

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>

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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>

UNIVERSITY
OF
CALIFORNIA

2021 University of California Hellman Fellows

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>

2021 University of California Hellman Fellows

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 Riverside

Mona Eskandari	Chemical/Environ. Engineering	<i>Sustainable Chemical Recycling Technology for the Upcycling of Plastic Waste into Fungible Fuels</i>
Rengin Firat	Mechanical Engineering	<i>Multiscale Modeling of Sea-Ice: Linking Ice Floe Dynamics to Climate</i>
Timothy Su	Ethnic Studies	<i>Missing in Action: Agency, Race, & Invention</i>
Antoine Lentacker	Psychology	<i>What Happens To Future Decisions When We Forget The Past?</i>
Wei Liu	Economics	<i>What are Effective Forms of Assistance to Advance Homeownership for Disadvantaged Households?</i>

2021 University of California Hellman Fellows

Myisha Cherry

Evolution, Ecology & Orgns Bio

Does Warming Lead to Asynchrony Between Plants and Pollinators?

UC San Diego

Pamela Ban

Political Science

Information Sharing and the Use of Evidence in Congressional Policymaking

Danielle Dean

Visual Arts

Amazon

Julia Michelle Diaz

Sio Department

Speaking of Reactive Oxygen Species: How do marine microalgae get the message through?

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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>
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>

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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>
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>

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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>
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>

2021 University of California Hellman Fellows

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>
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>

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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>
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>

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**Shannon Smith-
Bernardin**

Social and Behavioral Sciences

Evaluation of paramedic decision making in triage and transport of adults with acute uncomplicated alcohol intoxication to the emergency department versus sobering center

**UC Santa
Barbara**

Heather Badamo

Art history

Arts of Encounter: St. George in the Global Middle Ages & Coptic Arts of Memory

Janet Bourne

Musicology

Beethoven Speaks, Who Listens? Experience, Cognition, and Musical Meaning

John Harter

Entomology

Exploring Entanglement in Quantum Spin Liquids

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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>
Hangping Xu	Eastern	<i>Broken Bodies as Agents: Disability Aesthetics and Politics in Modern Chinese Culture and Literature</i>

2021 University of California Hellman Fellows

UC Santa Cruz

Filippo Gianferrari	Literature	<i>Training the Reader: Dante and the Rise of Vernacular Literacy</i>
Euseok 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>
Jacqueline Kimmey	Microbiology & Environmental Toxicology	<i>Circadian response to Streptococcus pneumoniae infection</i>

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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>