure Plasma Jet Stimulation for Efficient Nutrient Delivery and Enhanced Agricultural Productivity</i>
Mariaelena Gonzalez	Psychology	<i>Understanding the Oral Health Needs of Young Adults at the University of California Merced</i>
Dalia Magana	History & World Cultures	<i>Health Narratives and the Sociolinguistic Situations of Spanish-speaking Latinos in California's Central Valley</i>
Gregory Wright	Economics	<i>Globalization, Innovation and City Growth</i>
Ala Qattawi	Mechanical Engineering	<i>Material Characterization of Stainless Steel Alloys Components Produced by Direct Metal Laser Sintering under Various Service Temperatures</i>
Sidra Goldman- Mellor	Public Health	<i>The project has two primary empirical aims: (1) To investigate long-term patterns of emergency department (ED) visits, hospital inpatient stays, morbidity risk, and healthcare costs among adolescent suicide attempters relative to controls; and (2) To investigate factors predicting worse outcomes among suicide attempters.</i>

2016 University of California Hellman Fellows

UC Riverside

**Erin Wilson
Rankin**

Entomology

*Elucidating the Roles of Honey Bees, their Pathogens and Climate on Life History
Shifts in an Invasive Social Wasp*

Ian Dicke

Music

Cowboy Rounds

Jong (J.P.) Park

History of Art

Conflicted Realities: Painting and Cultural Politics in Late Choson Korea (1700-1850)

Marissa Brookes

Political Science

*Good Jobs in the Global Economy: Examining the New Politics of Transnational
Labor and Multinational Corporations through an Analysis of TLA Campaign*

Ming Liu

Electrical & Computer
Engineering

Novel Photonic Integrated Devices for On-chip Data Communication

2016 University of California Hellman Fellows

Shujie Ma Statistics *Varying Index Coefficient Modeling for Environmental Risk Assessment*

**UC San
Diego**

Abigail Andrews Sociology *The Politics of Mexican Migrants' Exclusion*

Shenqiang Cai Mechanical and Aerospace
Engineering *Large deformation, damage and instability in intervertebral disc*

Amy Claire Cimini Music *Open Lines*

Ian Eisenman SIO DEPARTMENT *A Mechanism for the Discrepancy between Observed and Modeled Polar Sea Ice Changes*

2016 University of California Hellman Fellows

**Marta Serra
Garcia**

Rady School of Management

Giving Now or Later: Procrastination in Prosocial Behavior

Vikash Gilja

Electrical and Computer
Engineering

Engaging Massive Datasets for Clinical Neural Engineering

**Mattie Marie
Harper**

Ethnic Studies

Unraveling the Bongas: Labor, Race, and Settler Colonialism in Ojibwe Country, 1780-1890

**Jeffrey Dennis
Rinehart**

Chemistry and Biochemistry

Colloidal Nanoscale Engineering of Application-Tailored Magnetic Materials

**Margaret Earling
Roberts**

Political Science

Estimating the Impact of the Great Firewall on Political Opinion in China

**Deborah Isobel
Stein**

Theatre and Dance

Etta, A Tragedy

2016 University of California Hellman Fellows

**Matthew Werner
Vitz**

History

A City on a Lake: Urban Political Ecology and the Growth of Mexico City

Alena Williams

Visual Arts

The Total Experiment: Cinema and the Modernist Work of Art

**Shelley Adams
Wright**

Physics

A Robotic Spectrograph to Map Dark Matter

2016 University of California Hellman Fellows

UCSF

Sara Ackerman	Social and Behavioral Sciences	<i>Uncertainty and Actionability: The Role of Genomic Testing in Late-Stage Cancer Treatment Decisions</i>
Amy Beck	Pediatrics	<i>Enhanced Primary Care Nutrition and Screen Time Education to Prevent Obesity in Latino Infants</i>
Jack Chase	Family and Community Medicine	<i>Communicating Wisely: E.H.R.-Initiated Healthcare Team Coordination for Underserved Patients--A Mixed Methods Analysis</i>
Hemal Kanzaria	Emergency Medicine	<i>Frequent Emergency Department Utilization by Vulnerable Populations</i>
Erica Lawson	Pediatrics	<i>Determinants of Long-term Disease Damage in Childhood-Onset Systemic Lupus Erythematosus</i>

2016 University of California Hellman Fellows

Michael Lipnick	Anesthesia	<i>Anesthesia & public health: creating a model of international academic partnership for research and medical education capacity building in resource-constrained settings</i>
Jyoti Mishra	Neurology	<i>A Real-Time Closed Loop to Optimize Neural Networks Underlying Attention</i>
Monika Sarkar	Gastroenterology	<i>Androgens and Nonalcoholic Steatohepatitis: The Role of "Male" Sex Hormones in Women with NASH</i>
May Sudhinaraset	Global Health Sciences	<i>The BRAVE Study: Assessing Deferred Action and the Health Status of Undocumented Youth through an Internet-Based Survey</i>

2016 University of California Hellman Fellows

**UC Santa
Barbara**

Douglas McCauley	Ecology, Evolution and Marine Biology	<i>Raccoon (Procyon lotor) spatial ecology and the potential for reducing human disease risk</i>
Ty Vernon	Counseling, Clinical, and School Psychology	<i>Using electroencephalogram (EEG) technology to examine visual and auditory processing in children with autism spectrum disorder</i>
Matthew Helgeson	Chemical Engineering	<i>Engineering multi-nanoemulsions for templating complex nanoparticles</i>
Kyle Ratner	Psychological and Brain Sciences	<i>Neural and Behavioral Effects of Stigma on Reward Processing</i>
Erika Felix	Counseling, Clinical, and School Psychology	<i>The Impact of Media Exposure to Mass Violence and Terrorism on Youth Adjustment</i>

2016 University of California Hellman Fellows

Susan Cassels	Geography	<i>Spatial models of human migration, environment, and infectious disease transmission: The case of Zika virus disease</i>
Timothy Devries	Geography	<i>Constraining the marine iron cycle with oceanographic observations in a global inverse model</i>
Naoki Yamamoto	Film and Media Studies	<i>Dialectics without Synthesis: Provocations on Realism, Film Theory, Japanese Cinema</i>
David Walker	Religious Studies	<i>"Railroading Religion: Mormons, Tourists, and the Bureaucratic Spirit of the West"</i>
Emanuel Vespa	Economics	<i>Multimarket Contacts and Collusive Behavior: An Exploration in the Laboratory</i>
Swati Rana	English	<i>Retrograde Minorities: Problem Characters in U.S. Ethnic Literature, 1900-1960</i>

2016 University of California Hellman Fellows

UC Santa Cruz

Mark Amengual	Languages and Applied Linguistics	<i>Living in two languages: What constitutes “Good Pronunciation” in bilingual speech?</i>
Alexander Ayzner	Chemistry and Biochemistry	<i>Semiconducting Polyelectrolytes as Building Blocks for a Soft Artificial Photosystem</i>
Rajarshi Guhaniyogi	Applied Mathematics and Statistics	<i>Hierarchical Bayesian Statistical Modeling of Massive Scale Spatially Referenced Databases</i>
Juhee Lee	Applied Mathematics and Statistics	<i>Novel Nonparametric Bayesian Inference for Metagenomics with Two Applications</i>
Samantha Matherne	Philosophy	<i>Idealism in Exile: Cassirer and the Warburg Institute</i>

2016 University of California Hellman Fellows

Nick Mitchell	Feminist Studies and Critical Race and Ethnic Studies	<i>Documenting Labor in California Black Studies</i>
Jevgenij Raskatov	Chemistry and Biochemistry	<i>Cell Culture Studies of a Novel Chiral Variant of Alzheimer's Amyloid Beta 1-42 Peptide</i>
Marilou Sison-Mangus	Ocean Sciences	<i>Investigating the chemical cross-talk between the toxin-producing diatom and its associated bacteria</i>
Jennifer Taylor	Film and Digital Media Department	<i>Redneck Muslim</i>