

2022 University of California Hellman Fellows

UC Berkeley

Aneja Aneja	Law	<i>The Roots of Racial Integration in the Federal Government Workforce: Evidence from the Postal Service</i>
Daniel Kwabena Bediako	Chemistry	<i>Operando four-dimensional scanning transmission electron microscopy of atomically thin ferroelectrics</i>
Gasper Begus	Linguistics	<i>Deep learning, speech, and society</i>
Ryan Brutger	Political Science	<i>Domestic Support for International Cooperation and Compromise</i>
Sydnee Caldwell	Business	<i>Information and Monopsony Power in the Labor Market</i>

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Emily Cooper	Optometry	<i>A Bayesian model of visual impairment</i>
Bethanie Edwards	Earth & Planetary Science	<i>Building a model system to assess phytoplankton community dynamics and carbon cycling in the surface ocean</i>
Jan Engelmann	Psychology	<i>The Origins of Rational Public Discourse: How Children Learn to Give and Respond to Reasons in Three Diverse Societies</i>
Rebecca Goldstein	Law	<i>Electing Punishment, Electing Reform</i>
Desmond Jagmohan	Political Science	<i>Slavery and Subversion: The Political Thought of Harriet Jacobs</i>
Vasugi Kailasam	South & Southeast Asian Studies	<i>Tamil Realisms: Reading the Global Tamil Novel</i>

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Angjoo Kanazawa	Electrical Engineering & Computer Sciences	<i>Capturing the Non-Rigid World: the New “Immersive Video” of 21st Century</i>
Harriet Lau	Earth & Planetary Science	<i>Bridging Solid Earth Geophysics to Earth’s Climate</i>
Samantha Lewis	Molecular & Cell Biology	<i>Exploring mitochondrial DNA replication proteins in functional assemblies in vivo</i>
Mahmud Ayesha	Demography	<i>Climate shocks and population dynamics: Characterizing climate-driven population migration and displacement patterns in Bangladesh</i>
Salar Mamani	Ethnic Studies	<i>Transgender before Hormones</i>
Nasser Meerkhan	Spanish & Portuguese	<i>From Muses to Makers: Subterfuging Genre in the Writings of Medieval Iberian Women</i>

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Eunyong Park	Molecular & Cell Biology	<i>How do plants make chloroplasts? —mechanistic study of chloroplast protein import</i>
Bernadette Perez	History	<i>Before the Sun Rises: The Violence of American Sugar</i>
Karthik Shekhar	Chemical and Biomolecular Engineering	<i>Spontaneous activity-dependent patterning of neuronal diversity in the developing brain</i>
Benjamin Williams	Plant and Microbial Biology	<i>Defining the epigenetic basis of plant regeneration</i>
Clancy Wilmott	Geography	<i>Reorienting the Map: Alternative Cartographies for Alternative Futures</i>
Zeyu Zheng	Industrial Engineering and Operations Research	<i>Enhancing Algorithm Fairness for Housing Subsidy Programs</i>

2022 University of California Hellman Fellows

UC Davis

Maciel Hernandez	Human Ecology	<i>In the offing: Law-Founding Violence and the Moving Image of Lynching</i>
Haven Kiers	Human Ecology	<i>The Seed Pile Project: Identifying Viable Native Species for Urban Seed Dispersal Through Community Science</i>
Emily Meineke	Entomology/Nematology	<i>Assessing Preservation of Chemical Compounds in Pressed Plants</i>
Rachel Berhard	Political Science	<i>Appearance-Based Discrimination in Politics</i>

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Erin Gray	English	<i>In the offing: Law-Founding Violence and the Moving Image of Lynching</i>
Wang Liao	Communication	<i>Artificial Intelligence Stereotypes and Social Influence Potentials</i>
Emily Morgan	Linguistics	<i>Modeling how language learning by individuals leads to language evolution over time</i>
Fatima Mojaddedi	Anthropology	<i>Shelter for the Night: Reason and Reckoning in Afghanistan</i>
José Juan Pérez	History	<i>Monarchies in the Americas: Haiti, Mexico, Brazil, and the Struggle for Legitimacy in the Nineteenth Century</i>
Michael Singh	Chicano & Chicano Studies	<i>Exploring Gender and Sexuality with Latino Male Teachers</i>

2022 University of California Hellman Fellows

Hannah Tierney

Philosophy

Experimental Philosophy Lab

Ben Weber

African American and
African Studies

The Global Reach of Mass Incarceration

UC Irvine

Al-Bulushi, Samar Mussa

Anthropology

War-Making as Worldmaking

Chernyak, Nadia

Cognitive Sciences

The Development and Early Socialization of Wealth Concepts in Early Childhood

2022 University of California Hellman Fellows

Egoh, Benis	Earth System Science	<i>Impact of Climate Change on Ecosystems Services</i>
Johnson, Ariyan	Dance	<i>Looking for Revelations</i>
Shen, Yanning	Electrical Engineering and Computer Sciences	<i>Understanding and Mitigating Bias in Machine Learning over Networks</i>
Shi, Xiaoyu	Developmental & Cell Biology	<i>Uncover Cellular Mechanisms of Aging Using Super-Resolution Microscopy</i>
Thompson-Peer, Katherine	Developmental & Cell Biology	<i>Identifying Genes Driving Neuron Regeneration After Injury Using Single Cell RNA-seq</i>

2022 University of California Hellman Fellows

UCLA

Omid Abari	Computer Science Cesar E. Chavez Department of Chicana/o and Central American Studies	<i>The future of farming via transformed RFID sensors</i>
Karina Alma		<i>(U.S.) Central American Poetics of Countermemory</i>
Bridget Callaghan	Psychology	<i>Do interoceptive changes during pregnancy relate to maternal postnatal mental health?</i>
Jenna Caravello	Design Media Arts	<i>Monolith</i>

2022 University of California Hellman Fellows

Zirwat Chowdhury	Art History	<i>Enlightened Relations: Eighteenth-Century British Art's Imperial Forms</i>
David Clewett	Psychology	<i>Emotional states scaffold the formation of episodic memories</i>
Tuan Do	Physics and Astronomy	<i>Machine learning in astronomy: science in a data driven universe</i>
Daniel Haanwinckel Junqueira	Economics	<i>Search frictions and advertising in online labor markets</i>
Jennifer Kao	Management	<i>Increasing Transparency in Health Care: Evidence from Clinical Trial Results Reporting</i>
Gina Konstantopoulos	Near Eastern Languages and Cultures	<i>Demons, Fear, and the Uncanny in Mesopotamia</i>

2022 University of California Hellman Fellows

Yen-Chih Lin	Mechanical and Aerospace Engineering	<i>Physiologically Relevant 3D Brain Tissue Models for Therapeutic Development</i>
Juliana Londono-Velez	Economics	<i>How to Reveal 21% of GDP in Hidden Assets: Evidence from Argentina's Tax Amnesties</i>
Huijun Mai	Asian Languages and Cultures	<i>The Poet in the Kitchen: The Song (960–1279) Epicure and the Birth of a Gustatory Epistemology</i>
Anna Markowitz	Education	<i>Rebuilding Child Care After COVID: Understanding Teacher Wellbeing, Teacher Turnover, and Pathways to Recovery</i>
Kalani Michell	European Languages and Transcultural Studies	<i>All in the Same Box: Unhinging Audiovisual Media in the 1960s and 1970s (chapter titles: "Taking Down Pictures" and "Film Pitches")</i>
Lauren Ng	Psychology	<i>PTSD Treatment for Conflict-Affected Communities in Ethiopia</i>

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Hyun Suk Park	Asian Languages and Cultures	<i>The Government Courtesan: Status, Gender, and Performance in Choson Korea, 1392–1910</i>
Pearl Quijada	Integrative Biology and Physiology	<i>Pericytes regulate angiogenesis during cardiac stress</i>
Auyon Siddiq	Management	<i>Optimization Models for Discovering Causal Structures in Data</i>
Daniel Thompson	Political Science	<i>Administering Elections in a Polarized America</i>

2022 University of California Hellman Fellows

UC Merced

Stephanie Canizales	Sociology	<i>Opportunities for Youth: Reducing Inequality among Unaccompanied Child Migrants across California</i>
Ricardo Pinto de Castro	Mechanical Engineering	<i>Sustainable Power Conversion for Electric Vehicles</i>
Jeanette Cobian-Iniguez	Mechanical Engineering	<i>Towards basic understanding of wildfire ignition and smoldering-to-flaming transition: the role of particle, fuel, and wind properties</i>

2022 University of California Hellman Fellows

UC Riverside

Elizabeth Berger	Anthropology	<i>Climate Change and Violence in the Chinese Bronze Age</i>
Diogo Ferrari	Political Science	<i>The Causes of Support for Authoritarian Populism</i>
Dana Kaufman	Music	<i>Opera Kardashian - A Production with Synchrony</i>
Jasmin Young	Ethnic Studies	<i>Black Power Digital Archive</i>

2022 University of California Hellman Fellows

Heyrim Cho	Mathematics	<i>Modeling heterogeneous cell state dynamics from single-cell RNA sequencing data and its application to oncology</i>
Vasileios Christopoulos	Bioengineering	<i>Understanding the mechanisms of spinal cord stimulation for chronic pain treatment</i>
Elaheh Sadredini	Computer Science and Engineering	<i>Enabling Energy-Efficient and High Performance Crypto Engine with In-Cache Computing</i>

2022 University of California Hellman Fellows

UC San Diego

Theresa Jean Ambo	Education Studies	<i>Decolonizing Institutional Relationships: Native Nations and the University of California</i>
Manuel Shvartzberg Carrió	Urban Studies and Planning	<i>Inland Empire: Settler Colonialism, Modern Architecture and the Rise of American Hegemony</i>
Maria Carreri	School of Global Policy & Strategy	<i>Municipal Reform and the Political Representation and Socioeconomic Fortune of Minority Voters. Evidence from US Cities in the Progressive Era</i>
Alexandra Jazz Dickenson	Cell & Developmental Biology	<i>Investigating stem cell regulation using chemical imaging</i>

2022 University of California Hellman Fellows

Matthew Leslie	Music	<i>The Politics of Queer Performance in Contemporary Cuba</i>
Morgan Levy	Scripps Institution of Oceanography	<i>Water-sustainable urban greening for climate resilience</i>
Shaowei Li	Chemistry & Biochemistry	<i>Development and Implementation of a Hyperdimensional Scanning Tunneling Microscope</i>
Andrea Mendoza	Literature	<i>Transpacific Nonencounters: Confronting Racism, Modernity and the "Ends" of Area</i>
Diana Rennison	Ecology, Behavior & Evolution	<i>Determining the genetic basis of natural variation in vertebrate lifespan</i>
Rose Yu	Computer Science & Engineering	<i>Physics-Guided Deep Learning for Real-Time Disease Modeling</i>

2022 University of California Hellman Fellows

Ying Zhu

Economics

Nonasymptotic analyses and their implications to applied economics, industrial organization

UC San Francisco

Paola Betancur

Radiation Oncology

A Genomic Insertion Marker of Poor Breast Cancer Survival for Western Europeans Latino and African American Populations

Nadia Diamond-Smith

Global Health Sciences

Prevalence, causes, and impact of elimination diets on breastfeeding in the US, and associated racial disparities

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Deborah Karasek	Obstetrics and Gynecology	<i>Examining economic policy to advance maternal health equity</i>
Marianna Kong	Family and Community Medicine	<i>Telehealth equity in video visits: Disparities among non-English speaking patients</i>
Alexander J. Smith	Medicine	<i>The Tea House Series: Developing, Implementing, and Evaluating An Antiracist Education Program</i>
Yalda Sharhram	Ophthalmology	<i>Imaging accumulation and clearance of CSF solutes in the retina</i>
Ariana Thompson-Lastad	Osher Center for Integrative Medicine	<i>Comprehensive Postpartum Care Models: A Pilot Qualitative Study</i>

2022 University of California Hellman Fellows

UC Santa Barbara

Brandon Green	Chemistry and Biochemistry	<i>Thiyl radical control in enzyme catalysis</i>
Kai Thaler	Global and International Studies	<i>Repertoires of Protest and Repression in the 21st Century: Enduring Histories and Evolving Tactics</i>
Luo Xiao	Physics	<i>Towards Building a Novel Detector to Solve the Neutrino Mass Puzzle</i>
Gu Mengyang	Statistics & Applied Probability	<i>Faithful prediction and uncertainty quantification for physical systems with a high-dimensional input space</i>

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Jessica Santana	Engineering, Technology Management Program	<i>Data Repository for the Computational Study of Entrepreneurship</i>
Sui Tang	Mathematics	<i>1/3 Bridging interacting particle systems with data science via machine learning Mathematical foundation and applications to ecology and epidemiology</i>

UC Santa Cruz

Yasmeen Daifallah	Politics	<i>Thinking Past Islam and the West: Theorizing Politics in Contemporary Arab Thought</i>
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Roberto de Roock	Education	<i>Educational Enclosures and the Digital Divide</i>
Caitlin "Katie" Keliiaa	Feminist Studies	<i>Three related projects</i>
Shaheen Sikander	Molecular, Cell & Developmental Biology	<i>Elucidating long-term pregnancy induced changes that confer protection against breast cancer</i>
Maywa Montenegro	Environmental Studies	<i>Can CRISPR Bring Diversity Back Into Food?</i>
Aiming Yan	Physics	<i>Understanding and tailoring magnetism in atomically thin two dimensional materials</i>
Zehang "Richard" Li	Statistics	<i>Towards Adaptive Verbal Autopsy Survey Design</i>