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**2008 University of California Hellman Fellows**

**UC Berkeley**

<b>Maneesh Agrawala</b>	Electrical Engineering & Computer Science	<i>Design Principles, Algorithms, and Interfaces for Visual Communication</i>
<b>Rodrigo Almeida</b>	Environmental Science, Policy and Management	<i>Disrupting the transmission of insect-borne grapevine pathogens</i>
<b>Geoffrey Bower</b>	Astronomy	<i>The Fly's Eye: Opening a New Window on Fast Radio Transients</i>
<b>Rachel Brem</b>	Institute for the Quantitative Biosciences	<i>Signaling behaviors of the unfolded protein response in aging</i>
<b>Christopher Chang</b>	Chemistry	<i>Revealing Basic Mechanisms of Metal Function in the Brain through Molecular Imaging</i>
<b>Perry Devalpine</b>	Environmental Science, Policy and Management	<i>Estimating predictability of ecological population dynamics</i>

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<b>Michael Deweese</b>	Helen Wills Neuroscience Institute	<i>A rodent model of selective auditory attention</i>
<b>Randi Engle</b>	Education	<i>Framing Learning Contexts to Promote Transfer: An Experimental Study</i>
<b>Samera Esmeir</b>	Rhetoric	<i>A History of Violence</i>
<b>Sean Farhang</b>	Public Policy	<i>Why Does Congress Choose Lawsuits for Regulatory Enforcement?</i>
<b>Daniela Kaufer</b>	Integrative Biology	<i>Rescuing neural stem cells from age-related silencing</i>
<b>Sanjay Kumar</b>	Bioengineering	<i>Engineering molecular and cellular function through unstructured protein domains</i>
<b>Seung-Wuk Lee</b>	Bioengineering	<i>Development of Novel Drug Delivery Vehicles Using Genetically Engineered Viruses</i>

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<b>Myra Melford</b>	Music	<i>Portable World</i>
<b>Mohammad Mofrad</b>	Bioengineering	<i>Multiscale Models of the Bicuspid Aortic Valve: Linking Whole Organ to Cells</i>
<b>Carlos Norena</b>	History	<i>Mapping Urbanization in the Roman Empire</i>
<b>Leigh Raiford</b>	African American Studies	<i>Imprisoned in a Luminous Glare: Photography and the African American Freedom Struggle</i>
<b>Kathleen Ryan</b>	Plant & Microbial Biology	<i>Molecular Mechanisms of Regulated Proteolysis in the Bacterial Cell Cycle</i>
<b>Richmond Sarpong</b>	Chemistry	<i>Alleviating the Environmental and Economic Cost of Synthesizing Complex Molecules to Combat Lung Cancer</i>
<b>Sanjit Seshia</b>	Electrical Engineering & Computer Science	<i>Provably Error-Resilient Computing at Low Cost</i>

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<b>Michael Silver</b>	Helen Wills Neuroscience Institute	<i>Pharmacological studies of spatial integration and visual perception in macular degeneration patients</i>
<b>Russell Vance</b>	Molecular & Cell Biology	<i>How are infections detected? A novel immune pathway for sensing bacterial pathogens</i>
<b>Qing Zhong</b>	Molecular & Cell Biology	<i>Degradation of Organelles</i>
<b>UC Davis</b>		
<b>Simon Chan</b>	Plant Biology	<i>Quantitative Analysis of Centromere Structure in Arabidopsis (deceased)</i>
<b>Lijuan Dawn Cheng</b>	Civil and Env. Engineering	<i>Civil and Environmental Engineering, "Mechanism-based fiber Composite Bistable Structures and its Applications to Deficient Bridge Infrastructure"</i>

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<b>Robert Guy</b>	Mathematics	<i>Computational Modeling of Intracellular Flow During Amoebid Movement</i>
<b>Fawz George Haj</b>	Nutrition	<i>Role of Protein-Tyrosine Phosphatase 1B in Diabetes</i>
<b>Tessa Hill</b>	Geology	<i>The Oceanic Response to Anthropogenic Climate Change</i>
<b>Victoria Langland</b>	History	<i>Speaking of Flowers: Student Movements and Collective Memory in Military Brazil</i>
<b>Luz Mena</b>	Women and Gender Studies	<i>To Shape a City: Free Blacks in 19th Century Havana - left Davis</i>
<b>Colin Milburn</b>	English	<i>MondoNano: Fun and Games in the World of Digital Matter</i>
<b>W. Flagg Miller</b>	Religious Studies	<i>Al Qaeda's Debated Origins: Evidence from Osama Bin Laden's Audiocassette Library</i>

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<b>Cecilia Tsu</b>	History	<i>Asian Migration and the Making of Race, Gender and Agriculture in the Santa Clara Valley, 1880-1940</i>
<b>Julie Wyman</b>	Technocultural Studies	<i>Strong: Expanding Notions of the Large Body and the Documentary Form</i>
<b>Soichiro Yamada</b>	Biomedical Engineering	<i>The Molecular Mechanisms of Cancer Cell Adhesion</i>
<b>Karen Zito</b>	Neurobiology, Physiology and Behavior	<i>Neurobiology, physiology and behavior, "Mechanisms of Dendritic Spine Elimination"</i>
<b>UC San Diego</b>		
<b>Morana Alac</b>	Communication	<i>Highly Efficient Semiconductor Nanowire Array Solar Cells</i>

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**Gaurav Arya**

Nanoengineering

*Elucidating the Mechanisms of Histone Modifications in Gene Regulation through Advanced Computational Methods*

**Jeeyang Baum**

Political Science

*Delegation Dilemmas: Administrative Procedural Reform and Political Control in East Asia*

**Dennis Childs**

Literature

*Formations of Neoslavery: The Cultures and Politics of the American Carceral State*

**Liam Clancy**

Theatre & Dance

The Hybrid Authorship Project Presents "*The Merry Chase, or, The Recurring Synthesis of an Illusion*"

**Alan Daly**

Education Studies

*Understanding Social Network Structure to Understand Change Strategy*

**Scott Desposato**

Political Science

*Negative Campaigning: Causes and Effects for New Democracies*

**Ricardo Dominguez**

Visual Arts

*Disturbances: Tales of Gestures, Code, and Mayan Technologies (A Book)*

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<b>Catherine Gere</b>	History	<i>The Utilitarian Self: Medicine, Morals and the Brain in Nineteenth Century Britain</i>
<b>Monte Johnson</b>	Philosophy	<i>Reconstructing Aristotle's Lost Work: The Exhortation to Philosophy (Protrepticus)</i>
<b>Dayna Kalleres</b>	Literature	<i>Conjuring Demons: Possession and Christian Exorcism in the Late Antique City"</i>
<b>Jan Kleissl</b>	Mechanical & Aerospace Eng	<i>Computational Fluid Mechanics and Radiative Modeling of Urban Heat Islands Using Wireless Sensor Network Data</i>
<b>Margaret Loose</b>	Literature	<i>The Role of Literary Form in the Chartist Demand for the Vote</i>
<b>Keith McNeal</b>	Anthropology	<i>Ecstasy in Exile: Spirits and Transculturation in the Southern Caribbean</i>
<b>Gentry Patrick</b>	Neurobiology	<i>Regulation of AMPA Receptor Trafficking by the Nedd4-1 Ubiquitin Ligase</i>



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**Curt Schurgers**

Elect & Computer Eng

*Adaptive Radio Protocols for Emergency Response*

**Jacques Verstraete**

Mathematics

*Extremal and probabilistic combinatorics*

**Hector Viadiu**

Chemistry-Biochemistry

*Study of MDM2 regulation of the tumor suppressor p53 by electron microscopy*

**Daniel Widener**

History

*The Korean War: An African American History*

**Elina Zuniga**

Molecular Biology

*Molecular Determinants of Antigen Presentation During Acute and Chronic Viral Infections*

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**UCSF**

<b>Dorie Apollonio</b>	Clinical Pharmacy	<i>Tobacco Industry Use of Allies in Political Advocacy</i>
<b>Louise Aronson</b>	Geriatrics	<i>Developing a Unique and Innovative Program in Medical Humanities for UCSF</i>
<b>Stephen Bent</b>	General Internal Medicine	<i>Safety and Efficacy of Complementary and Alternative Medicine for Autism</i>
<b>Helge Eilers</b>	Anesthesia	<i>Anesthetic Effects on Peripheral Nociceptors</i>
<b>Jade Hiramoto</b>	Surgery	<i>The Hematological and Renal Effects of Endovascular Thoracoabdominal Aortic Aneurysm Repair</i>
<b>Audrey Lyndon</b>	Family Health Care Nursing	<i>Agency for Safety Among Community Providers of Inpatient Maternity Care</i>

**2008 University of California Hellman Fellows**

<b>Doruk Ozgediz</b>	Surgery	<i>Surgery and Public Health: An Innovative Multi-Disciplinary UCSF Partnership In Uganda</i>
<b>Prasunthi Ramanujam (now Govindarajan)</b>	Emergency Medicine	<i>Accuracy of Prehospital Triage and Acute Stroke Outcomes in a Regionalized Stroke System</i>
<b>Hilary Seligman</b>	General Internal Medicine	<i>Clinical Significance of Food Insecurity Among Patients with Diabetes</i>
<b>Rebecca Sudore</b>	Geriatrics	<i>Enhancing Advance Care Planning in Diverse Elders with Limited Literacy</i>
<b>Stephanie Tache</b>	Family & Community Medicine	<i>Translating the "Prevent Heart Attacks and Stroke Everyday" (PHASE) Program from Kaiser to San Francisco Safety Net Clinics: A Focus on the Role of Medical Assistants</i>
<b>Sheri Weiser</b>	MED-SFGH-Positive Health Program (PHP)	<i>The Impact of Food Insecurity on HIV Outcomes and Sexual Risk Behavior in Uganda</i>
<b>Brie Williams</b>	Geriatrics	<i>Assessing and Improving Health Outcomes Among Incarcerated Older Adults</i>

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**Janet Wojcicki**

Pediatrics / Gastroenterology

*Maternal Depression and Child Obesity in a Latino Cohort*

*Proximity of Grocery Stores, Fast Food Outlets, Parks and Girls' Diet and Physical Activity: An Innovative Application of Geographic Information Systems Technology*

**Irene Yen**

General Internal Medicine

**UC Santa  
Barbara**

**Everett Lipman**

Physics

*Monitoring the Movement and Mechanism of a Molecular Motor*

**John Yun**

Education

*Narrowing Opportunities: The Project of High Stakes Testing and Noncognitive Outcomes in Education*

**James Roney**

Psychological and Brain Sciences

*Between-Cycle Influences on Mating Psychology*

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<b>John Hajda</b>	Music	<i>The Relationship of Musical and Visual Elements in Film</i>
<b>Roberto Strongman</b>	Black Studies	<i>Black Atlantic Transcorporealities: Religious Representations of the Queered Body in Candomblé, Lucumí and Vodou</i>
<b>Tod Kippin</b>	Psychological and Brain Sciences	<i>Consequences of ablation of Pubertal and Adult Neurogenesis to Brain Maturation and Function</i>
<b>Gaye Theresa Johnson</b>	Black Studies	<i>Sobre Las Olas: A Mexican Genesis in the Borderlands Jazz</i>
<b>Russell Samolsky</b>	English	<i>Apocalyptic Futures: Marked Bodies and the Violence of the Text in Modern Culture" and "Killing Dogs: Art and the Afterlife of Animals"</i>
<b>Suk-Young Kim</b>	Theater and Dance	<i>Reconstructing North Korean Propaganda</i>
<b>Heather Stoll</b>	Political Science	<i>Society, Political Institutions, and Political Competition</i>

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**Juan-Pablo Lupi**

Spanish and Portuguese

*José Lezama Lima and the Aesthetics of Difficulty*

**Miriam Wattles**

History of Art and Architecture

*Images at Play: Five Episodes in Heterodox Japanese Visuality, 1680-1930*

**Racha El Omari**

Religious Studies

*Abu l-Qsiūm al-Ka'bī and the Baghdādī Mu'tazilite School*