

2012 University of California Hellman Fellows

UC Berkeley

Diliana Angelova	History of Art	<i>Radiocarbon Dating of Byzantine Bone and Ivory Boxes</i>
Clayton Critcher	Business	<i>How Legislating Political Niceness Has Encouraged Political Nastiness</i>
Julianna Deardorff	Public Health	<i>Early adversity exposure and Mexican American adolescents' pubertal development, sexual risk-taking behaviors and substance use</i>
Danielle Ercek	Chemical & Biomolecular Engineering	<i>In vitro nanobioreactors: Investigating the effects of encapsulation on enzyme kinetics</i>
Beate Fricke	History of Art	<i>Life in the making: Creation, procreation and mimesis in the late Middle Ages</i>
Ming Hsu	Business	<i>How does the brain represent brands? Toward a neuroscientific basis of consumer behavior</i>

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Malo Hutson	City and Regional Planning	<i>Deepening Their Roots: The Urban Struggle for Economic, Environmental, and Social Justice</i>
Katerina Linos	School of Law	<i>Rights on the Ground: International Organizations, National Institutions and the Protection of Fundamental Rights</i>
Michael Lustig	EECS/ERSO	<i>Bespoke Coils: High-Sensitivity Flexible MRI Coils via Printed Electronics</i>
Mairi Mclaughlin	French	<i>The Origins and Evolution of Journalistic French: From the First Periodical (1631) to the French Revolution (1789)</i>
Holger Mueller	Physics; LBNL	<i>Ultrafast x-rays and ultracold atoms</i>
Mahasin Mujahid	Public Health	<i>The Influence of Neighborhood Environments on Management of Type II Diabetes</i>
Daniel Sargent	History	<i>Making Globalization: Power, Integration, and Governance in the Modern World Economy</i>

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Kyle Steinfeld	Architecture	<i>Visualization Tools for Climate-Calibrated Design</i>
Michiko Taga	Plant & Microbial Biology	<i>Shared Corrinoïd Production in Microbial Communities</i>
Lauren Williams	Mathematics	<i>Applications of combinatorics to statistical physics and integrable systems.</i>

UC Davis

Rebekka Andersen	Univ. Writing Program	<i>Examining the diffusion of component content management in organizations</i>
Shota Atsumi	Chemistry	<i>Structural and evolutionary approaches to expand metabolism for sustainable chemistry</i>

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Marissa Baskett	Env. Sci & Policy	<i>Adaptation and dispersal in variable environments</i>
Corrie Decker	History	<i>Sex education and the politics of culture on the Swahili Coast</i>
Georgia Drakakaki	Plant Sciences	<i>Understanding vesicle trafficking during plant cell division using a novel inhibitor endosidin 7</i>
Marc Facciotti	Biomed Eng	<i>Development of low-Cost microfluidic device for chromatin immunoprecipitation followed by next generation DNA sequencing</i>
Nilesh Gaikwad	Nutrition	<i>Estrogen metabolome for prediction of breast and other cancers</i>
Christiana Giordano	Anthropology	<i>Migrants in translation: State practices of cultural healing in contemporary Italy</i>
Kyle Joyce	Political Science	<i>Endogenous shocks and International Networks</i>

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Wesley Moons	Psychology	<i>Interracial interactions induce physiological inflammation</i>
Stephen O'Driscoll	Computer Science	<i>Location adaptive wireless power transfer for implantable medical devices</i>
Louie Yang	Entomology	<i>The fitness consequences of phenological shifts in milkweed-monarch interactions</i>

UCLA

Danijela Cabric	Electrical Engineering	<i>Efficient Spectrum Sharing using Cognitive Radios</i>
Daniela Cusack	Geography	<i>Does Nitrogen Pollution Affect Carbon Cycling in Nitrogen-Rich Tropical Forests</i>

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Robert Daland	Linguistics	<i>Phonology in Word Segmentation and Recognition</i>
Sung Hui Kim	Law	<i>The Last Nazi Bond and the Early Years of the SEC</i>
Rodney McMillian	Art	<i>from Asterisks in Dockery</i>
Jonathan Mitchell	Earth & Space Sciences	<i>Exploring the Interiors of Ocean Moons</i>
Amy Rowat	Integrative Biology & Physiology	<i>The Molecular Origins of Cell Nucleus Shape Stability</i>
Donatello Telesca	Biostatistics	<i>Statistical Methods for the Analysis of Adverse Symptoms Co-occurrence in Breast Cancer Patients</i>
Aradhna Tripathi	Earth & Space Sciences	<i>How have Changing Carbon Dioxide Levels Influenced Climate in the Past?</i>

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Nico Voigtlaender Anderson School of Management *The Geography of Hate: Historical Roots of Anti-Semitism in 21st Century Germany*

UC Merced

Rose Scott Developmental Psychology *Can babies read minds? A developmental account of understanding others*

Nigel Hatton Literature *A Novel Idea: Global Human Rights and World Literature After 1945*

Néstor J. Oviedo Biology *Systematic Targeting of Signaling Pathways to Control Stem Cell Behavior During Regeneration and Cancer*

Teamrat Ghezzehei Soils Physics *Acquisition of AOC-5000 Front End Automation Headspace Autosampler to be used with Gas Chromatography (GC) Unit from Shimadzu™ (GC-2014 Greenhouse Gas analyzer)*

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Haifong Huang	Political Sciences	<i>Information Order in a Changing Society: The Political Economy of Mass Media and Public Opinion in China</i>
Yanbao Ma	Engineering	<i>Environmental Impacts of Solar Energy Development in Arid and Semi-Arid Areas</i>
UC Riverside		
Annamaria M. Shimabuku	Comparative Literature & Foreign Languages	<i>Transnational Miscegenation in Okinawa: Governmentality from Below</i>
Caroline Roper	Plant Pathology & Microbiology	<i>Understanding How Bacteria Shape their Complex Multi-Cellular Community Architecture</i>
Huinan Liu	Bioengineering	<i>Assessment of Novel Resorbable Implants using a Functional Animal Model</i>

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Kendra Taira Field	History	<i>Race and American Expansion in the Long Nineteenth Century</i>
Li Fan	Biochemistry	<i>Structural and Functional Studies of DNA Helicase XPB and its Roles in Transcription and DNA Repair</i>
Susan J. Laxton	Art History	<i>Book Project: Paris as Gameboard: Ludic Strategies of the Avant-Garde</i>
Weihsin Gui	English	<i>Cold War Cultural Politics in British and Commonwealth Literature, 1956-1992</i>

UC San Diego

Claire L. Adida	Political Science	<i>The Political Implications of Ethnic Ambiguity in Africa</i>
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Rommie E. Amaro	Chemistry-Biochemistry	<i>CompChemBioCAMP: Explore – Discover – Excel: A Diversity and Outreach Program in Computational Chemistry and Biophysics</i>
Saba Bazargan	Philosophy	<i>Toward a Reductive Framework for the Morality of War</i>
Alina Ioana Bucur	Mathematics	<i>Arithmetic Statistics and Multiple Dirichlet Series</i>
Kamalika Chaudhuri	Cmptr Sci & Engrng	<i>Designing Data Analysis Tools with Provable Privacy</i>
Juan Carlos Del Alamo	Mechanical & Aerospace Eng	<i>Clinical And Computational Analysis Of Fluidic Synchrony In Ventricular Filling</i>
Joseph D. Hankins	Anthropology	<i>Residues and Contamination: A Social Ecology of Pollution in Japan</i>
Sara Kaplan	Ethnic Studies	<i>Reproducing Slavery: Blackness, Feminism, and the Politics of Freedom</i>

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Carolyn M. Kurle	Ecology, Behavior & Evolution	<i>Determination of Terrestrial, Anthropogenic Sources of Nearshore Pollution in Coastal California using Stable Nitrogen and Carbon Isotope Analysis</i>
Nancy Kwak	History	<i>Homeownership For All: American Power and the Politics of Housing Aid post-1945</i>
John McMurria	Communication	<i>Citizenship on the Wire: Cable Television and Public Cultures, 1948-1984</i>
Thomas Matthew Medvetz	Sociology	<i>A Socio-biographical Study of David Foster Wallace</i>
Ulrich Friedrich Muller	Chemistry-Biochemistry	<i>Development of Ribozymes to treat Genetic Disorders</i>
Paul Niehaus	Economics	<i>Understanding peer-to-peer investment advice</i>
Francesco Paesani	Chemistry-Biochemistry	<i>CO2 capture in metal-organic frameworks under flue gas conditions: Molecular modeling and simulation</i>

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**Katharina U.
Rosenberger**

Music

Viva Voce - interactive sound and video installation

**Daphne Taylor-
Garcia**

Ethnic Studies

Imagined Continents: Racialized Sexuality, Colonialism and Print Capital

Irina A. Telyukova

Economics

Housing in Retirement: A Cross-Country Analysis

Navtej Singh Toor

Chemistry-Biochemistry

Group II Intron Structure and Function

Kalindi Ann Vora

Ethnic Studies

Life Support: Vital Exchange Between India and the U.S.

Jie Xiang

Elect & Computer Eng

Characterization of High Speed, Low Voltage Nanowire Nanoelectromechanical Field Effect Transistor (NW-NEMFET) with High-k Dielectrics

K. Wayne Yang

Ethnic Studies

Community Cartographies

2012 University of California Hellman Fellows

UCSF

Stacey Anderson	Social and Behavioral Sciences	<i>Tobacco Industry Strategies for Targeting and Retaining Older Female Smokers</i>
Sonia Bonifacio	Pediatrics/Neonatology	<i>Impact of Implementing Neonatal Neurocentral Care on Outcomes After Acute Neurological Illness in Neonates</i>
Christine Dehlendorf	Family and Community Medicine	<i>A Theory-Informed Investigation of Contraceptive Counseling Dynamics</i>
Elvin Hsing Geng	Medicine	<i>Connecting the Dots from Evidence to Practice in HIV/TB Care in East Africa</i>
Sheri Lippman	Medicine/CAPS	<i>Towards a Rigorous Measure and Framework of Community Mobilization</i>
Sabine Mueller	Neurology	<i>Using Mobile Health Platforms to Characterize Long-Term Side Effects in Children with Brain Tumors</i>

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Josette Rivera	Geriatrics	<i>An Observational Study on How and with What Skills Health Professions Students Approach Interprofessional Education</i>
Shomyseh Sanjabi	Gladstone Institute	<i>Mucosal Anti-viral Immune Responses</i>
Catherine Smith	Hematology/Oncology	<i>Investigating FLT3 Activating Mutations in AML</i>
Carolyn Sufrin	Ob/Gyn & Reproductive Sciences	<i>Incarcerated Women and Their Reproductive Lives</i>
Kathleen Tebb	Pediatrics	<i>Health-E You: Effectiveness of an Interactive, Individually Tailored Mobile Health Application to Improve Adolescents Knowledge and Access to Longer Acting Reversible Contraceptives</i>

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UC Santa Barbara

Katie Byl	Electrical & Computer Engineering	<i>Experimental Verification of Tuned-Impedance Methods for Hummingbird-Scale Flapping-Wing Robots</i>
Cenke Xu	Physics	<i>Topological states of matter and Exotic Quantum critical points</i>
Danielle Harlow	Education	<i>Children's Engineering Design Thinking</i>
Christina McMahon	Theater and Dance	<i>Re-Casting Transnationalism through Performance: Theatre Festivals in Cape Verde, Mozambique, and Brazil</i>
Amit Ahuja	Political Science	<i>Building National Armies in Multiethnic States</i>

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UC Santa Cruz

Megan Moodie	Anthropology	<i>Genomic research: benefits and drawbacks</i>
Dejan Milutinović	Applied Mathematics & Statistics	<i>Motion Capturing System for Real-Time Control of Indoor Robots</i>
Ian Garrick-Bethell	Earth & Planetary Sciences	<i>Lunar Impactors: A Low Cost Robotic Mission to Study Lunar Magnetism and Surface Water</i>
Rita Mehta	EE Biology	<i>Assessing the potential importance of the California moray in structuring kelp forest communities around Catalina Island</i>
Irene Lusztig	Film & Digital Media	<i>Lessons for Imminent Motherhood</i>
Shannon Gleeson	Latin American & Latino Studies	<i>Rights in Theory, Rights in Practice: Unpacking the Individual and Institutional Elements of Enforcing Worker Rights</i>

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Mark Massoud

Politics

Law in Conflict: Legal Activism and the Rule of Law in War-afflicted Regions