

# Hellman Family Faculty Fund

Current and  
Past award Recipients  
1995-2019

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## 2019 Award Recipients

**David Bamman**, Electrical Engineering and Computer Science, *Representation Learning for the Discovery of Musical Influence*

**Anna Livia Brand**, Landscape Architecture and Environmental Planning: *Claiborne on the Verge: The Black Mecca in 21<sup>st</sup> Century America*

**Courtney Dressing**, Astronomy, *Characterizing Planetary Systems Orbiting Nearby Stars*

**Rebecca Herman**, History, *Antarctica, Latin America, and the Global South*

**Asma Kazmi**, Art Practice, *Beyond the Seas Blue*

**Britt Koskella**, Integrative Biology, *The Impact of Agriculture on Microbiome-mediated Protection Against Pathogens*

**David Limmer**, Chemistry, *Path Integral Molecular Dynamics Simulations of Hybrid Halide Perovskites*

**Jonas Meckling**, Environmental Science, Policy, and Management, *The Politics of Innovation: The Durability and Growth of Low-carbon RD&D Policy*

**Rikky Muller**, Electrical Engineering and Computer Science, *Networks of Neural Dust*

**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*

## 2018 Award Recipients

**Joshua Blumenstock**, Information, *Evaluating Community Cellular Networks: How Does Mobile Connectivity Affect Isolated Communities?*

**Carl Boettiger**, Environmental Science, Policy, and Management, *Big Data, Big Uncertainty: Ecological Decision Theory for the 21st Century*

**Anne Collins**, Psychology, *Learning value from goals*

**Danika Cooper**, Landscape Architecture and Environmental Planning, *Waving a Magic Wand: Contemplating the Future of Water Management in Phoenix, Arizona*

**William Fithian**, Statistics, *Interactive Data Analysis and Replicability*

**Sanjam Garg**, Electrical Engineering and Computer Sciences, *Towards Cryptography from Minimal Assumptions*

**Laura Lammers**, Environmental Science, Policy, and Management, *Optimizing phosphorus recovery and reuse for agrifood sustainability*

**Arthur Middleton**, Environmental Science, Policy, and Management, *Evaluating patterns of puma predation to reduce human-wildlife conflicts in Patagonia*

**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*

## 2017 Award Recipients

**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*

## 2016 Award Recipients

**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*

## 2015 Award Recipients

**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 Research*

**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*

## 2014 Award Recipients

**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?*

## 2013 Award Recipients

**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*

## 2012 Award Recipients

**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 Communities*

**Lauren Williams**, Mathematics, *Applications of combinatorics to statistical physics and integrable systems.*

## 2011 Award Recipients

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

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

**Stephanie Carlson**, Environmental Science, Policy & Management, *Dynamics of a Threatened Organism 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 Faruqi**, South & Southeast Asian Studies, *The Saiyid Barkat Ali Collection in the Re-evaluation of Emperor 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*

**Susanne Gahl**, Linguistics, *Speaking "Up": Language development in Michael Apsted's "Up" film series*

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

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

**Karl Kullmann**, Landscape Architecture & Environmental Planning, *Continuously Variable Density: Towards Topographically Sensitive Urbanism*

**Cindy Looy**, Integrative Biology, *The Late paleozoic deglaciation and evolution of conifers*

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

**Tamara Roberts**, Music, *Play Good: The Culture and Politics of Urban Women's Drumming Communities*



**Janelle Scott**, Education/African American Studies, *An Exploratory Study of Teach For America and Civic Engagement*

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

**Jen-Chywan (Wally) Wang**, Nutritional Sciences & Toxicology, *Mechanisms of Glucocorticoid-induced Insulin Resistance*

**Ahmet Yildiz**, Physics, *The Control of Intraflagellar Transport in Chlamydomonas Reinhardt II*

## 2010 Award Recipients

**Jennifer E. Ahern**, Public Health, *Pilot research with OEF/OIF Veterans on social environment factors protective against substance misuse*

**Sonia J. Bishop**, Psychology, *Identifying the neurocognitive mechanisms disrupted in Anxiety*

**Michelle C. Chang**, Chemistry, *Building new chemical function in living organisms*

**Danica Chen**, Nutritional Sciences and Toxicology, *Identification of Novel Molecular Targets for Breast Cancer Chemoprevention*

**Coye Cheshire**, Information, *Learning to Become a Wikipedian: A Mixed-Method Study of Information Sharing, Collaboration and Online Participation*

**Jeroen Dewulf**, German, *Amerindo Country: The Dutch Eurasian "Indo" Community in the U.S.*

**Kathleen Donegan**, English, *Seasons of Misery: Catastrophe and the Writing of the Colonial Settlement*

**Paul Fine**, Integrative Biology, *The diversification of Amazonian trees: the role of insect herbivores and plant chemical defenses*

**Britt A. Glaunsinger**, Plant and Microbial Biology, *Getting the Message Right: How do Cells Eliminate Flawed RNAs*

**Alastair Iles**, ESPM, *The Policy and Business of Building the Platform Molecules of the Biomass Chemistry Industry*

**Rucker Johnson**, Public Policy, *Long-run Impacts of Head Start & School Quality on Adult Health & Socioeconomic Attainments*

**Jon Kosek**, Geography, *The Making of the Modern Bee: Towards a Critical Natural History of the Honeybee*

**Nicholas Mathew**, Music, *Political Music in Wartime Vienna, 1794-1815*

**Lev D. Michael**, Linguistics, *Documentation and Analysis of Matsigenka, an endangered Amazonian language*

**Benjamin W. Porter**, Near Eastern Studies, *Economic intensification on the Mamluk imperial frontier: A case study from Middle Islamic Dhiban (Jordan)*

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

**Brody L. Reiman**, Art Practice, *Cartographic Itinieraries: Rerouting the Art Object Through the Writer's Home*

**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*

**Joan L. Walker**, Civil and Environmental Engineering, *Revolutionizing Transportation Modeling due to a Revolutionized Data Collection Environment*

**Feng Wang**, Physics, *Probe the Dynamics of Heterogeneous Photocatalysis for Solar Energy*

**Andrew Wurmser**, Molecular and Cell Biology, *Indentification of a novel role for TGF- $\beta$ 1 in the vascularization of glioblastoma multiforme*

**Qing Zhou**, Psychology, *Parent-Child Acculturation Gap in Chinese American Immigrant Families: Development, Process, and impact on Children's Psychological Adjustment and Competence*

## 2009 Award Recipients

**Elad Alon**, Electrical Engineering & Computer Sciences, *Nano-Electro-Mechanical Integrated Circuit Design and Technology*.

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

**Diana M. Bautista**, Molecular & Cell Biology, *Molecular and Cellular Mechanism of Mammalian Touch and Pain*

**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*

**Lu Chen**, Optometry, *Development of New Therapies for Corneal Inflammation and Transplantation*

**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*

**Karen S. Feldman**, German, *"The Importance of the Means": Language and Style in Kant*

**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*

**Beth Piatote**, Ethnic Studies, *Indigenous Literacies*

**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*

**Cihan Tugal**, Sociology, *Piety faces of the Mammon and the Pharaoh: Islamicization as an associational response to the market and the state?*

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

## 2008 Award Recipients

**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 Dewese**, Helen Wills Neuroscience Institute, *A rodent model of selective auditory attention*

**Michael Silver**, Helen Wills Neuroscience 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*

## 2007 Award Recipients

**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, *Biomining 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*

## 2006 Award Recipients

**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.*

## 2005 Award Recipients

**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.*

**Natalia Brizuela**, Spanish and Portuguese, *Between Empire and Republic or on Photographic Melancholy in Brazilian Modernity.*

## 2004 Award Recipients

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

**Ozlem Ayduk**, Psychology, *Continuities in Children's Ability to Delay Gratification Across the Life Span*

**Laurent Coscoy**, MCB, *A Novel Family of E3-Ubiquitin Ligases Regulates the Expression of Key Components of the Immune System*

**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*

**Anne-Lise Francois**, English, *Open Secrets: The Literature of Uncounted Experience*

**Jay T. Groves**, Chemistry, *Surface Chemistry on Cell Membranes*

**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*

**Maria Mavroudi**, History, *Bilingualism in Greek and Arabic: Evidence from the Manuscripts*

**James O'Brien**, EECS, *Combined Audio and Visual Stimulation for Synthetic Environments*

**Isha Ray**, ERG, *From Wells to Well-Being? Water for Women in the Developing World*

**Bryan Wagner**, English, *Disturbing the Peace: Black Vagrancy and the Grounds of Racial Difference*

## 2003 Award Recipients

**Dorothy Beam**, English, *Purple Pleasures: Highly Wrought Fiction by 19th-Century American Women*

**Oscar Dubon**, Materials Science Engineering, *Synthesis of Ferromagnetic Semiconductors*

**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*

**Eliot Quataert**, Astronomy, *Supernovae and the Birth of Compact Objects*

**Ananya Roy**, City and Regional Planning, *The Feminization of Policy: A New Development Paradigm?*

**Jennifer Michel Spear**, History, *Race, Sex, and Social Order in Colonial New Orleans*

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

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

## 2002 Award Recipients

**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*

**Mia Fuller**, Italian Studies, *Mussolini's Citizens: Living in Italy's Fascist-Era 'New Towns', From 1928 to the Present*

**Ramona Ann Naddaff**, Rhetoric, *Censorship and the Novel: Case Studies in the Politics of Reading*

**Jennifer Johnson-Hanks**, Demography, *Reproductive Intentions and Fertility Rates in Developing Countries*

**Edward Miguel**, Economics, *Pre-School Health and Education in Urban India*

**Kurt M. Cuffey**, Geography, *Improved Precipitation Isotope Analyses for Climate Change Studies*

## 2001 Award Recipients

**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*

**Antje Hofmeister**, Plant and Microbial Biology, *Molecular Mechanisms of Bacterial Development*

**Christine F. Wildsoet**, Optometry, *The How and Why of Ocular Growth Regulation: Some Lessons from the Chick and Their Significance for Human Myopia (Short-sightedness)*

**Ying Qing Chen**, Biostatistics, *Statistical Analysis of Long-term Progressive Schizophrenia Deterioration*

**Carolyn Huie Hofstetter**, Education, *Test Accommodations for English Language Learners: Do They Yield Valid Inferences?*

**Kate van Orden**, Music, *Music and Military Virtue in Early Modern France*

**David S. Lee**, Economics, *Empirical Analyses of Unionization and its Economic Consequences: Evidence from Union Representation Elections*

**Kaipeng Peng**, Psychology, *Culture and Cognition*

## 2000 Award Recipients

**Rebecca Heald**, MCB: Cell and Developmental Biology, *Reconstituting mitotic spindle assembly in vitro using Caenorhabditis elegans*

**Qiang Zhou**, MCB: Biochemistry and Molecular Biology, *Recruitment of human positive transcription elongation factor P-TEFb to cellular promoters*

**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*

**Jack Gallant**, Psychology, *Role of Human V4 in Form Vision and Attention*

**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*



## 1999 Award Recipients

**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*

**Jeffrey Long**, Chemistry, *Toward Molecular Data Storage: Design and Synthesis of Metal-Cyanide Cluster Magnets*

**Ronald Cohen**, Chemistry and Geology & Geophysics, *Nitrogen Oxides: Measuring Trends in a Primary Indicator of Atmosphere*

**James Landay**, Electrical Engineering & Computer Sciences, *Computer-aided Drawing for the Visually Impaired*

**Eva Harris**, Public Health, *The Role of Interferon in the Infection of Human Cells by Dengue-2 virus*

**Anne A. Cheng**, English, *The Melancholy of Race*

**Kevis Goodman**, English, *Passionate Work: Georgics of the Feelings, 1746-1815*

**Colleen Lye**, English, *Naturalizing the Pacific Rim: American Literature 1882-1945*

**Mary Ann Smart**, Music, *Mimomania: The Gestural Language of Nineteenth-Century Opera*

**Cathryn Carson**, History, *History of Science in Nuclear Waste Management*

## 1998 Award Recipients

**Yang Dan**, Molecular and Cell Biology: Neurobiology, *Reading the Neural Code in the Mammalian Visual System*

**John Battles**, Environmental Science, Policy and Management, *Does the Early Detection of Neighboring Plants Improve the Survival and Growth of Forest Trees*

**Ignacio Chapela**, Environmental Science, Policy and Management, *Species-Specific Carbon Processing by Fungi in Coniferous Forests*

**Suzanne Fleiszig**, Optometry, *Development of novel therapies for Pseudomonas aeruginosa infection*

**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*

**Stephen Best**, English, *Fugitive Properties: Slavery, Technology, and the Lure of the Material in American Culture*

**Junko Habu**, Anthropology, *Development of Sedentism Among Prehistoric Hunter-Gathers in Japan*

**Xin Liu**, Anthropology, *Moral mathematics: luck, fortune, and authority in late socialist China*

**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*

## 1997 Award Recipients

**Zi Qiang Qiu**, Physics, *Synthesis and Characterization of Magnetic Nanostructures*

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

**James K. McCusker**, Chemistry, *Electron Exchange Coupling in Cluster-Bridged Donor-Acceptor Complexes: Implications for Biological Electron Transfer*

**Susan Marqusee**, Molecular and Cell Biology, *Biological Sciences Dissection of the Protein Folding Problem*

**Lisa A. Pruitt**, Mechanical Engineering, *Surface Modification of UHMWPE for wear resistance of Total Knee Replacements*

**John G. Flannery**, Optometry, *Gene Therapy Approaches to Treatment of Inherited Retinal Degenerations*

**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*

**John H. McWhorter**, Linguistics/African-American Studies, *Martinique Creole Research Project*

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

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

**Rachel A. Schurman**, Energy and Resources Group/Department of Sociology, *Resource-Based Growth in a Global Economy: An Analysis of a Latin American "Success Story"*

## 1996 Award Recipients

**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*

**Roya Maboudian**, Chemical Engineering, *Understanding and Manipulating Surface Forces in Silicon Micro-Mechanical Devices*.

**Yeon-Kyun Shin**, Chemistry, *Mechanism of Cell-Viral Membrane Fusion Induced by HIV gp120-gp41*.

**David Sedlak**, Civil and Environmental Engineering, *The Use of Photochemical Reactions in the Treatment of Metal-Cyanide Containing Hazardous Waste*.

**David Weiss**, Physics, *Experiments with Cold Trapped Atoms*

**Mark Van der Laan**, Biostatistics, *Optimal Methods for Estimation of Survival Distributions with Censored Data and Many Covariates*

**Martin Jones**, Philosophy, *Metaphysics and Quantum Theory*

**Paolo Mancosu**, Philosophy, *From Brouwer to Hilbert: Philosophy of Mathematics in the 1920's*

**Katherine Snyder**, English, *Bachelors, Narrative, and the Novel*

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

**Mariane Ferme**, Anthropology, *State Failures and "Moral" Reforms in Sierra Leone: A Historical and Cultural Study*

**Carol Redmount**, Near Eastern Studies, *Of Silts and Marls: Analysis of Modern Egyptian Pottery and Implications for Ancient Egyptian Ceramics*

## 1995 Award Recipients

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

**Ehud Y. Isacoff**, Molecular and Cell Biology: Neurobiology, *Regulation of synapse development and plasticity by K<sup>+</sup> channels*

**Martin Head-Gordon**, Chemistry, *Local Theories of Quantum Chemistry.*

**Susan J. Muller**, Chemical Engineering, *Novel Experimental Studies of Extensional Flows of Polymeric Liquids*

**James W. Kirchner**, Geology & Geophysics, *Measuring changes in erosion rates due to land use*

**Oliver M. O'Reilly**, Mechanical Engineering, *A Feasible Investigation of Satellite Dynamics*

**Panayiotis Papadopoulos**, Mechanical Engineering, *A Study of Constitutive Models in Finite Plasticity*

**Katherine Bergeron**, Music, *Decadent Enchantments: Gregorian Chant and Modern Aestheticism*

**Eric Naiman**, Comparative Literature, *Slavic Languages and Literature Monumental Intimacy: Privacy and the Shaping of Soviet Life*

**Sharon Inkelas**, Linguistics, *The Lexical Phonology of Turkish*

**Lucia F. Jacobs**, Psychology, *Seasonal changes in spatial behavior, spatial learning and the hippocampus*

**Kathleen James**, Architecture, *Dynamic Functionalism: The Architecture of Erich Mendelsohn, 1918 - 1933*

**Pedro A. Noguera**, Education, *Confronting the Urban in Urban Education: Overcoming the Obstacles to Urban School Reform Through Community Partnership*

**Christina Shannon**, Economics, *Market Distortions in Equilibrium Analysis*