

2023 University of California Hellman Fellows

UC Berkeley

**Gopala Krishna
Anumanchipalli**

Electrical Engineering and Computer Sciences

Towards Perceptually Grounded Voice Modification

Lilla Balint

German

After 1989: History, Temporality, and the Contemporary

Benjamin Blonder

Environmental Science, Policy, and Management

Advancing quaking aspen forest conservation through genetics

Amanda Brewster

Public Health

*Organizational networks to advance population health:
how can a network hub effectively manage?*

2023 University of California Hellman Fellows

Yu-Ling Chang	Social Welfare	<i>Investigating the Welfare-to-Work Requirements and Sanction-lifted Policies Following the COVID-19 Pandemic through An Equity Lens</i>
Youjin Chung	Energy and Resources Group	<i>A Living Archive of Pastoral Lifeworlds: Towards Decolonizing Development and Climate Justice</i>
Liang Dai	Physics	<i>Understanding Clustered Star Formation at Extreme Density in the Young Universe</i>
Derfogail Delcassian	Bioengineering	<i>Exploring lymph node mechanics with bioengineered systems</i>
Manuela Giroto	Environmental Science, Policy, and Management	<i>The Role of Sierra Nevada Snow in Regulating Central Valley Groundwater Droughts</i>
Zoe Hamstead	City & Regional Planning	<i>Thermal Governance in an Era of Climate Change</i>

2023 University of California Hellman Fellows

David Holtz	Business	<i>Cracking the Coding Interview</i>
Nicholas Laluk	Anthropology	<i>Ndee (Apache) Place-Based Understandings and Environmental Justice</i>
Zachary Lamb	City and Regional Planning	<i>Manufacturing Resilience: Climate Equity for Residents of California's Mobile Home Parks</i>
Yan Long	Sociology	<i>Assembling Digital Statecraft in (Post-)COVID China</i>
Peter Maxted	Business	<i>Understanding Household Borrowing and its Macroeconomic Implications</i>
Fumi Okiji	Rhetoric	<i>"The standard as revolutionary intoxication"</i>

2023 University of California Hellman Fellows

Amy Pickering	Civil and Environmental Engineering	<i>The role of concentrated animal feeding operations in the spread of antibiotic resistance in California's Central Valley: a community engaged pilot study</i>
Benjamin Safdi	Physics	<i>Predicting the dark matter axion mass at transformative precision</i>
Aarti Sethi	Anthropology	<i>A Library For Tirjhada: Towards an Ethnography of Intellectual Emancipation in Contemporary India.</i>
Ian Swinburne	Molecular & Cell Biology	<i>Regulation of organ hydraulics by hormonal signals</i>
Grigory Tikhomirov	Electrical Engineering and Computer Sciences	<i>Single-cell MRI voltage sensor</i>
Nick Tsivanidis	Business	<i>Sustainability, Public Transit Adoption, and Economic Growth</i>

2023 University of California Hellman Fellows

Stacey Van Vleet	History	<i>The World the Medicine Buddha Built: Tibetan Medical Governance in Qing Inner Asia</i>
Jonathan Weigel	Business	<i>Progressivity, Fairness, and Tax Capacity</i>
Martha Wilfahrt	Political Science	<i>Tropical Subjects: Ethnographies of Experimentation</i>
Nathaniel Wolfson	Spanish and Portuguese	<i>The Machine and the Feather: Technological Thought in Brazil</i>

2023 University of California Hellman Fellows

UC Davis

Shamin Ahamed	Biological and Ag Engineering	<i>Energy Harvesting from Artificial Lighting in Vertical Farming Systems</i>
Payam Vahmani	Animal Science	<i>Trans-vaccenic acid as a natural insulin sensitizer: Towards developing animal source foods with anti-diabetogenic properties</i>
Ariana Valle	Sociology	<i>Citizenship in Contexts: How Puerto Ricans are Transforming Race and Politics in Florida</i>
Christoph Hanssmann	Gender, Sexuality, and Women's Studies	<i>Trans Health in Controversial Times</i>

2023 University of California Hellman Fellows

Emily Vazquez	Spanish & Portuguese	<i>Border Biomes: Coexistence and Interference on American Migration Trails</i>
Ga Young Chung	Asian American Studies	<i>Unexpired: Race, Imperial Futurity, and Undocumented Korean Youth Temporality</i>
Grace Delmolino	French & Italian	<i>Medieval Consent: Sex, Law, and Boccaccio's Fictions of Choice</i>
John Lopez	Art History	<i>The Aquatic Metropolis: Urban Design and Environmental Change at Tenochtitlan-Mexico City</i>
Kathleen Cruz	Classics	<i>Competing Visions: Classical Antiquity and Puerto Rican Identity in the 19th and 20th Centuries</i>
Lishan AZ (all caps)	Cinema and Digital Media	<i>In Search of Solid Ground: Immersive and Interactive Black History Exhibit</i>

2023 University of California Hellman Fellows

Sameer Iyer

Mathematics

*Formation of Separation and Onset of Reversal for
the Stationary Navier-Stokes Equations*

Zinzi Clemmons

English

Heaven: A Novel of Black Utopia

UC Irvine

Herdeline Ardoña

Chemical and Biomolecular Engineering

*Wiring-Up Muscle Tissues for Advancing the
Manufacturing of Cultured Meats*

2023 University of California Hellman Fellows

Stacy Copp	Materials Science and Engineering	<i>Near Infrared Emitters for Biomedical Imaging in the Tissue Transparency Windows</i>
Nicole Iturriaga	Criminology, Law and Society	<i>Technology, Surveillance, and the Changing Legal Landscapes of Post-Roe America</i>
Christopher Miles	Mathematics	<i>Mathematics of Mitosis: Modeling & Data Science for Mechanistic Insight</i>
Diu-Huong Nguyen	History	<i>Eve of Destruction: A Social History of Viet Nam's Royal City, 1957-1967</i>
Cyrian Reed	Dance	<i>The Essence of Raw Freestyle</i>
Alexandra Voloshina	Mechanical and Aerospace Engineering	<i>Constraint Induced Movement Therapy for Gait Rehabilitation Post Stroke</i>

2023 University of California Hellman Fellows

Salvador Zárate

Anthropology

*Fire Break: Latinx Migrant Workers and
Wildfire Prevention in Climate-Changed Southern California*

UCLA

Amjad Askary

Molecular, Cell and Developmental Biology

*Identifying Spatial Motifs in Cellular Architecture of
Complex Tissues*

Jolie Chea

Asian American Studies

*"This Is War: The Politics of Refuge and the Settler
Colonial Logic of Incorporation"*

Justin Dunnivant

Anthropology

Historical Ecology and Slavery in the Danish West Indies

2023 University of California Hellman Fellows

Hollian Wint	History	<i>Afro-Asian Archives: Preserving, Digitizing, and Exploring Gujarati Sources for Indian Ocean African History</i>
Felipe Goncalves	Economics	<i>Measuring Police Discrimination in a Selected Sample</i>
Chong He	Management	<i>Gendered Career Trajectories: Understanding the Role of Job Mobility in Perpetuating Inequality</i>
Shohini Kundu	Management	<i>Local Bank Liquidity and Business Cycle Fluctuations</i>
Summer Lee	English	<i>"Spoiled: Hostile Forms, Racial Matter, and Asian American Aggression"</i>
Yuzhang Li	Chemical and Biomolecular Engineering	<i>Enabling High-Energy Li Metal Batteries using 3D Architectures</i>

2023 University of California Hellman Fellows

Alicea Lieberman	Management	<i>How Environments Communicate Norms and Change Behavior for the Better</i>
Oscar Hernan Madrid Padilla	Statistics and Data Science	<i>Nonparametric Functional Data Analysis: Theory and Methods</i>
Alexander Mazzaferro	English	<i>"No New Enterprise: The Innovation Prohibition and the New Science of Politics in Colonial America"</i>
Baharan Mirzasoleimanbarzi	Computer Science	<i>The Future of Mental Disorder Detection Using Machine Learning</i>
William Rafey	Economics	<i>Designing California's Water Market</i>
Cindy Sangalang	Social Welfare/Asian American Studies	<i>Beyond the Pandemic: Factors that Contribute to Mental Health for Filipino American Essential Workers</i>

2023 University of California Hellman Fellows

Marissa Seamans	Epidemiology	<i>Enhancing the Generalizability of Findings from Randomized Trials with Missing Data to Target Populations: Applications in Substance Use Disorder Treatment</i>
Yotam Shem-Tov	Economics	<i>The Intergenerational Effects of Parental Job Loss on Children's Criminal Justice Involvement</i>
Qianhui Shi	Physics and Astronomy	<i>Exploring Chirality-Induced Spin Selectivity in Atomic Layers</i>
Mikhail Solon	Physics and Astronomy	<i>Quantum Field Theory Tools for Gravitational Wave Science</i>
Wendy Sung	World Arts and Cultures/Dance	<i>"Violent Virality: Racial Violence and the Making of New Media"</i>

2023 University of California Hellman Fellows

UC Merced

Shijia Pan	Electrical Engineering and Computer Science	<i>Unobtrusive Older Adults In-Home Monitoring via Miura -- Ori Origami-Inspired Configurable Elastic Surface</i>
Briana Ballis	Economics	<i>Early Life Health Conditions and Racial Gaps in Education</i>
Xuan Zhang	Life & Environmental Sciences	<i>Developing an Exposure Map of Cancer -- Causing Air Pollutants in Central California</i>

2023 University of California Hellman Fellows

UC Riverside

Elizabeth Berger

Anthropology

Climate Change and Violence in the Chinese Bronze Age

Diogo Ferrari

Political Science

The Causes of Support for Authoritarian Populism

Dana Kaufman

Music

Opera Kardashian - A Production with Synchrony

Jasmin Young

Ethnic Studies

Black Power Digital Archive

2023 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>

2023 University of California Hellman Fellows

UC San Diego

Janelle Iglesias

Visual Arts

How to Survive

Karen Kovaka

Philosophy

Integrating Democratic Values with Scientific Research

Amanda Batarseh

Literature

Placing Palestine: Radical Analytics of Narrative Space

Rose Cano Bermudez

History

*Dignity Warriors: Alicia Escalante and the
Multiracial Coalition for Economic Justice and Human Dignity*

2023 University of California Hellman Fellows

Michelle Lou	Music	<i>Electro-acoustic Music Portrait Album CD Releases and Techniques of Electric Guitar Book</i>
Lindsey Powell	Psychology	<i>Children's Reasoning About Empathy and Social Relationships</i>
Titan Alon	Economics	<i>The Wealth Elasticity of Aggregate Labor Supply: A Macroeconomic Approach</i>
Sara Lowes	Economics	<i>Migration and Cultural Change: Evidence from the Democratic Republic of the Congo</i>
Edward Kelting	Literature	<i>Egyptian Things: Translating Egypt to Early Imperial Rome</i>
Yuanyuan Shi	Electrical and Computer Engineering	<i>Operator Learning for Optimal Building Control: Towards a Sustainable and Healthy Indoor Environment</i>

2023 University of California Hellman Fellows

Decima Moira	Scripps Institution of Oceanography	<i>Pyrosomes like it hot! Do warm waters enhance the "jelly web" in the California Current Ecosystem?</i>
Yatish Turakhia	Electrical and Computer Engineering	<i>Compressive Pangenomics</i>
Chavez Fabian Rivera Chavez	Molecular Biology	<i>Molecular mechanisms of breast milk-mediated inhibition of <i>V. cholerae</i> infection and disease</i>
Erik Romero	Chemistry and Biochemistry	<i>Harnessing Visible Light for Regioselective Functionalization of Unstrained C-C Bonds</i>
Mattia Serra	Physics	<i>Automated, real-time localization of ocean-surface accumulation regions for conservation and rescue</i>
Andrew Murayama	Cell and Developmental Biology	<i>Developing AI-based methodology to analyze multidimensional imaging data from living specimens</i>

2023 University of California Hellman Fellows

Danna Zhang

Mathematics

Inference of Dynamic Connectivity for High Dimensional Time Series

UCSF

April Bell

Family and Community Medicine

Improving the measurement of positive sexuality for Black adolescent girls to advance reproductive justice, health, rights, and well-being

Marc Buren

Anesthesia and Perioperative Care

A multiplex analysis of biomarkers of perioperative inflammation and neuronal injury induced by major spinal surgery and modified by a postoperative lidocaine infusion

Addison Cuneo

Pediatrics

Identifying Potentially Modifiable Risk Factors for Medical Traumatic Stress in Chronic Illness

2023 University of California Hellman Fellows

Rebecca DeBoer	Medicine, Division of Hematology/Oncology	<i>A Pilot Study of Quality Indicators for Palliative-Intent and End-of-Life Cancer Care in Rwanda</i>
Amanda Downey	Pediatrics	<i>Study of Psilocybin in Anorexia Nervosa in Young Adults (SPANYA): Examining Changes in Neuroplasticity, Inflammation and Reward</i>
Anneka Hooft	Emergency Medicine	<i>Predictors of disease severity in children with non-malarial, acute febrile illness in a rural hospital in Malawi</i>
Anthony Mefford	Neurology	<i>Multimodal Phenotypes of Medically-Refractory Post-Traumatic Epilepsy</i>
Amar Nijagal	Surgery	<i>Novel immune mechanisms regulating the balance between homeostasis and malignancy in the developing liver</i>
Jerry Nutor	Family Health Care Nursing	<i>Exploring HIV-related stigma among pregnant and postpartum women living with HIV in Ghana</i>

2023 University of California Hellman Fellows

Erica Sedlander	Social and Behavioral Sciences Institute for Health and Aging	<i>Advancing our understanding of attitudes, beliefs, and social norms related to infertility in Tanzania</i>
Lauren Suchman	Institute for Health and Aging	<i>Understanding Management of Menopausal Symptoms for Women Living with HIV: A Qualitative Study</i>
Natalie Wilson	Community Health Systems	<i>HOPE: Transforming Mental Health and Well-being Service Delivery in Black Communities</i>

UC Santa Barbara

Brandon Green	Chemistry and Biochemistry	<i>Thiyl radical control in enzyme catalysis</i>
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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>
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>

2023 University of California Hellman Fellows

UC Santa Cruz

Megan Boudewyn

Psychology

Neural Stimulation and Attentional Control

Valerie Cortez

Molecular, Cell and Developmental Biology

Probing host-virus interactions at the gut mucosal barrier

Kathleen Gutierrez

History

*1) Sovereign Vernaculars in the Philippines
at the Dawn of New Imperial Botany
2) Sowing Seeds: Filipino American Stories from the Pajaro Valley*

2023 University of California Hellman Fellows

Josephine Pham	Education	<i>The Intellectual Work of K-12 Ethnic Studies Pedagogies in Local Public Schools</i>
Alicia Riley	Sociology	<i>Consequences of the Mexican Repatriation Program for Child Mortality in the U.S.</i>
Kate Ringland	Computational Media	<i>Computationally Supported Care in Marginalized Online Communities</i>
Pamela Rodriguez-Montero	Performance, Play & Design	<i>Los Diablitos: The Devil's Imaginary in Traditional Latin American Festivities</i>
Yuyin Zhou	Computer Science & Engineering	<i>Distributed Machine Learning with Imperfect Supervision and an Application to Large-Scale Medical Imaging</i>