

## 2020 University of California Hellman Fellows

### UC Berkeley

<b>Rebecca</b>	<b>Abergel</b>	Nuclear Engineering	<i>Targeted Design of New Radionuclide-Based Antimicrobial Therapeutics</i>
<b>Patrick</b>	<b>Bradshaw</b>	Public Health	<i>Body Composition and Cardiovascular Disease in African-American and White Adults</i>
<b>Dennis</b>	<b>Feehan</b>	Demography	<i>Interpersonal contact in the US during the COVID-19 pandemic</i>
<b>Avi</b>	<b>Feller</b>	Public Policy	<i>What works in reducing gun violence? Assessing methods for estimating impacts of gun policy changes</i>
<b>Grace Xiang</b>	<b>Gu</b>	Mechanical Engineering	<i>Bioprinting nature: Design and fabrication of novel synthetic tissues using artificial intelligence</i>
<b>Atreyee</b>	<b>Gupta</b>	History of Art	<i>Non-Aligned: Decolonization, Modernism, and the Third World Project, India ca. 1930–1960</i>
<b>Erin</b>	<b>Kerrison</b>	Social Welfare	<i>Mixed-Method Analysis of Contemporary Desistance &amp; Recidivism</i>
<b>Celeste</b>	<b>Kidd</b>	Psychology	<i>Interventions to slow the adoption of misinformation</i>
<b>Kranthi Kiran</b>	<b>Mandadapu</b>	Chemical & Biomolecular Engineering	<i>Coupled electrical-chemical-mechanical aspects in action potential generation and propagation in neurological signaling mediated by lipid membranes</i>
<b>Christopher</b>	<b>Muller</b>	Sociology	<i>The Political Economy of Mass Incarceration</i>
<b>Steven</b>	<b>Piantadosi</b>	Psychology	<i>Compute resources for computational models of development</i>

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<b>Teresa</b>	<b>Puthussery</b>	Optometry	<i>Understanding the Functions of the Diverse Output Neurons of the Human Retina</i>
<b>Albert</b>	<b>Ruhi</b>	Environmental Science, Policy & Management	<i>Drought on riverine networks: how does flow intermittency disrupt stream ecosystem processes?</i>
<b>Maria</b>	<b>Sonevysky</b>	Music	<i>Lullabies for Lenin: Soviet Children, Music, and the Communist Future</i>
<b>Koushil</b>	<b>Sreenath</b>	Mechanical Engineering	<i>PDE-based Dynamics and Control for Fire Fighting using a Flying Fire Hose</i>
<b>Ronit Y</b>	<b>Stahl</b>	History	<i>Troubling Conscience: Religious Freedom and Health Care in Modern America</i>
<b>Hannah</b>	<b>Stuart</b>	Mechanical Engineering	<i>Reassessing human dexterity as a framework for assistive technology design</i>
<b>Peter</b>	<b>Sudmant</b>	Integrative Biology	<i>Probing the fidelity of chromatin structure in aging at the single cell level</i>
<b>William</b>	<b>Tuten</b>	Optometry	<i>Advanced optical systems for measuring vision at the cellular level in the human eye</i>
<b>William</b>	<b>White</b>	Anthropology	<i>Digitizing Black Heritage through Collaborative Archaeology</i>
<b>Guo</b>	<b>Xu</b>	Business	<i>The Economic Costs of Employment Segregation: Evidence from the US Federal Government</i>

### UC Davis

<b>Rahel</b>	<b>Sollmann</b>	Wildlife, Fish and Conservation Biology	<i>Studying the mammal community of the vanishing Amazon-Cerrado ecotone</i>
<b>Darnel</b>	<b>Degan</b>	School of Education	<i>Challenging Deficit Discourse in Multimodal Arts-Based Education with Counter-Stories from Media Industry Professionals</i>

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<b>Nicole</b>	<b>Sparapani</b>	School of Education	<i>Evaluation of Interactions between Early Elementary Students with Autism and their Teachers during Literacy and Mathematics Classroom Observations</i>
<b>Jeremy</b>	<b>K Mason</b>	Materials Science and Engineering	<i>Designing the Materials of Tomorrow: Simulations of Atomic Transport</i>
<b>Randy</b>	<b>Haas</b>	Anthropology	<i>Human Adaptation of Extreme Environments: 9000-year-old DNA from the High Andes, Peru</i>
<b>Ryan H</b>	<b>Ubert</b>	Political Science	<i>The U.S. District Court Docket Database</i>
<b>Emily</b>	<b>Merchant</b>	Science and Technology Studies	<i>Molecular Eugenics</i>
<b>Lauren</b>	<b>Peritz</b>	Political Science	<i>Legislating Globalization in U.S. Congress</i>
<b>Laura</b>	<b>Starkston</b>	Mathematics	<i>Weinstein Manifolds</i>
<b>Colin</b>	<b>Webster</b>	Classics	<i>Technologies of Nature in Classical Antiquity</i>
<b>UC Irvine</b>			
<b>Elizabeth</b>	<b>Bess</b>	Chemistry	<i>Using Dietary Fiber to Harvest Novel Probiotics from the Human Gut Microbiome</i>
<b>Lindsay</b>	<b>Gilmour</b>	Dance	<i>Tibetan Ritual Dance in Monasteries and Nunneries: Preservation, Adaptation, and Innovation</i>
<b>Zoe J.</b>	<b>Klemfuss</b>	Psychological Science	<i>Facilitating Children's Disclosures of Maltreatment</i>
<b>Riis</b>	<b>Jenna</b>	Psychological Science	<i>Oral Health and Salivary Biomarkers</i>

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<b>Singh</b>	<b>Sameer</b>	Computer Science	<i>Explaining Decisions of Machine Learning Algorithms</i>
<b>UCLA</b>			
<b>Tria</b>	<b>Blu Wakpa</b>	World Arts and Cultures/Dance	<i>Settler Colonial Choreography and Indigenous Resistance: Native American Embodiment in Educational and Carceral Contexts</i>
<b>Xiang</b>	<b>Chen</b>	Electrical and Computer Engineering	<i>Enabling an Ecosystem of Human-Centered Medical AI</i>
<b>Hengchen</b>	<b>Dai</b>	Management	<i>An Interpersonal Perspective on Motivation and Well-being in the Sharing Economy</i>
<b>Mackenzie</b>	<b>Day</b>	Earth, Planetary, and Space Sciences	<i>Optimizing the Search for Life on Mars</i>
<b>Thomas</b>	<b>Dumitrescu</b>	Physics and Astronomy	<i>How Many Qubits are there in a Quantum Field?</i>
<b>Cesar</b>	<b>Favila</b>	Musicology	<i>Immaculate Sounds: The Musical Lives of Nuns in New Spain</i>
<b>Juan</b>	<b>Herrera</b>	Geography	<i>Intersectional Geographies: Queers of Color in LA and the Politics of Belonging</i>
<b>Candice</b>	<b>Lin</b>	Art	<i>"A Piece of Blue Sky"</i>
<b>Elizabeth</b>	<b>Mayeda</b>	Epidemiology	<i>Estimating Population Prevalence of Pre-Clinical Alzheimer's Disease: Application of Epidemiologic Tools to Enhance Generalizability of a Biomarker Study</i>
<b>Veronica</b>	<b>Paredes</b>	Film, Television and Digital Media	<i>Staying in Place, Surviving Networks: Collaboration and Feminist Media Technology</i>

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<b>Junyoung</b>	<b>Park</b>	Chemical and Biomolecular Engineering	<i>Maximizing CO2 Utilization by Engineering Non-Photosynthetic Metabolism</i>
<b>Sunita</b>	<b>Patel</b>	Law	<i>Community Engagement in Police Structural Reform Remedies</i>
<b>Aaswath</b>	<b>Raman</b>	Materials Science and Engineering	<i>Multi-functional Metamaterials to Enable Passive Dew Condensation</i>
<b>Mary</b>	<b>Rezk-Hanna</b>	Nursing	<i>Effect of Secondhand Aerosol Exposure from Electronic Hookah Vaping</i>
<b>Kay</b>	<b>Rhie</b>	Music	<i>Quake</i>
<b>Amy</b>	<b>Ritterbusch</b>	Social Welfare	<i>"Quien Reclama Estas Vidas? Identidades Desaparecidas": LGBTQ Truths in the Colombian Armed Conflict</i>
<b>Rodrigo</b>	<b>Valenzuela</b>	Art	<i>The Unwaged</i>

### UC Merced

<b>Ahmed</b>	<b>Sabbit Arif</b>	Computer Science and Engineering	<i>Enabling Motor Impaired People to Input Text on Mobile and Wearable Devices</i>
<b>Daniel</b>	<b>Beller</b>	Physics	<i>Modeling 3D Active Nematics Through their Topological Defects</i>
<b>Xuceai</b>	<b>Ge</b>	Molecular and Cell Biology	<i>Proteomic study of signaling proteins in primary cilium in the developing brain</i>
<b>Jennifer</b>	<b>Hahn-Holbrook</b>	Psychology	<i>Does breast milk help babies tell time? A study of daily changes in human milk and circadian biology in infancy</i>

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### UC Riverside

<b>Kandis</b>	<b>Abdul-Aziz Gilliard</b>	Chemical/Environ. Engineering	<i>Sustainable Chemical Recycling Technology for the Upcycling of Plastic Waste into Fungible Fuels</i>
<b>Venkatarama</b>	<b>Bhargav Rallabandi</b>	Mechanical Engineering	<i>Multiscale Modeling of Sea-Ice: Linking Ice Floe Dynamics to Climate</i>
<b>Alisa</b>	<b>Bierria</b>	Ethnic Studies	<i>Missing in Action: Agency, Race, &amp; Invention</i>
<b>Ilana</b>	<b>Hershman Bennett</b>	Psychology	<i>What Happens To Future Decisions When We Forget The Past?</i>
<b>Ruoyao</b>	<b>Shi</b>	Economics	<i>What are Effective Forms of Assistance to Advance Homeownership for Disadvantaged Households?</i>
<b>Nicole</b>	<b>Rafferty</b>	Evolution, Ecology & Orgns Bio	<i>Does Warming Lead to Asynchrony Between Plants and Pollinators?</i>
<b>Philip Alfred</b>	<b>Tanedo</b>	Physics & Astronomy	<i>Discovering Dark Forces in an Extra Dimension</i>

### UC San Diego

<b>Galia</b>	<b>Debelouchina</b>	Chemistry And Biochemistry	<i>Development of Targetable Polarization Agents for Structural Biology in Cells</i>
<b>Francisco</b>	<b>Garfias Royo</b>	Global Policy And Strategy	<i>The Fiscal Contract up Close: Experimental Evidence from Mexico City</i>
<b>Stacey</b>	<b>Glasgow</b>	Neurobiology	<i>Gliogenesis: Charting New Pathways for Glioma Therapies</i>
<b>Uma</b>	<b>Karmarkar</b>	Rady School Of Management	<i>Attention and Value Estimation in Multi-option Decision Making</i>

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Shawna	Kidman	Communication	<i>Media Industries in Flux: Organizational Resilience and the Generation of Capital Since 1980</i>
Tongyan	Lin	Physics	<i>New Signatures of Particle Dark Matter in Low-Threshold Detectors</i>
Katherine	Meckel (Clemens)	Economics	<i>Early Life Determinants of Suicides and Overdoses among Middle Aged Californians</i>
Gareth	Nellis	Political Science	<i>WhatsApp with India? The Effects of Social Media on Political Preferences and Violent Majoritarianism</i>
Agustina	Paglayan	Political Science	<i>The Autocratic Roots of the Global Learning Crisis</i>
Perez Wilfrido	Terrazas	Music	<i>The Torres Cycle (2014-20). Recording and Performance Project</i>
Ingrid	Tomac	Structural Engineering	<i>Post-Wildfire Mudflows Explained with Transport Phenomena of Hydrophobic Particle-Air-Water Mixtures</i>
Monique	Wonderly	Philosophy	<i>Attachment, Agency, and Virtue: A Philosophical Treatment of Emotional Attachment</i>
Wenxin	Zhou	Mathematics	<i>Smoothed Quantile Regression: Methods, Theory and Algorithm</i>
<b>UCSF</b>			
Edilberto	Amorim	Neurology	<i>Cerebral white matter injury and connectivity disruption in overdose-related cardiac arrest</i>
Emilia	De Marchis	Family & Community Medicine	<i>Evaluating Clinical Activities to Address Patients' Social Risk Factors</i>
Alison	El Ayadi	Obstetrics, Gynecology & Reproductive Sciences	<i>Characterizing maternal morbidity in California: trends and risk factors</i>

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<b>Lauren</b>	<b>Haack</b>	Psychiatry	<i>Adapting a Digital School Mental Health Program into Spanish for Latinx Youth with ADHD and ODD</i>
<b>Rachel</b>	<b>Kaplan</b>	Obstetrics, Gynecology & Reproductive Sciences	<i>Addressing Health Disparities Among Transgender Women in the Middle East</i>
<b>Ashwin</b>	<b>Kotwal</b>	Medicine, Division of Geriatrics	<i>Developing an Intervention for Loneliness and Social Isolation among Older Adults with Cognitive Impairment</i>
<b>Cherry</b>	<b>Leung</b>	Community Health Systems	<i>Tryptophan Metabolism by the Gut Microbiome and Adolescent Depressive Symptoms</i>
<b>Anjana</b>	<b>Sharma</b>	Family & Community Medicine	<i>ExPERTS-PC: Engaging Patients in Event Reporting for Safety in Primary Care</i>
<b>Neel</b>	<b>Singhal</b>	Neurology	<i>Modeling neuronal resilience with stroke genetic variants in hiPSC</i>
<b>UC Santa Barbara</b>			
<b>Zoe</b>	<b>Liberman</b>	Psychology	<i>You are whom you eat with: Food choice as a window into early social categorization</i>
<b>Emily</b>	<b>Jacobs</b>	Psychology	<i>Identifying the impact of sex hormone suppression on brain morphology</i>
<b>Christopher</b>	<b>Bates</b>	Materials Engineering	<i>Precision Polymer Synthesis Inspired By Nature</i>
<b>Gabriel</b>	<b>Menard</b>	Chemistry	<i>Electrocatalytic Ammonia Oxidation for Energy Storage Applications</i>
<b>Elana</b>	<b>Resnick</b>	Anthropology	<i>Racialized Power: Nuclear Energy and Infrastructural Inequality in Bulgaria</i>
<b>Holly</b>	<b>Moeller</b>	Ecology, Evolution, and Marine Biology	<i>Developing a model system for the endosymbiotic origin of eukaryotic chloroplasts</i>

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<b>Manuel</b>	<b>Covo</b>	History	<i>The Treasurer's Tale: A Lost Account of the Haitian Revolution</i>
<b>William</b>	<b>Fleming</b>	East Asian Languages and Cultural Studies	<i>Machida Keijiro, American Samurai</i>
<b>UC Santa Cruz</b>			
<b>Saskias</b>	<b>Casanova</b>	Psychology	<i>Youth Participatory Action Research, Cultural Knowledge &amp; Resilience for (Im)migrant High School Students</i>
<b>A.M.</b>	<b>Darke</b>	Arts	<i>Open Source Afro Hair Library</i>
<b>Camilla</b>	<b>Hawthorne</b>	Sociology	<i>A Black Santa Cruz Sense of Place</i>
<b>Timothy</b>	<b>Johnstone</b>	Chemistry & Biochemistry	<i>Medicinal Inorganic Chemistry to Treat Carbon Monoxide Poisoning and Neglected Tropical Disease</i>
<b>Jennifer</b>	<b>Kelly</b>	Feminist Studies	<i>Three pre-tenure projects</i>
<b>Katy</b>	<b>Seto</b>	Environmental Studies	<i>Turning the Tide: Shifting Access, Equity, and Vulnerability in Coastal California</i>
<b>Michael</b>	<b>Wehner</b>	Electrical and Computer Engineering	<i>Low cost automation for Endotracheal Intubation</i>
<b>Margaret</b>	<b>Zimmer</b>	Earth and Planetary Sciences	<i>Quantification of groundwater recharge in non-perennial rivers</i>