

2024 University of California Hellman Fellows

UC Berkeley

Ahmed Alaa	Computational Precision Health	<i>Understanding the Cardioprotective Role of GLP-1 Therapies using Causal Deep Learning</i>
Francis Annan	Agriculture and Resource Economics	<i>Using Monitoring Technologies to Improve Public Distribution Programs</i>
Rosemarie de la Rosa	Public Health	<i>Examining Associations Between Blood Lead Levels and Asthma Among Children in Oakland, California</i>
Patrice Douglass	Gender and Women's Studies	<i>Race and Abortion Ethics: Antiblackness and the Opacity of Liberty</i>

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Georgios Eftaxiopoulos	Architecture	<i>Building Certainty</i>
Cynthia Gerlein-Safdi	Civil and Environmental Engineering	<i>Enhancing Climate Change Insights through Advanced Understanding of Greenhouse Gas Dynamics in Ecosystems</i>
Rachel Gershon	Business	<i>The Paradox of Plenty: How Unlimited Access Can Reduce Consumer Usage</i>
Kosa Goucher-Lambert	Mechanical Engineering	<i>What does it mean to be “creative” in an era of engineering design fueled by generative AI? Method development and user study</i>
Micah Khater	African American and African Diaspora Studies	<i>Vanishing Points: Black Women, Carceral Margins, and Genealogies of Escape</i>
Dorothy Kronick	Public Policy	<i>Is there a tradeoff between suspects' rights and crime control? Empirical evidence from Latin America</i>

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Michael Lindsey	Mathematics	<i>Constructing and Leveraging Fast Adaptive Discretizations for Electronic Structure</i>
Kristina Lovato	Social Welfare	<i>Building the Capacity of Child Welfare Systems to Serve Unaccompanied Immigrant Transitional Age Youth (TAY) during the Precarious Transition to Adulthood</i>
Wenbin Lu	Astronomy	<i>Surprising Outcomes of Neutron Stars Born in Binary Systems</i>
Eric Ma	Physics	<i>Fluorescence of Optical Phonons</i>
Cassandra Marshall	Public Health	<i>Evaluating an Interprofessional Collaboration Between a Community Doula Organization and Clinical Partners</i>
Luther Obrock	South and Southeast Asian Studies	<i>Islamic Poetry in Sanskrit Verse: A Bilingual Edition and Study of Śrīvara's Kathākaṭuka</i>

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Ahmad Omar	Materials Science & Engineering	<i>Bringing Thermodynamics to Life</i>
Jorge Otero-Millian	Optometry	<i>Virtual prisms to quantify and manage strabismus using mixed reality</i>
Rahul Parson	South and Southeast Asian Studies	<i>Calcutta's Raking Lights: Marwaris and Hindi Literature in New India</i>
Onja Razafindratsima	Integrative Biology	<i>Living in the Dark: Exploring how moon phases and luminosity influence lemur activity at night</i>
Carolyn Stein	Business	<i>Discrimination in Job Design</i>
Denis Titov	Nutritional Sciences and Toxicology	<i>Targeting cancer by hyperactivating the Warburg Effect</i>

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Jingshen Wang	Biostatistics	<i>Synthetic digital Tau-PET image biomarker creation with generative AI for diagnosing and treating neurodegenerative diseases</i>
Ziqi Wang	Civil and Environmental Engineering	<i>From the Direct Physical Impact of Hazards to the Emotional Well-being of Individuals</i>
Omar Wasow	Political Science	<i>American Ethnic Violence Lab</i>
Ashley Wolf	Public Health	<i>The role of the gut microbiome in protection against Shigella infection</i>

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UC Davis

Imtiyaz Khanday	Plant Sciences	<i>Investigating Seed Development in Cereal Crops</i>
Anya Brown	Evolution and Ecology	<i>Can microbial sharing enhance host survival?</i>
Maria Maldonado	Plant Biology	<i>Understanding kelp photosynthesis to develop better carbon fixation strategies</i>
Alcia Rusoja	Education	<i>The Educational Experiences of Venezuelan Immigrants in Northern California</i>

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Hyoyoung Jeong	Electrical and Computer Engineering	<i>Closed-Loop Wireless System for Autonomous Seizure Monitoring and Mitigation</i>
Akua Banful	English	<i>Constructing the Tropics: Empire and Discourses of Climate</i>
Emorie Beck	Psychology	<i>Social and cognitive health dynamics as digital risk biomarkers of ADRD</i>
Veronica Lerma	Sociology	<i>Criminalizing Chicanas: Intersectional Criminalization and Resistance in California's Prison Alley</i>
Tanuja Mishra	Design	<i>Bots 'n' Beings: Democratizing access to open-source AI technologies</i>
Xiao Hui Tai	Statistics	<i>Armed Conflict and Women's Economic Empowerment in Africa</i>

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Shingirai Taodzera	African American and African Studies	<i>Resourceful African Kingdoms</i>
Kathleen Whiteley	Native American Studies	<i>Justice in Balance: The Indians of California versus The United States of America</i>

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UC Irvine

Fangyuan Ding	Biomedical Engineering	<i>Systematic characterizaion of protein-nucleic adic binding kinetics in a universally-applicable manner</i>
Abigail Lapin Dardashti	Art History	<i>Itinerant Modernism: Politics and the Rise of Afro-Brazilian Art</i>
Pablo Lara Gonzalez	Developmental and Cell Biology	<i>Elucidating the importance of mitotic duration control in embryogenesis and in cancer</i>
Katherine Trieste Rhodes	Education	<i>African American Children's RICH Mathematical Word Problems</i>

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Alejandra Rodriguez Verdugo	Ecology and Evolutionary Biology	<i>Principles of multispecies interactions for evolution and function of microbial communities</i>
Javier Sanchez	Physics and Astronomy	<i>Quantum electronics with injection-molded two-dimensional crystals</i>
Xian Shi	Mechanical and Aerospace Engineering	<i>Synthesis and Assembly of Carbon Battery Electrodes Using Natural Gas</i>
Ji Seon Song	Law	<i>Crisis Policing</i>
Irene Isela Vega	Sociology	<i>Racialized Social Ladders: Navigating Mobility Alongside Persistent Inequality</i>
Travis Wiles	Molecular Biology and Biochemistry	<i>LIFE, DEATH, & SYMBIOSIS: Igniting Viral Outbreaks in the Gut Microbiome to Promote Health</i>

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UCLA

Tiffany Barber	Art History	<i>Undesirability and Her Sisters: Black Women's Visual Work in the New Millennium</i>
Alexander Bloedel	Economics	<i>Modeling and Incentivizing Rationally Inattentive Agents</i>
Laura Chavez-Moreno	Chicana/o and Central American Studies	<i>How Schools Make Race: Teaching Latinx Racialization in America</i>
Christopher Gutierrez	Physics and Astronomy	<i>Visualizing light emission from 2D quantum materials with atomic resolution</i>

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Christopher Herring	Sociology	<i>The Causes and Consequences of Unstable Exits from Permanent Supportive Housing</i>
Thomas Hodgson	Musicology	<i>Music Streaming in the Global South</i>
Alvine Kamaha	Physics and Astronomy	<i>Optimizing the Sensitivity of Noble Liquid Detectors to Search for the Missing Matter of the Universe</i>
Choon Hwee Koh	History	<i>A History of Money in the Ottoman Empire (1500-1900)</i>
Tai Lam	Management	<i>Antitrust in Advertising-Subsidized Markets: Youtube Content Economy</i>
Aaron Littman	School of Law	<i>Organizing Protection and Advocacy: The Role of Federally Mandated Disability Rights Agencies in Litigating Conditions of Confinement</i>

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Peng Ni	Earth, Planetary, and Space Sciences	<i>Understanding Earth's deep subduction cycle using diamond inclusions</i>
Elsa Ordway	Ecology and Evolutionary Biology	<i>Constraining uncertainty in tropical forest responses to global change by understanding seasonal plant physiology</i>
Laurel Perkins	Linguistics	<i>Topic-Comment Structure in Thought and Language Acquisition</i>
Michael Rubens	Economics	<i>The Dynamic Effects of Monopsony Power: Evidence from U.S. Pilot Markets</i>
Danielle Schmitt	Chemistry and Biochemistry	<i>Elucidating the Mechanism of Hydrogen Peroxide-Induced AMPK Activity</i>
Thiago Sevilhano Puglieri	Art History	<i>Tikuna/Magüta Natural Colorants: A Community Engaged Research to Investigate Materials, Techniques, Values, and Science of Amazonian Colors</i>

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David Turner	Social Welfare	<i>The (Good) Trouble With Black Boys: Identity, Community Power, and Reimagining Success in the Carceral State</i>
Thuy Vo Dang	Information Studies	<i>Vietnamese Diaspora in the UK: Oral History and Archival Reciprocity for Community Archives</i>
Jennifer Wilson	Bioengineering	<i>Predicting Dual-Treatment Effects Using Simulated “Cellular Highways” in Cancer</i>
Luwei Ying	Political Science	<i>The Logic of Terrorist Propaganda</i>
Naomi Zewde	Health Policy and Management	<i>Does Public Administration Improve Healthcare Quality? Evidence from Connecticut Medicaid</i>

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UC Merced

Andrea Polonijo	Sociology	<i>Stigma as a Fundamental Cause of Health Inequalities for Sexual and Gender Minority Populations</i>
Pengfei Su	Computer Science and Engineering	<i>Squeezing GPU Computing and Memory Resources in Deep Learning</i>
Tomas Rube	Applied Mathematics	<i>Mathematical Methods for Predicting Transcription Factor Binding Kinetics</i>

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UC Riverside

Jiamin Zhang	Chemical Environmental Engineering	<i>Teaching and Assessing Virtue-Based Engineering Ethics</i>
Tingting Xiang	Bioengineering	<i>Uncovering the molecular details that govern coral-algal symbiosis using forward genetic screens</i>
Mykhailo Potomkin	Mathematics	<i>Geometric control of active matter flow via computational modeling</i>
Lucy Delaney	Evolution, Ecology, and Organismal Biology	<i>That's Life: A Television Show About Organisms (and a novel approach to intro. bio.)</i>

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Savannah Esquivel	History of Art	<i>Indigenous Insiders: Sights, Sounds, and Cross-Cultural Interactions in Mexico's Early Colonial Monasteries</i>
Jorge N. Leal	History	<i>Rock Angelino: Young Latina/o Ingenuity, Sound, and Solidarity in Late Twentieth-Century Los Angeles</i>
Jalondra A. Davis	English	<i>Merfolk and Black Being in Water</i>
Michael W. Moses II	Education	<i>Retaining Racially Minoritized Students: An Ethnography of "Warmth" in a Black Undergraduate Mentoring Course</i>

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UC San Diego

Mehmet Akten	Visual Arts	<i>Embodied Simulation</i>
Nicholas A Antipa	Electrical and Computer Engineering	<i>Chemical Sensing of the Ocean-Atmosphere Microlayer</i>
Carol Arcos Herrera	Literature	<i>The Maternal Wound: Reproductive Forces and Postmotherhood in Latin American Feminist Culture</i>
Elizabeth L Campbell	Management	<i>Gender, Sexual Harassment Scandals, & Job Search Behavior</i>

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Ignacio Carvajal	Literature	<i>Xtz'ib'ax ri chak'atajik/Written conquest: Reducción and Territory in the Highlands of Guatemala</i>
Fabian Paul Eckert	Economics	<i>Spatial Inequality in the United States 1980-2020: Causes, Consequences, and Policy Approaches</i>
Jose Ignacio Fuste	Ethnic Studies	<i>Entangled Crossings: Afro-Latinx Migrations Between Race and Empire, 1870s-1930s</i>
Neil M Gong	Sociology	<i>The Liberal Management of "Problem Populations"</i>
Sylvia Lee Herbert	Mechanical and Aerospace Engineering	<i>Safety Analysis and Control for Systems Biology Applications</i>
Zeinab Jahed	NanoEngineering	<i>Understanding the mechanisms of cell damage and repair through nanotechnology</i>

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Mingu Kang	Electrical and Computer Engineering	<i>Next-Generation AI Hardware: Unlocking Ultra-Low Power Potential via Emerging Computing Paradigm</i>
Hiruy Sibhatu Meharena	Neurobiology	<i>Molecular and Cellular Convergence of Intellectual Disabilities</i>
Kelema Lee Moses	Urban Studies and Planning	<i>Island Modernism/Island Urbanism: Spatial Politics in Honolulu, Hawai'i</i>
Abdoulaye Ndao	Electrical and Computer Engineering	<i>Metasurface-reformed oximetry: shining structured light on racial bias</i>
Holly Okonkwo	Ethnic Studies	<i>Liberatory Code: Race, Gender, and the Politics of Computing</i>
Lamar T Perry	Theatre and Dance	<i>Directing RISE & BEINGS as an act of Restorative Justice</i>

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Colleen Mary Petrik	Oceanography	<i>Modeling seafloor animals is critical for understanding the carbon cycle and fisheries</i>
Alexandro Abraham Segade	Visual Arts	<i>Anoche (Last Night) - A Performance and Video Installation for 15th Havana Biennial by Alexandro Segade</i>
Lily Weng	Data Science	<i>Transparent AI: Unlocking the Mysteries of Large Language and Multimodal Models</i>
Vashan Wright	Oceanography	<i>Reliable pre-cursor signals for earthquakes and slope failure forecasting</i>
Haijun Xia	Cognitive Science	<i>Redesigning the Information Space to Unleash the Power of AI</i>

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UCSF

Ashraf Abugroun	Medicine	<i>Examining the Association Between Social Frailty and Accelerated Aging</i>
Mauro Caffarelli	Pediatrics	<i>Validating a Quantitative Electroencephalographic Index for Stroke Recognition in Sedated Patients.</i>
Ashley Foster	Emergency Medicine	<i>Crisis Line Follow-up after Emergency Department Discharge for Youth with Increased Risk of Suicide</i>
Sheiphali Gandhi	Occupational, Environmental, and Climate Medicine	<i>Understanding Pulmonary Fibrosis Through the Integration of Complex Occupational and Environmental Exposure Assessments (PF-OEM)</i>

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Sasha Gorrell	Psychiatry and Behavioral Sciences	<i>Multi-modal assessment of muscle function and related cognition among inpatients with anorexia nerv</i>
Bridget Keenan	Hematology and Oncology	<i>Mechanisms of response and resistance to cellular therapy in colorectal cancer</i>
Nhung Nguyen	Medicine	<i>Feasibility and Acceptability of a Smartphone-based Geofencing Intervention for Vaping Cessation among Young Adults</i>
Carlos Penilla	Pediatrics	<i>Promoting Health, Increasing Self-Efficacy and Reducing Alcohol-Related Risk Behavior in Latinx Adolescents</i>
Daniel Soulsby	Pediatric Rheumatology	<i>Application of the Socioecological Model to Elucidate Health Disparities in JIA</i>
Michael Spinner	Hematology and Oncology	<i>A Phase II Trial of Pembrolizumab + GVD with ctDNA-Guided Consolidation in Patients with Relapsed/Refractory Classic Hodgkin Lymphoma</i>

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Jennifer Velloza	Epidemiology and Biostatistics	<i>Formative research to develop a status-neutral HIV adherence support intervention for key populations in San Francisco</i>
Paul Wesson	Epidemiology and Biostatistics	<i>If you are not counted, you don't count: Estimating the number of people experiencing homelessness in Los Angeles</i>
Mary Jue Xu	Otolaryngology	<i>Implementation of a Disease-Focused Tumor Board at Muhimbili and Ocean Road Cancer Institute</i>
Madeline Yung	Ophthalmology	<i>Development of a self-guided curriculum for medical student ophthalmology clerkship</i>

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UC Santa Barbara

Haewon Jeong	Electrical and Computer Engineering	<i>From Dirty Data to Fair Prediction: Data Preparation Framework for End-to-End equitable Machine Learning</i>
Chenhao Jin	Physics	<i>Ultrafast manipulation of topological magnets</i>
Yader Lanuza	Sociology	<i>Undocumented & Privileged: Immigrant Selectivity and Legal Status in High School-to-College Transition</i>
Regina Lapate	Psychological and Brain Sciences	<i>The Life of Memories Project</i>

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Gen Li	Earth Science	<i>Geologic Carbon Dioxide Drawdown: Fate of Earthquake-Eroded Organic Carbon</i>
Amrah Salomon Johnson	English	<i>Confluences: Indigenous Fugitivity on the Border</i>
David Stein	History	<i>Fearing Inflation, Inflating Fears: The Civil Right Struggle for Full Employment and the Rise of the Carceral State, 1929-1989</i>

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UC Santa Cruz

Josefina Bittar	Languages and Applied Linguistics	<i>Language Use and Change among Paraguayan Immigrants in Spain</i>
Vaggos Chatziafratis	Computer Sciences and Engineering	<i>Theoretical Foundations of Contrastive Machine Learning</i>
Bradley Colquitt	Molecular, Cell, and Developmental Biology	<i>Theme and Variations: The Development and Evolution of Birdsong at the Molecular Level</i>
Mia Gong	Linguistics	<i>Documenting Linguistic Diversity: Anaphoric Variations in Transeurasian Languages</i>

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Hannah Hausman	Psychology	<i>Improving Problem-solving, Metacognition, and Mindsets Through Self-explanation</i>
Vanessa Jonsson	Applied Mathematics	<i>AI driven T cell immunotherapy target discovery</i>
Rene Espinoza Kissell	Education	<i>School Debt Under Fiscal Surveillance</i>
Carlos Martinez	Latin American and Latino Studies	<i>Examining Asylum Deterrence Policies & Migrant Captivity on the U.S.-Mexico Border</i>
Matthew Schumaker	Music	<i>Traditional Instruments and New Music Technology at the Korean Experimental Music Festival</i>
Xiao Wang	Chemistry and Biochemistry	<i>Exploring Exciton-polaritons in Two-dimensional Transition Metal Dichalcogenides using Wavefunction-based Ab Initio Methods</i>

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Arial Zucker

Economics

Price Incentives for Resource Conservation: Experimental Evidence from Groundwater Irrigation