

2021 University of California Hellman Fellows

UC Berkeley

Zakaria Al Balushi	Materials Science and Engineering	<i>Designing Scalable Topological Qubits for Quantum Computing</i>
Abbye Atkinson	Law	<i>The Racial Origins of American Bankruptcy Restrictions</i>
Isaac Bleaman	Linguistics	<i>Documenting the linguistic diversity of Yiddish-speaking Holocaust survivors</i>
Tolani Britton	Graduate School of Education	<i>Postsecondary Educational Trajectories of Formerly Incarcerated Persons</i>
Carmine-Emanuele Cella	Music	<i>Understanding and modelling music timbre</i>

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Desiree Fields	Geography	<i>Archive of Urban Futures</i>
Brandi Summers	Geography	<i>Archive of Urban Futures</i>
Mark Fleming	School of Public Health	<i>Aligning systems of poverty governance in California: Health care, social services, and criminal justice</i>
Daena Funahashi	Anthropology	<i>Authority Under Erasure: Re-constituting the Constitution in Thailand</i>
Yangnan Gu	Plant and Microbial Biology	<i>Linking abnormal cell proliferation with autonomous death: a tumor-resistance strategy offered by plants</i>
Kenyatta AC Hinkle	Art Practice	<i>THEY</i>

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Drew Jacoby-senghor	Haas School of Business	<i>Effect of Diversity on Ethical Decision-Making</i>
Armando Lara-millan	Sociology	<i>The Rise of Chronic Illness Billing</i>
Andrew Leong	English	<i>Reviving Early Japanese American Drama</i>
Simo Makiharju	Mechanical Engineering	<i>Measurement of 3D velocity field in optically opaque media</i>
Christopher Martin	Integrative Biology	<i>Diabolical survival of critically endangered Mojave Desert pupfishes and the potential for genetic restoration</i>
Priya Moorjani	Molecular and Cell Biology	<i>Genomic Insights into Human Adaptation and Health</i>

2021 University of California Hellman Fellows

**Courtney Desiree
Morris**

Gender and Women's Studies

Mossville: Race, Memory, Ecology

Samuel Pimentel

Statistics

Joint treatment-outcome variable importance in observational study design

Raluca Scarlat

Nuclear Engineering

The Relationship between Acidity of Molten Salts and Their Properties

Rebecca Tarvin

Integrative Biology

Evolving toxin-sequestering fruit flies

Sarah Vaughn

Anthropology

The Aesthetics of Corporate Environmentalism

Chunyan Yang

Graduate School of Education

Influence of Anti-Asian Discrimination and Violence on Asian American Teachers' Wellbeing and Teacher Workforce: A Mixed-method Longitudinal Study

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Michael Zuerch

Chemistry

Coherent manipulation and ultrafast control of exciton-magnon-phonon interaction in quasi-two-dimensional antiferromagnets

UC Davis

Maria Chondronikola

Nutrition

The role of the thermogenic adipose tissue in cancer cachexia

Christine Diepenbrock

Plant Sciences

Plant breeding for improved human nutrition: an end-to-end methodological framework

Tiffany Lowe-Power

Plant Pathology

A genetic map of a plant pathogen's life cycle

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Sascha C.T.	Environmental Toxicology	<i>UC DECI - An integrative transporter database for drug and environmental chemical interactions</i>
Matthew Ellis	Chemical Engineering	<i>Deep Learning Enhanced Grey-box Modeling for Buildings</i>
Maureen Kinyua	Civil and Environmental Engineering	<i>Organic Waste Infrastructure for Nutrient and Energy Recovery; Capacity Analysis and Road Map</i>
Harishankar Manikantan	Chemical Engineering	<i>Simulating Neurovascular Polymer Dynamics: A New Paradigm in Alzheimer's Research</i>
Priya Shah	Chemical Engineering	<i>Light Activated Gene Expression for Biomanufacturing</i>
Beth Ferguson	Design	<i>Environmental Design for Micromobility and Public Transit</i>

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Martin Fraas	Mathematics	<i>Microscopic Theory of Anyons in the Fractional Quantum Hall Effect</i>
Gozde Boncu-Berk	Design	<i>CalmWear: Sensory Smart Clothing</i>
Diana Moreira	Economics	<i>The Costs and Benefits of Meritocracy: Evidence</i>
Santiago Perez	Economics	<i>The Costs and Benefits of Meritocracy: Evidence</i>
Clarissa Rojas	Chicanx Studies	<i>And still we love: b/ordering violence on the U.S. Mexico border</i>
Lauren Young	Political Science	<i>A Global Test of the Subnational Targeting and Effects of State Repression</i>

2021 University of California Hellman Fellows

UC Irvine

Adeyemi Adeleye	Civil & Environmental Engineering	<i>Remediation of Metal-Contaminated Agricultural Soils Using Nanotechnology and Machine Learning</i>
Swethaa Ballakrishnen	School of Law	<i>Rethinking Inclusion: Diversity Performance(s) in Legal Institutions and Pipelines</i>
Vibhuti Ramachandran	Global and International Studies	<i>Producing the Trafficked Victim: Law, Prostitution, and NGO Intervention in India</i>
Judit Romhanyi	Physics & Astronomy	<i>Z2 or Not Z2? Topological Protection in Quantum Magnets</i>
Christopher Seeds	Criminology, Law & Society	<i>Care in the End: Understanding Incarcerated People's Decisions about End of Life and Best Practices for Prison Hospice</i>

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Celia Symons	Ecology and Evolutionary Biology	<i>Resilience to Heatwaves: The Consequences of Multiple and Interacting Forms of Thermal Variability</i>
Adriana Villavicencio	School of Education	<i>Disrupting Racism in Schools: Studying the Outcomes of a Racial Justice Program</i>
UCLA		
LaToya Baldwin Clark	Law	<i>Boosting Ahead: Private Money in Public Schools</i>
Idan Blank	Psychology/Linguistics	<i>The Relationship Between Word Meanings and Non-Linguistic Knowledge of Concepts</i>

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Jun Chen	Bioengineering	<i>A Textile-Based Sensing System for Obstructive Sleep Apnea Diagnosis</i>
Artur Davoyan	Mechanical and Aerospace Engineering	<i>Transition Metal Dichalcogenide Optoelectronic Circuits for Future Telecommunications</i>
Ugo Edu	African American Studies	<i>Cosmetic Body Modifications in Nigeria: From Fattening Rooms to Creams and Surgery</i>
Carissa Eisler	Chemical and Biomolecular Engineering	<i>Realizing High Performance, Low Cost Solar Concentrators via the Directional Luminescence of Surface-Sensitive Nanocrystals</i>
Ashvin Gandhi	Management	<i>Minimum Wages and Employment Composition</i>
Nandita Garud	Ecology and Evolutionary Biology/Human Genetics	<i>Uncovering the Landscape of Mutations in the Human Gut Microbiome</i>

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Ju Hui Judy Han	Gender Studies	<i>Out of Order: Queer Feminist Politics in Korea and the Korean Diaspora</i>
Vishal Jugdeo	Art	<i>“A Trembling Field of Glass”</i>
Miriam Marlier	Environmental Health Sciences	<i>Evaluating the Use of Prescribed Burning to Reduce Wildfire Pollution in California</i>
Karen McKinnon	Statistics/Institute of the Environment and Sustainability	<i>Climate Change and Marine Heat Waves</i>
Eric Min	Political Science	<i>Negotiations in War</i>
Sobukwe Odinga	African American Studies	<i>Hostages to Fortune: Deceit, Diplomacy, and US-Africa Security Politics</i>

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Miriam Posner	Information Studies	<i>“Seeing Like a Supply Chain: The Hidden Life of Logistics”</i>
Giovanni Rossi	Sociology	<i>Understanding Facial Expression as a Tool for Social Action</i>
Melissa Sharpe	Psychology	<i>The Effect of Positive Experience on the Encoding of Future Fear Memories</i>
Emily Weisburst	Public Policy	<i>“Do Police Make Too Many Arrests?” An Examination of the Potential Impacts of Reductions in Police Enforcement</i>
Sherry Jueyu Wu	Management	<i>Participatory Budgeting: A Field Experiment in China</i>
Junko Yamazaki	Asian Languages and Cultures	<i>Unresolved Dissonance, Unfamiliar Affect in Postwar Japanese Cinema</i>

2021 University of California Hellman Fellows

UC Merced

Son Nguyen	Chemistry and Biochemistry	<i>Harnessing Hot Carriers from Metallic Nanoparticles for Sustainable Catalysis</i>
Yehuda Sharim	Global Art Studies	<i>Experiments in Freedom: Central Valley Portraits in 21st Century Crisis</i>

UC Riverside

Mona Eskandari	Mechanical Engineering	<i>An In Vivo Animal Study to Investigate a Novel Measure of Lung Function</i>
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Rengin Firat	Sociology	<i>Ethno-Racial Disparities of Covid-19 Related Stress and Mental Health Problems: A Community Engaged Approach</i>
Timothy Su	Chemistry	<i>Bottom-Up Synthesis of Nanoscale Silicon Electronics</i>
Antoine Lentacker	History	<i>Signs and Substances: Dispensing Medicine in Modern Europe</i>
Wei Liu	Earth and Planetary Sciences	<i>Physical Mechanisms and Decadal Predictability of Marine</i>
Myisha Cherry	Philosophy	<i>The Failures of Forgiveness</i>

2021 University of California Hellman Fellows

UC San Diego

Pamela Ban	Political Science	<i>Information Sharing and the Use of Evidence in Congressional Policymaking</i>
Danielle Dean	Visual Arts	<i>Amazon</i>
Julia Michelle Diaz	Sio Department	<i>Speaking of Reactive Oxygen Species: How do marine microalgae get the message through?</i>
Lalit Deshmukh	Chemistry And Biochemistry	<i>Mechanism of Phosphorylation-mediated Dissolution of Amyloid Fibrils of Human ALIX</i>
Michael Frazier	Mechanical & Aerospace Engineering	<i>Mechanical Chemistry: Pattern Formation in Active Mechanical Metamaterials</i>

2021 University of California Hellman Fellows

Teevrat Garg	Global Policy And Strategy	<i>Adoption and the Use of Smart Plugs for Demand Side Management in India</i>
Erin Hill	Communication	<i>Staying in the Room: Marginalized Workers, Creative Collaborative Labor, and "Pipeline Problems" in Film & TV Development's Elite Creative Spaces</i>
Caroline Jack	Communication	<i>Social Imaginaries of Persuasion: US Promotional Cultures in the Twentieth Century</i>
Byung Chu Kang	Anthropology	<i>White Asians Wanted: Queer Racialization in Thailand</i>
Guarav Khanna	Global Policy And Strategy	<i>Cultural Barriers, Transportation and Internal Trade in Developing Countries</i>
Tania Morimoto	Mechanical & Aerospace Engineering	<i>Soft Growing Robots for Interventions Along Curved Trajectories in the Brain</i>

2021 University of California Hellman Fellows

Shaista Patel	Ethnic Studies	<i>Buffalo Archives: Examining Transnational Relationalities of Indigeneities and Caste</i>
Michael William Perry	Cell & Developmental Biology	<i>Evolutionary Mechanisms Adapting Neural Circuit Structure and Function to Mosquito Visual Ecology</i>
Jade Power	Theatre & Dance	<i>Habla!: Speaking Bodies in Latinx Dance and Performance</i>
Jordan Rose	Visual Arts	<i>The Spell of the Barricade: Art and Politics in France, 1830-1852</i>
Nisarq Shah	Nanoengineering	<i>Engineering Immune Regulation in Juvenile Idiopathic Arthritis</i>
Lingyan Shi	Bioengineering	<i>DOM-SRS Imaging for Studying Diet-Regulated Lipid Metabolism in Aging Related Disease</i>

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April Sutton	Sociology	<i>Education and Financial Health Inequalities at the Intersection of Gender, Race and Ethnicity</i>
Yi-Zhuang You	Physics	<i>Classical Shadow Tomography with Shallow Quantum Circuits</i>
UC San Francisco		
Beth Apsel Winger	Pediatrics	<i>Pharmacokinetically Driven, Individualized Dosing of Deferasirox in Transfusion Dependent Thalassemia</i>
Tasce Bongiovanni	Surgery	<i>Postoperative Pain Medication Prescribing for Surgical Patients</i>

2021 University of California Hellman Fellows

Julien Cobert	Anesthesia and Perioperative Care	<i>Quantifying Provider Opinion in the ICU and its Role in Prognosis and Provider Uncertainty and Distress</i>
Taressa Frazee	Family and Community Medicine	<i>Role of value-based care contracts in facilitating virtual primary care</i>
Orlando Harris	Community Health Systems	<i>“Our Lives Matter”: Exploring the Impact of COVID-19 on Black/African American and Latino Sexual Minority Men Access to HIV Prevention and Treatment Services, and Vaccination Acceptance and Uptake</i>
Kelsey Holt	Family and Community Medicine	<i>Improving measurement of contraceptive autonomy to advance reproductive health, rights, and well-being</i>
Li-Wen Huang	Medicine	<i>Understanding How to Optimize the Teleoncology Experience for Cognitively Impaired Patients</i>
Jennifer James	Institute for Health and Aging	<i>Community engaged research on aging, health, and incarceration: barriers, facilitators, and implementation strategies</i>

2021 University of California Hellman Fellows

Solmaz Manuel	Anesthesia and Perioperative Care	<i>Uncovering Language-Based Disparities in Perioperative Pain Assessment and Management</i>
Elphege Nora	Cardiovascular Research Institute	<i>How does DNA looping regulate gene activity?</i>
Aksharananda Rambachan	Medicine	<i>Racial, Ethnic, and Language-Based Disparities in the Inpatient Assessment and Management of Acute and Chronic Pain</i>
Shannon Smith-Bernardin	Social and Behavioral Sciences	<i>Evaluation of paramedic decision making in triage and transport of adults with acute uncomplicated alcohol intoxication to the emergency department versus sobering center</i>

2021 University of California Hellman Fellows

**UC Santa
Barbara**

Heather Badamo	Art history	<i>Arts of Encounter: St. George in the Global Middle Ages & Coptic Arts of Memory</i>
Janet Bourne	Musicology	<i>Beethoven Speaks, Who Listens? Experience, Cognition, and Musical Meaning</i>
John Harter	Entomology	<i>Exploring Entanglement in Quantum Spin Liquids</i>
Morgan Raven	Gelogy	<i>Organic Sulfur and the Search for Early and Extraterrestrial Life</i>
Terrell Winder	Sociology	<i>Understanding Financial Literacy and Perceptions of Education Debt Among U.S. College-Bound Students and their Parents</i>

2021 University of California Hellman Fellows

Hangping Xu	Eastern	<i>Broken Bodies as Agents: Disability Aesthetics and Politics in Modern Chinese Culture and Literature</i>
UC Santa Cruz		
Filippo Gianferrari	Literature	<i>Training the Reader: Dante and the Rise of Vernacular Literacy</i>
Euiseok Kim	Molecular, Cell, and Developmental Biology	<i>Molecular Identities and Connectivity of Feedback and Feedforward Circuits in the Mammalian Cortex</i>
Gueyon Kim	Economics	<i>Black-White Differences in Intergenerational Occupational Mobility</i>

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Jacqueline Kimmey	Microbiology & Environmental Toxicology	<i>Circadian response to Streptococcus pneumoniae infection</i>
Jaimie Morse	Sociology	<i>Bodies of Evidence: Legibility, Medical Uncertainty, and the Knowledge Problem of 'Rape Kits'</i>
Juan Pedroza	Sociology	<i>Safety Net Access for Immigrant Families</i>
Justin Perez	Latin American & Latino Studies	<i>LGBT Health Across the Americas Initiative</i>
Jason Samaha	Psychology	<i>Neural Correlates of the Subjective Experience of Time</i>
Samuel Severance	Education	<i>Creating Sustainable Buzz for Science Learning: Piloting an Elementary Project-Based Ecology Unit Supporting Native Bee Populations</i>