# Hellman Family Faculty Fund

Current and
Past award Recipients
1995-2020

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**Yi-Ren Ng,** Electrical Engineering and Computer Science, Oz Vision: New Principles for Color Display and an Experimental Platform for Neuroscience

Jason Okonofua, Psychology, Empathic Discipline and Respect in K-12 Schooling

Caitlin Rosenthal, History, The Business of Business Education

**Simon Schleicher,** Architecture, Robotic Fabrication and Construction in Architecture

**Daniel Stolper,** Earth and Planetary Science, *The Past as the Key to Our Warm Future: Using the Rock Record to Predict Climate Change* 

**Dmitry Taubinsky,** Economics, The Behavioral Economics of State-Run Lotteries

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**Raluca Ada Popa**, Electrical Engineering and Computer Sciences, *Enabling collaborative* analytics on private data

**Avani Sood**, Law, What's So Special About General Verdicts? Experimentally Exploring the Legal and Psychological Consequences of Special Versus General Verdicts in Criminal Law

Mahesh Srinivasan, Psychology, Reasoning about Religious Norms

**Hayden Taylor**, Mechanical Engineering, *Processes for manufacturing 3D structures in very soft polymeric materials* 

Dan Weisz, Astronomy, Uncovering the Origin of the Elements

Emily Zazulia, Music, Theorizing Difficulty in Late-Medieval Music

**David Anthoff**, Energy and Resources Group, *Social Cost of Carbon Estimation for Climate Policy* 

Mathijs de Vaan, Business, The social structure of the opioid epidemic

**Iryna Dronova**, Landscape Architecture & Environmental Planning, *Urban resilience to intensifying heat under different climatic and socioeconomic contexts* 

Ellen Evers, Business, Understanding collecting

**Hernan Garcia**, Molecular & Cell Biology, *The Dynamical Embryo: Technology for a Movie-Based View of Developmental Biology* 

**Stephan Lammel**, Molecular & Cell Biology, *An ethological approach towards understanding the effects of chronic stress in the brain* 

**Anneka Lenssen**, History of Art, Being Mobilized: The Arts of Modernist Enlivening in Syria and the Arab East, 1930-1967

**Aila Matanock**, Political Science, *Invited Intervention: A Mechanism for Rule of Law in Weak States* 

**Baoxia Mi**, Civil and Environmental Engineering, Artificial Evapotranspiration for Seawater Desalination

**James Olzmann**, Nutritional Sciences & Toxicology, Cellular mechanisms to regulate fuel storage and mobilization

James Sallee, Agricultural and Resource Economics, Heterogeneity, Equity, and Energy Policy

**Elena Schneider**, History, The Occupation of Havana: War, Trade, and Slavery in the Eighteenth-century Atlantic World

Rachel Stern, Law, Judicial Transparency in China

**Matthew Traxler**, Plant & Microbial Biology, Mining Unexplored Microbiomes for Antibiotics Discovery using Mass Spectral Imaging

**Andrew Atwood**, Architecture, In My Own Backyard: New Tools and Strategies for ADU Design, Development and Construction

**Helen Bateup**, Molecular & Cell Biology, Modeling neurodevelopmental disorders using human cortical organoids

**Thomas A. Courtade**, Electrical Engineering & Computer Sciences, An Information-Theoretic Approach for Improving Speed and Reliability of DNA Assembly

**Victor Couture and Benjamin Faber**, Business, Economics, *The Gains from Online Integration: Evidence from County-Level Panel Data in China* 

**Kathryn De Master**, Environmental Science, Policy and Management, *Buying the Farm: The Financialization of Rural America* 

**Stephanie Jones-Rogers**, History, Seaborne: African Captivity, Pregnancy, Childbirth, and Belonging in the Middle Passage

**Ming Leung**, Business, Casting a wider net: An investigation into whether having more women apply to male dominated jobs will improve the gender imbalance

**Christopher Palmer**, Business, Who Benefitted from the Federal Reserve's Unconventional Monetary Policy?

**Sugata Ray**, Art History, Geoaesthetics in the Little Ice Age: Sensorium, Sacrament, and Artistic Cultures in Braj, ca. 1550–1850

**Tina Sacks**, Social Welfare, *The Long Reach of the Tuskegee Syphilis Study: Exploring Trauma and Resilience Among Study Descendants* 

Poulomi Saha, English, Object Imperium and Global Theory Collaboration

**Kaoru Saijo**, Molecular & Cell Biology, *Effects of environmental factors and sex hormones on major depression disorders* 

**Daniel Schneider**, Sociology, The Effects of Work Hour Instability on the Wellbeing of Workers and their Families: Evidence from Changes in Company Practices and Law

**Ian Wang**, Environmental Science, Policy and Management, *Genomic Responses to a Century of Climate Change in California* 

**Caroline Williams**, Integrative Biology, Balancing supply and demand: modulation of energy efficiency during life history evolution

**Danny Yagan**, Economics, College and Intergenerational Mobility: New Evidence from Administrative Data

**Charisma Acey**, City & Regional Planning, Exploring the Human Right to Water Paradigm in Urban and Peri-Urban Water Governance

**Anil Aswani**, Industrial Engineering and Operations Research, *Addressing Food Insecurity in Underserved Communities Using Operations Researc* 

**Daylet Dominguez**, Spanish & Portuguese, Ethnography, Literature, and National Projects in the Hispanic Caribbean

**Aaron Fisher**, Psychology, Isolating hyperarousal in PTSD: Targeting potential sources of physiologic dysregulation

**Daniel Fisher**, Anthropology, *The Country in the City: Urbanization and 'Emergency Response' in Northern Australia* 

Peter Jenks, Linguistics, A Database and Grammar of Moro

Lauren Kroiz, History of Art, Cultivating Citizens: The Regionalist Work of Art in the New Deal Era

**Laurel Larsen**, Geography, Quantifying the importance of groundwater for fish habitat in California's intermittent streams

**Lisa Maher**, Anthropology, (Re)Constructing and Using Space in Prehistory: Exploring Technologies, Domestic Activities and Communal Living at a 20,000-Year-Old Hunter-Gatherer Site in Jordan

Angela Marino, Theater, Dance & Performance Studies, Fiesta Performance and Governance

Evan Miller, Chemistry, New Chemical Tools for Optically Recording Neuronal Activity

Saira Mohamed, School of Law, The Law and Culture of Disobeying Illegal Orders

**Scott Moura**, Civil & Environmental Engineering, *Optimally Fast-Safe Battery Charging via Pseudospectral Methods* 

**Grace O'Connell**, Mechanical Engineering, Effect of disc herniation repair on tissue remodeling and joint function

**Andrea Roth**, School of Law, An Investigation of the Emerging Police Practice of Maintaining Local Databases of "Volunteered" and "Abandoned" DNA

**Alexandra Saum-Pascual**, Spanish and Portuguese, *Hispanic Legacies: The Trace of Experimental Writing in Spain and Latin America (An Electronic Literature Project)* 

**Nicholas Swanson-Hysell**, Earth and Planetary Science, *Did Earth lose its balance 800 million years ago? Testing the planetary reorientation hypothesis using the Zavkhan Volcanics of Mongolia* 

Lisa Trever, History of Art, Ancient Andean Art, Archaeology, and Molecular Science

Ke Xu, Chemistry, Spectrally resolved multicolor super-resolution microscopy

Jie Yao, Materials Science & Engineering, New Material Platform for Future Smart Windows

**Wenjun Zhang**, Chemical & Biomolecular Engineering, *Biosynthesis of tagged natural products and their applications* 

**Reza Alam**, Mechanical Engineering, Mitigating Epileptic Seizures via Localization: Theory and Experiment

Timothy Clarke, Department of Philosophy, Aristotle and Parmenides

Nadia Ellis, Department of English, "Archives of the Non-Racial" and the Diasporic City

**Seth Finnegan**, Integrative Biology, Comparative energetics of tropical marine mollusk communities in space and time

Stavros Gadinis, School of Law, Global Technocrats: The Spread of International Standards

**Mariska Kriek**, Department of Astronomy, *The Origin and Fate of Compact Quiescent Galaxies in the Early Universe* 

Alastair Lawrence, Haas School of Business, SEC Comment Letters and Investor Inattention

Polina Lishko, Molecular & Cell Biology, Investigating the role of the BK potassium channel in asthma

**Thomas Maimone**, Department of Chemistry, New Synthetic Strategies Directed Toward Neurologically Active Natural Products

David Marno, Department of English, "Holy Attention: Religious Origins of a Secular Concept"

G. Christina Mora, Department of Sociology, Latino Migration and Classification

Gabriel Orebi Gann, Department of Physics, Towards Large-Scale Dark Matter Detection

**Diego Pirillo**, Department of Italian Studies, *Renaissance Intelligencers: Information, Persecution and the Making of Modern Diplomacy* 

**Carolina Reid**, City and Regional Planning, The Intent, Implementation and Impact of the Community Reinvestment Act

**Erica Rosenblum**, Environmental Science, Policy & Management Anthropology, *A genomic approach to understanding emerging diseases of wildlife* 

**Shawn Shadden**, Mechanical Engineering, Simulating cerebral autoregulation: A gateway to modeling stroke

**Valerie Shapiro**, School of Social Welfare, Reducing mental, emotional, and behavioral problems in youth through prevention services: Understanding the growth of protective factors to guide service delivery

**Sarah Stanley**, School of Public Health, *Understanding the role of nitric oxide signaling during M. tuberculosis infection* 

**Sally Thompson**, Civil & Environmental Engineering, Could restoring the pre-European fire regime increase the resilience of water supply and forests in the Sierra Nevadas?

Dana Carney, Haas School of Business, The Incredible Power of Ordinary, Everyday Nonverbal Cues

**Abigail De Kosnik**, Theater, Dance and Performance Studies, *FanData*: Counting Archives and Networks

**Cybelle Fox**, Sociology, The Rise of Citizenship and Legal Status Restrictions in American Social Welfare Policy

Brett Green, Haas School of Business, Overcoming product market frictions in poor countries

**Darya Kavitskaya**, Slavic Languages and Literature, The Documentation of the Northern Dialect of Crimean Tatar

**Richard Koci Hernandez**, School of Journalism, *The Cannon and the Flower: War, a family and the transcendent power of music [A Study of Transmedia]* 

**Yaniv Konchitchki**, Haas School of Business, Taking the Pulse of the U.S Economy Using Financial Statement Analysis and Stock Market Returns

**Panos Patatoukas**, Haas School of Business, *Taking the Pulse of the U.S Economy Using Financial Statement Analysis and Stock Market Returns* 

**Daniel Nomura**, Nutritional Science and Toxicology, Massively Parallel Mapping of Dysregulated Oncogene-Driven Metabolic Pathways in Cancer

**Tapan Parikh**, School of Information, Local Ground-Increasing Youth Data Literacy Using Contextually Grounded Mapping and Visualization Tools

**Matthew Potts**, Environmental Science, Policy and Management, *Conservation of biodiversity in working tropical landscapes* 

Elizabeth Purdom, Statistics, Statistical Methods for the Clustering of mRNA-seq Data

David Romps, Earth & Planetary Science, Cloud Statistics Using Stereo Photography

Namwali Serpell, English, Faces

Jun Sunseri, Anthropology, Tshimbupfe-Berkeley Collaborative Archaeology Project

Karen Tani, School of Law, States of Dependency: Welfare, Rights and American Governance, 1935-1965

Emily Thornbury, English, Rebuilding Anglo-Saxon Texts

**Michael Anderson**, Agricultural and Resource Economics, *The Effects of Car Ownership on Locational Choice, Earnings, Energy Usage, and Health* 

**Diliana Angelova**, History of Art, Radiocarbon Dating of Byzantine Bone and Ivory Boxes

**Clayton Critcher**, Haas School of Business, *How Legislating Political Niceness Has Encouraged Political Nastiness* 

**Julianna Deardorff**, School of Public Health, Early adversity exposure and Mexican American adolescents' pubertal development, sexual risk-taking behaviors and substance use

**Danielle Ercek**, Chemical and Biomolecular Engineering, *In vitro nanobioreactors: Investigating the effects of encapsulation on enzyme kinetics* 

Beate Fricke, History of Art, Life in the making: Creation, procreation and mimesis in the late Middle Ages

**Ming Hsu,** Haas School of Business, How does the brain represent brands? Toward a neuroscientific basis of consumer behavior

**Malo Hutson**, City and Regional Planning, *Deepening Their Roots: The Urban Struggle for Economic, Environmental, and Social Justice* 

**Katerina Linos**, School of Law, Rights on the Ground: International Organizations, National Institutions and the Protection of Fundamental Rights

**Michael Lustig**, Electrical Engineering and Computer Sciences, *Bespoke Coils: High-Sensitivity Flexible MRI Coils via Printed Electronics* 

**Mairi McLaughlin**, French, The Origins and Evolution of Journalistic French: From the First Periodical (1631) to the French Revolution (1789)

**Mahasin Mujahid**, Public Health, The Influence of Neighborhood Environments on Management of Type II Diabetes

**Holger Müller**, Physics; LBNL, *Ultrafast x-rays and ultracold atoms* 

**Daniel Sargent**, History, Making Globalization: Power, Integration, and Governance in the Modern World Economy

**Kyle Steinfeld**, Architecture, Visualization Tools for Climate-Calibrated Design

Michiko Taga, Plant and Microbial Biology, Shared Corrinoid Production in Microbial CommunitiesLauren Williams, Mathematics, Applications of combinatorics to statistical physics and integrable systems.

**Pieter Abbeel**, Electrical Engineering & Computer Sciences, *Large-Scale Machine Learning for Connectomics* 

**Duncan Callaway**, Energy & Resources Group, How big is the efficiency resource? Scalable evauluation of building enrgy efficiency potential and performance

**Stephanie Carlson**, Environmental Science, Policy & Management, *Dynamics of a Threatened Ogranism in a Seasonally Fragmented Stream Habitat* 

**Jacob Dalton**, East Asian Languages & Cultures/ South & Southeast Asian Studies, *On the Origins and Early Development of Tantra, Buddhist Ritual Manuals from Dunhuang* 

**Damian Elias**, Environmental Science, Policy & Management, *Mechanisms of Multimodal Integration: An evolutionary approach* 

**Munis Faruqui,** South & Southeast Asian Studies, The Saiyid Barkat Ali Collection in the Re-evaluation of Emporer Aurangzeb's Legacy

Keith Feldman, Ethnic Studies, Special Relationships: Israel, Palestine, and U.S. Imperial Culture

**Meredith Fowlie**, Agricultural & Resource Economics, *Greenhouse Gas Emissions Reductions from Wind Energy: Location, Location, Location?* 

William Fuchs, Haas School of Business, Bargaining and Trade in Thin Markets with Private Information

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Yuriy Gorodnichenko, Economics, Genes, socioeconomic outcomes and economic development

**Lin He**, Molecular & Cellular Biology, The molecular mechanisms regulating the organ specificity of tumor metasis

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**Craig Miller**, Molecular & Cellular Biology, Finding the genes that promote bone gain

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Tina Trujillo, Education, An Exploratory Study of Teach For America and Civic Engagement

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**Ronald L. Rael**, Architecture, Developing 3D Printing for the Rapid Manufacture of Ceramic Building Components

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Sayeef Salahuddin, EECS, All Spin Logic for Ultra Low Power Computing

**Laura Sterponi**, Education, Rethinking echolalia: Repetition as interactional resource in the communication of children with autism

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**Leonardo Arriola**, Political Science, *Power Sharing in Africa: Explaining Bargaining Outcomes After Disputed Elections* 

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**Charles Blanton**, English, Epic Negation: The Dialectical Poetics of Late Modernism, Aftereffects: Late British Style

**Rauri Bowie**, Integrative Biology, Novel approaches for combining climate modeling with genetic data: birds from the Eastern Arc Mountains of Africa as a case study with which to test the evolutionary importance of stability

**Mary M. Cavanaugh**, Social Welfare, The Dialectical Psychoeducational Workshop (DPEW) for Males At Risk for IPV: A Pilot Randomized Controlled Trial

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**Melinda Chen**, Gender & Women's Studies, Leaded Bodies as Toxic Assests: National and Corporeal Security in Notions of Toxicity

James Davies, Music, Romantic Neuro-science in Musical Performance, 1800-1845

**Nicholas de Monchaux**, Architecture, Local Code: Towards Place-Based Intelligence in Prefabricated Design

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Karsten Gronert, Optometry, Harnessing Endogenous Protective Circuit to Preserve Vision

**Maria Paz Gutierrez**, Architecture, Building environmental control: thin film integration of hygrosensors and thermoelectrical/photovoltaic coating technologies for higher energy efficiency envelopes

**Robert Kaufman**, Comparative Literature, Modernism After Postmodernism? Robert Duncan and the Future-Present of American Poetry

Nicole King, Molecular & Cell Biology, Insights into animal origins by comparative genomics of Sponges

Han Lim, Integrative Biology, Jamming the small RNA signals required for bacterial survival and infection

Tania Lombrozo, Psychology, Empirical investigations of explanation and inference

Ana Maria Martinho, Spanish & Portuguese, Culture, Media and Politics in Angola

**Amani Nuru-Jeter**, Public Health, The Psychological Effects of Racism Stress Among Black Women of Childbearing Age

**Celine E. Pallud**, Environmental Science, Policy, & Management, The future of the Salton Sea: Coupling transport and biogeochemical processes affecting selenium mobility

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**Chelsea Specht**, Plant and Microbial Biology, *The evolution of adaptive floral morphology in an ecologically important group of tropical monocots* (*Zingiberales*)

**Chenxi Tang**, German, *Imagining World Order: International Law and Literature from the Renaissance to the Nineteenth Century* 

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**Evan A. Variano**, Civil & Environmental Engineering, Developing 3D Imaging and Velocimetry for Coastal and Riverine Sediment Motion

**Leigh Raiford**, African American Studies, *Imprisoned in a Luminous Glare: Photography and the African American Freedom Struggle* 

Geoffrey Bower, Astronomy, The Fly's Eye: Opening a New Window on Fast Radio Transients

**Sanjay Kumar**, Bioengineering, Engineering molecular and cellular function through unstructured protein doma

**Seung-wuk Lee**, Bioengineering, Development of Novel Drug Delivery Vehicles Using Genetically Engineered Viruses

**Mohammad Mofrad**, Bioengineering, Multiscale Models of the Bicuspid Aortic Valve: Linking Whole Organ to Cells

**Christopher Chang**, Chemistry, Revealing Basic Mechanisms of Metal Function in the Brain through Molecular Imaging

**Richmond Sarpong**, Chemistry, Alleviating the Environmental and Economic Cost of Synthesizing Complex Molecules to Combat Lung Cancer

**Maneesh Agrawala**, Electrical Engineering and Computer Science, *Design Principles, Algorithms, and Interfaces for Visual Communication* 

**Sanjit Seshia**, Electrical Engineering and Computer Science, *Provably Error-Resilient Computing at Low Cost* 

**Rodrigo Almeida**, Environmental Science, *Policy and Management, Disrupting the transmission of insect-borne grapevine pathogens* 

**Perry de Valpine**, Environmental Science, *Policy and Management*, *Estimating predictability of ecological population dynamics* 

**Sean Farhang**, Goldman School of Public Policy, Why Does Congress Choose Lawsuits for Regulatory Enforcement?

**Randi Engle**, Graduate School of Education, Framing Learning Contexts to Promote Transfer: An Experimental Study

Michael Deweese, Helen Wills Neurosciene Institute, A rodent model of selective auditory attention

**Michael Silver**, Helen Wills Neurosciene Institute, *Pharmacological studies of spatial integration and visual perception in macular degeneration patients* 

Carlos Noreña, History, Mapping Urbanization in the Roman Empire

**Rachel Brem**, Institute for the Quantitative Biosciences, Signaling behaviors of the unfolded protein response in aging

Daniela Kaufer, Integrative Biology, Rescuing neural stem cells from age-related silencing

**Russell Vance**, Molecular and Cell Biology, *How are infections detected? A novel immune pathway for sensing bacterial pathogens* 

Qing Zhong, Molecular and Cell Biology, Degradation of Organelles

**Sabrina Agarwal**, Anthropology, Understanding Bone Maintenance and Fragility over the Life Course in a Neolithic Archaeological Population

Joshua Bloom, Astronomy, Studying Black Hole Growth: A New Window with New Surveys

Hillary Elfenbein, Business, On the Intuition That Some Negotiators Are Better Than Others

Rachel Segalman, Chemical Engineering, Nanopatterning Organic Photovoltaics

**Fotini Chow**, Civil & Environmental Engineering, Atmospheric boundary layer dynamics over complex terrain: turbulent processes and land-surface forcing

**Jose Carmena**, Electrical Engineering & Computer Sciences, Sensori-motor neuroprosthesis for the neurologically impaired

**Claire Kremen**, Environmental Science, Policy & Management, *How does biological diversity promote ecosystem services: a mechanistic study of almond crop pollination in a changing California landscape* 

**Deborah Blocker**, French, How "art" became "art": discourses on the "arts" in early modern Europe (1500-1800)

**Victoria Frede**, History, *The Making of Russian Atheism*, 1780-18705

**Abena Osseo-Asare**, History, Bitter Roots: Medicine, Markets and the Search for Healing Plants in Africa

Sheila Patek, Integrative Biology, Evolutionary physiology of communication in the sea

**Gregory Barton**, Molecular and Cell Biology, *Identification of mechanisms preventing autoimmunity due to Toll-like reception activation by self nucleic acids* 

**Irfan Siddiqi**, Physics, Single Molecule Magnetometry: A Route to Testing the Limits of Quantum Mechanics

Arash Komeili, Plant & Microbial Biology, Biomineralization of Magnetic Minerals in Bacteria

**Lance Kriegsfeld**, Psychology, Impact of Chrono-Neuroendocrine Disruptions on Adult Neurogenesis and Cell Death

**Sandra Smith**, Sociology, Exploring Racial and Ethnic Differences in the Mobilization of Social Resources for Job-Finding

**Lisa Wymore**, Theater, Dance & Performance Studies, *Immersive Choreography: The expansion of perceptual and haptic formations of the body in relationship to real and virtual worlds through the development and analysis of new modes of choreography utilizing 3D Tele-Immersion technology* 

**Ernesto Dal Bó**, Business, *Political elites and the dynastic transmission of power*.

Philip Lewis Geissler, Chemistry, Designing DNA sequences that organize nanocrystal arrays.

**Todd M. Hickey**, Classics, Reading the Papyri of a Priestly Family: Social Relations and Cultural Negotiation in Egypt under Roman Rule.

**Richard Allen**, Earth & Planetary Science, New insights into subduction and megathrust earthquakes in the Pacific Northwest.

**Dan Klein**, Electrical Engineering and Computer Science, *Linguistically Rich Statistical Machine Translation*.

**Justin Brashares**, Environmental Science, Policy & Management, *Bushmeat Hunting and Wildlife Dynamics in West Africa*.

**George Bentley**, Integrative Biology, Gonadotropin-Inhibitory Hormone: A Newly-Identified Component of the Vertebrate Reproductive System.

**Leslea J. Hlusko**, Integrative Biology, Searching for our ancestors: Surveying for new fossil sites in Tanzania.

**Anne M. Joseph**, Law, Called to Account by Separated Powers: Regulatory Activity, Oversight, and Turnover of Federal Agency Leaders.

**Lynn Nichols**, Linguistics, *Defective Nouns and the Complexity of Noun Meanings*.

**Jan T Liphardt**, Physics, Development and Characterization of Light-controlled and - powered "Biobots", inherently Safe Programmable Cellular Automata.

**Ashvin Vishwanath**, Physics, Non-Equilibrium Phenomena and New Transitions in Interacting Quantum Systems.

**Darlene D. Francis**, Psychology & Public Health, *Life-Stressors and Telomeric Aging: A Rat Model to Investigate Individual Differences in Vulnerability*.

**Rodolfo Mendoza-Denton**, Psychology, Effects of Prejudice on Cardiovascular Health.

**Jonathan D. Wallis**, Psychology & Neuroscience, *Role of Prefrontal Cortex and Dopamine in Control of Choice Behavior*.

**Corinne Hayden**, Anthropology, (At) the end of the patent: Generic medicines and the "health of the public" in Mexico.

**Saba Mahmood**, Anthropology, Secular Islam and its Discontents: The Case of Middle East and South Asia.

**Daniel Fletcher**, Bioengineering, Some assembly required: Rebuilding the actin motility machinery.

Haw Yang, Chemistry, Visualizing Complex Biochemical Processes at the Single-Molecule Level.

**Jiwon Shin**, East Asian Languages and Culture, *Intimate Objects: The Circulation of Literature in Late Chosôn Korea*.

**Rastislav Bodik**, Electrical Engineering and Computer Science, Computer Science Division, *Programming by Sketching*.

**Donna Jones**, English, Promise of European Decline: Vitalism, Aesthetic Politics and Race in the Interwar Years.

Sara McMains, Mechanical Engineering, Real-time Design for Manufacturability Feedback.

**David Bilder**, Molecular and Cell Biology, *Identification of Malignant Tumor Suppressors via a Novel Genetic Screen in Drosophila*.

**Michael B. Eisen**, Molecular and Cell Biology, *Genomic Dissection of the Fungal Infection Responsible for Global Amphibian Decline*.

**Shahwali Ahmadi**, Near Eastern Studies, Parables of Memory and Vision: Anomalies of History and Form in Modern Fiction of Afghanistan.

**Yasunori Nomura**, Physics, Exploring New Physics at the TeV Scale.

**Taeku Lee**, Political Science, Between Social Theory and Social Science Practice: Towards a New Approach to the Survey Measurement of 'Race'.

**Irene Bloemraad**, Sociology, Organizing for Political Voice: The Role of Community Organizations in Immigrant Political Incorporation.

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**Sharon Amacher**, MCB, Genetics and Development, Fishing the Genome for Transcription Factor Targets and cis Regulatory Code

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**Marian Feldman**, Near Eastern Studies, *The Shared Culture of Wall Painting in the Eastern Mediterranean*, 2000-1500 BC

Matthew Francis, Chemistry, Modified Viral Capsids as Targeted Delivery Vectors for Anticancer Agents

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**Carla Hudson Kam**, Psychology, The Domain Specificity of Learning Mechanisms and Regularization: Is it Really Just Language?

**Alessandra Lanzara**, Physics, Unlocking the Mystery of Materials at the Nanoscale by Enhancing the Investigation of Electronic Structure

**Song Li**, Bioengineering, Engineering of Functional Muscle in vitro Using Mesenchymal Stem Cells and Micropatterned Polymers

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**Jack Glaser**, Public Policy, The Effect of Knowledge of the Possibility of Death Sentence on Jurors' Judgments of Guilt

**Alexander Katz**, Chemical Engineering, Engineering Materials on the Nanoscale for Enantioselective Molecular Recognition and Fullerene Separations

Botond Koszegi, Economics, Economic Models of Utility from Anticipation

**Joel Moore**, Physics, Theory of Collective Quantum Phenomena in Nanostructured Materials

Greg Niemeyer, Art Practice, Interactive Voice Box Simulation

Per Jakob Palsboll, Environmental Science, Policy and Management, Molecular Scatology

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Niek Veldhuis, Near Eastern Studies, Digital Corpus of Cuneiform Lexical Texts

Kipling Will, Environmental Science, Policy and Management, Poison Beetles

Noam Sobel, Neuroscience, Odortopy: Are Odors Spatially Mapped in the Brain?

Karsten Weis, MCB: Cell & Developmental Biology, Regulation and Dynamics of the Ran GTPase Cycle

**Dirk Trauner**, Chemistry, Molecular Recognition of Potassium Channels

**Steven Boggs**, Physics, Test Flight of the Nuclear Compton Telescope

Dan Stamper-Kurn, Physics, In-situ Imaging of Spinor Bose-Einstein Condensates

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**Cheryl J. Briggs**, Integrative Biology, *Indirect Effects of Colonization of Native Insects onto Non-native Plant Species in California*.

**Matthew Welch**, Molecular and Cell Biology, *Regulation of Actin Nucleation and Actin Based Motility by the Wiscott-Aldrich Syndrome Protein*.

**David Schaffer**, Chemical Engineering, Chemically Engineering Adeno-Associated Viral Vehicles for Enhanced Gene Delivery

Peidong Yang, Chemistry, Nanorod Superstructures

**Khalid Mosalam**, Civil and Environmental Engineering, *Innovative Rehabilitation and Computational Modeling of Monumental Structures Using Polymer Composite Systems* 

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**Kristie Boering**, Chemistry/Geology & Geophysics, Measuring Isotopes in the Stratosphere: From Ozone Depletion to the Global Biosphere

**Xu Liang**, Civil and Environmental Engineering, A Study Linking Climate, Water Resources Management, Agriculture, and Engineering Economics

**Christopher Vulpe**, Nutritional Sciences, *Monitoring the metabolic response of plants to metals using cDNA microassays* 

**Marti Hearst**, Information Management & Systems, Automated Usability Evaluation for Information-Centric Web Sites

Shawn Brixey, Digital Art Practice, "Eon" for the Beall Center for Art and New Media, UC Irvine

Jennifer Miller, English, La3amon's Brut and English Historiography; Multilingualism in Medieval Britain

Nicholas Paige, French, Mysteries of Culture in Early Modern France

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David Henkin, History, Going Postal: Mail Culture in 19th Century America

Laura Perez, Ethnic Studies, Contemporary Chicana Art Books

**Priya Raghubir**, Haas School of Business, Money, Money, Money: It's not the same by another name

**Nan Crystal Arens**, Integrative Biology, Can Species Richness and Community Stability Predict Propensity for Extinction? Plant Communities Across the Cretaceous-Tertiary Boundary

**Eileen Lacey**, Integrative Biology, Evolution of Behavioral and Genetic Diversity in Subterranean Rodents

**Roland Bürgmann**, Geology & Geophysics, Mechanics of Himalayan Collision and Associated Tibetan Extension

**Douglas Dreger**, Geology & Geophysics, Three Dimensional Analysis of the Earthquake Rupture Process

William Holzapfel, Physics, Prototype 90 GHz Receiver for the CBI Telescope

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**Jack Colford**, Public Health, Application of Density Equalized Map Projections to Evaluate Spatial Clustering of Cryptosporidiosis in San Francisco

Fenyong Liu, Public Health, Development of ribozymes as novel gene-targeting agents

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Laurie Wilkie, Anthropology, 1998 Archaeological Excavations at Clifton Plantation, Bahamas

Peter Zinoman, History, Vu Trong Phung and Literary Modernism in Vietnam

Aditya Behl, South and Southeast Asian Studies, Rasa and Romance: The Avahdhi Sufi Premakhyans

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Lars Bildsten, Physics & Astronomy, Temporal Variability in Stellar Astrophysics

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**Allen Goldstein**, Environmental Science, Policy and Management, A Field-Based Study of Sierra Nevada Forest Response to Anthropogenic Ozone and Nitrogen Deposition

Priya Joshi, English, Gifts of Empire: British Popular Fiction & the Development of the Novel in India

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Anne Nesbet, Slavic Languages and Literatures/Film, The Dialectical Image

Darcy Grimaldo Grigsby, History of Art, Painting Empire in Post-Revolutionary France

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Tracy Handel, Molecular and Cell Biology, De Novo Design of Membrane Proteins.

Alan Sachs, Molecular and Cell Biology, Functional Interactions Between Messenger RNA 5' and 3' Ends

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Nada Eissa, Economics, The Econometrics of Differences-in-Differences Regression Models

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**Carla D'Antonio**, Integrative Biology, Species interactions and community change in a montane meadow ecosystem

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