

## 2016 University of California Hellman Fellows

### UC Berkeley

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

**2016 University of California Hellman Fellows**

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

**2016 University of California Hellman Fellows**

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

2016 University of California Hellman Fellows

UC DAVIS

<b>Matthias Hess</b>	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>
<b>Angela Zivkovic</b>	Nutrition	<i>The Functional Biology of Acute Phase HDL</i>
<b>Sean Collins</b>	Microbiology & Molecular Genetics	<i>Understanding the origins of autoimmune disease: unraveling the mechanisms of DNA extrusion by neutrophils during immune responses</i>
<b>Diasynou Fioravante</b>	Center for Neuroscience/NPB	<i>Cellular and molecular cartography of cerebellar output neurons regulating fear</i>
<b>Katherine Ralston</b>	Microbiology & Molecular Genetics	<i>New genetic tools to study trogocytosis (cell-nibbling)</i>

**2016 University of California Hellman Fellows**

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

**2016 University of California Hellman Fellows**

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

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

UNIVERSITY  
OF  
CALIFORNIA

**2016 University of California Hellman Fellows**

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

**UCLA**

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



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

<b>Venkattraman Ayyaswamy</b>	Mechanical Engineering	<i>Exploring Atmospheric Pressure Plasma Jet Stimulation for Efficient Nutrient Delivery and Enhanced Agricultural Productivity</i>
<b>Mariaelena Gonzalez</b>	Psychology	<i>Understanding the Oral Health Needs of Young Adults at the University of California Merced</i>
<b>Dalia Magana</b>	History & World Cultures	<i>Health Narratives and the Sociolinguistic Situations of Spanish-speaking Latinos in California's Central Valley</i>
<b>Gregory Wright</b>	Economics	<i>Globalization, Innovation and City Growth</i>
<b>Ala Qattawi</b>	Mechanical Engineering	<i>Material Characterization of Stainless Steel Alloys Components Produced by Direct Metal Laser Sintering under Various Service Temperatures</i>
<b>Sidra Goldman-Mellor</b>	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**

<b>Shujie Ma</b>	Statistics	<i>Varying Index Coefficient Modeling for Environmental Risk Assessment</i>
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**UC San  
Diego**

<b>Abigail Andrews</b>	Sociology	<i>The Politics of Mexican Migrants' Exclusion</i>
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<b>Shenqiang Cai</b>	Mechanical and Aerospace Engineering	<i>Large deformation, damage and instability in intervertebral disc</i>
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<b>Amy Claire Cimini</b>	Music	<i>Open Lines</i>
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<b>Ian Eisenman</b>	SIO DEPARTMENT	<i>A Mechanism for the Discrepancy between Observed and Modeled Polar Sea Ice Changes</i>
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**2016 University of California Hellman Fellows**

<b>Marta Serra Garcia</b>	Rady School of Management	<i>Giving Now or Later: Procrastination in Prosocial Behavior</i>
<b>Vikash Gilja</b>	Electrical and Computer Engineering	<i>Engaging Massive Datasets for Clinical Neural Engineering</i>
<b>Mattie Marie Harper</b>	Ethnic Studies	<i>Unraveling the Bongas: Labor, Race, and Settler Colonialism in Ojibwe Country, 1780-1890</i>
<b>Jeffrey Dennis Rinehart</b>	Chemistry and Biochemistry	<i>Colloidal Nanoscale Engineering of Application-Tailored Magnetic Materials</i>
<b>Margaret Earling Roberts</b>	Political Science	<i>Estimating the Impact of the Great Firewall on Political Opinion in China</i>
<b>Deborah Isobel Stein</b>	Theatre and Dance	<i>Etta, A Tragedy</i>

**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

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



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<b>Michael Lipnick</b>	Anesthesia	<i>Anesthesia &amp; public health: creating a model of international academic partnership for research and medical education capacity building in resource-constrained settings</i>
<b>Jyoti Mishra</b>	Neurology	<i>A Real-Time Closed Loop to Optimize Neural Networks Underlying Attention</i>
<b>Monika Sarkar</b>	Gastroenterology	<i>Androgens and Nonalcoholic Steatohepatitis: The Role of "Male" Sex Hormones in Women with NASH</i>
<b>May Sudhinaraset</b>	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**

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

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

2016 University of California Hellman Fellows

UC Santa Cruz

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

**2016 University of California Hellman Fellows**

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