

UCI Sustainability Research Inventory 2021

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Sustainability Research by Department | 2021

School	Department	Sustainability Researcher(s)
Arts	Art	Yes
	Dance	Yes
	Drama	Yes
	Music	Yes
Biological Sciences	Developmental and Cell Biology	Yes
	Ecology and Evolutionary Biology	Yes
	Molecular Biology and Biochemistry	Yes
	Neurobiology and Behavior	Yes
Business	Business	Yes
Education	Education	Yes
Engineering	Biomedical Engineering	Yes
	Chemical and Biomolecular Engineering	Yes
	Civil and Environmental Engineering	Yes
	Electrical Engineering and Computer Science	Yes
	Materials Science and Engineering	Yes
	Mechanical and Aerospace Engineering	Yes
Humanities	African American Studies	Yes
	Art History	Yes
	Asian American Studies	Yes
	Classics	Yes
	Comparative Literature	Yes
	East Asian Studies	Yes
	English	Yes
	European Languages and Studies	Yes
	Film and Media Studies	Yes
	Gender and Sexuality Studies	Yes
	History	Yes
	Philosophy	Yes
Spanish and Portuguese	Yes	
Information and Computer Sciences	Computer Science	Yes
	Informatics	Yes
	Statistics	Yes
Law	Law	Yes
Medicine	Anatomy and Neurobiology	Yes
	Biological Chemistry	Yes
	Microbiology and Molecular Genetics	Yes
	Physiology and Biophysics	Yes
Nursing	Nursing	Yes
Pharmaceutical Sciences	Pharmaceutical Sciences	Yes
	Clinical Pharmacy Practice	No

Physical Sciences	Chemistry	Yes
	Earth System Science	Yes
	Mathematics	Yes
	Physics and Astronomy	Yes
Public Health	Environmental and Occupational Health	Yes
	Epidemiology and Biostatistics	Yes
	Health, Society, and Behavior	Yes
	Population Health and Disease Prevention	Yes
Social Ecology	Criminology, Law and Society	Yes
	Psychological Science	Yes
	Urban Planning and Public Policy	Yes
Social Sciences	Anthropology	Yes
	Chicano/Latino Studies	Yes
	Cognitive Sciences	Yes
	Economics	Yes
	Global and International Studies	Yes
	Language Science	No
	Logic and Philosophy of Science	Yes
	Political Science	Yes
Sociology	Yes	

Department Summary

Total UCI Departments: 60
Total UCI Departments with Faculty Engaged in Sustainability Research: 58
UCI Departments with Faculty Engaged in Sustainability Research: 96.67%

Faculty Summary

Total Number of UCI Faculty Researchers: 1,482
Total Number of UCI Faculty Engaged in Sustainability Research: 475
Percentage of UCI Faculty Engaged in Sustainability Research: 32.05%

Sustainability Research Inventory | 2021

Name	Title, Affiliation	Description	Keywords
M Ackbar Abbas	Professor, Comparative Literature	Studies globalization, Hong Kong and Chinese culture, postcoloniality, and critical theory.	globalization, international, culture, cultural heritage, cultural diversity
Geoffrey Winston Abbott	Professor, SOM - Physiology & Biophysics	Studies genetic and environmental factors in metabolic disease and sudden cardiac death.	genetic resources, environmental, disease, human health, health
Amir Aghakouchak	Professor, Civil & Environmental Engineering; Center for Hydrometeorology & Remote Sensing (CHRS)	Studies topics in hydrology, climatology, statistics and remote sensing to address critical global water resource issues. Focuses on hydrologic extremes (flood/landslide/drought) has the potential for cross-over into other hazards, including those of a structural and geotechnical nature.	hydrologic cycle, climate dynamics, global, water resource, water, flood, environmental hazards, infrastructure, emergency preparedness, disaster, flooding, precipitation, water scarcity
Nancy Maria Aguilar-Roca	Associate Professor of Teaching, Ecology & Evolutionary Biology	Studies physiology education research, specifically evaluating strategies for teaching undergraduate courses in introductory biology, physiology and scientific writing and how to better incorporate diversity, equity and inclusion in STEM.	education, diversity, equity, inclusivity, quality education
June Ahn	Associate Professor, Education	Develops more equitable ways for students to learn STEM topics. Work sometimes touches on design (creating the technology and learning environments), understanding learners, and the broader societal contexts (e.g. social inequalities, education institutions) within which learning happens with technology.	equity, education, quality education, environment, society, inequality
Yousuf Al-Bulushi	Assistant Professor, Global & International Studies	Studies comparative anti-systemic movements, global capitalism, urban geography, Africa, the African diaspora, the Americas, the Middle East, intellectual history & geography, Marxism, political theory, and Black radical tradition.	global, capital, urban, geography, international, minorities, discrimination
Maura Allaire	Assistant Professor, Urban Planning and Public Policy	Evaluation of equity in California drinking water quality. Identifies disproportionate burdens of water quality violations borne by communities of color and low-income, and how these inequities have evolved over the past 20 years.	equity, potable water, water quality, disadvantaged communities, minorities, discrimination, inequity, water, communities
Elizabeth Gage Allen	Professor, English	Studies Chaucer, Gower, fifteenth-century poetry; exemplary literature, romance, chronicle, episodic form; intersections between ethics and politics, politics and religion; hospitality, sovereignty, and legal and constitutional history of England.	ethics, moral and spiritual education, law and regulation, culture, international, cultural heritage, cultural significance

Name	Title, Affiliation	Description	Keywords
Steven D Allison	Professor, Ecology and Evolutionary Biology	Studies the role of micro-organisms in feedbacks to climate change, particularly drought, in Southern California ecosystems. Also direct the Ridge to Reef Graduate Research Traineeship, which aims to train the next generation of environmental problem solvers with technical and professional skills.	drought, ecosystem, future generations, environmental, climate change
Aileen J Anderson	Professor, SOM - Physical Medicine & Rehabilitation	Studies the regeneration and regenerative capacity of the human body after injury.	regeneration, regenerative capacity, human health, health
Diran Apelian	Professor, Materials Science and Engineering; Institute for Design and Manufacturing Innovation	Studies the development of technologies to recover and recycle materials for a sustainable future.	recycle, reuse, sustainable, future generations, development
Shane Ardo	Associate Professor, Chemistry	Researches electrochemical and thermal desalination, atmospheric water harvesting, oceanic carbon capture, solar hydrogen and liquid fuels devices, protonic photovoltaics, electrolyzer and fuel cell membranes, and photonic heat pumps.	desalination, atmosphere, water harvesting, water, ocean, carbon, hydrogen, solar, fuel, clean fuels, photovoltaic, electric
Maxx Q Arguilla	Assistant Professor, Chemistry	Focuses on the chemistry and physics of novel solids from the bulk and down to the nanoscale. Aims to realize not only the fundamental understanding of emergent electronic, optical, and quantum phenomena in these solids but also to interface such nascent physical properties with next-generation energy harnessing, conversion, and storage technologies.	nanomaterials, electric, energy, alternative energy, clean energy
Plamen Borissov Atanassov	Professor, Chemical & Biomolecular Engineering	Electrocatalysis of energy-conversion processes as they relate to hydrogen technology (electrolyzers and fuel cells); carbon dioxide capture and valorization and nitrogen activation. Discovery and development of electrocatalysts for those processes and methods for their integration in electrochemical devices. Also studies the socio-economic and policy dimensions of energy and sustainability.	energy, electric, catalysis, hydrogen, hydrogen economy, fuel, clean fuels, carbon dioxide, development, society, social, economic, policy, sustainability
Scott Atwood	Assistant Professor, Developmental and Cell Biology	Studies human health and disease, particularly around cancer, and the regenerative capacity of stem cells.	human health, disease, regenerative capacity, regeneration, health
Luis Aviles	Professor, Spanish and Portuguese	Studies early modern Spanish literature and culture. Explores the relationship between war, violence, and ethics in several early modern authors, particularly in Cervantes's work, and studies concepts such as hospitality, liberality, generosity, forgiveness, friendship, and gift-giving, and how these concepts are articulated by sixteenth and seventeenth century authors.	culture, international, cultural diversity, cultural heritage, violence, ethics, moral and spiritual education, cultural significance
Drew Halford Bailey	Associate Professor, Education	Studies how students learn mathematics while considering their individual differences.	quality education, education, disability-sensitive, persons with disabilities, equity, equal opportunities

Name	Title, Affiliation	Description	Keywords
Rachel Barth Baker	Assistant Professor, Education	Studies educational policy, and the inequalities and economics of education.	education, inequality, economic, policy
Pierre F Baldi	Professor, Computer Science	Studies machine learning and AI; implications for chemoinformatics (green chemistry applications), drug discovery, and gene regulation.	green chemistry, human health, future generations, genetic resources, genetic diversity, disease
Nina Bandelj	Professor, Sociology; Academic Affairs	Studies economic sociology, culture, organizations, globalization, social networks, political economy, and Central and Eastern Europe.	society, culture, economic, globalization, international, global
Tirtha Banerjee	Assistant Professor, Civil and Environmental Engineering	Studies human-caused climate change and the effect on wildfire season in California. Special attention also paid to how this effects residents and their property and how policy should change. Also how wildfires behave, how to mitigate wildfire risk, and how the risk/danger of wildfires is distributed in space and time.	climate change, wildfires, policy, fire, drought, water scarcity
Tallie Z Baram	Professor, SOM - Pediatrics; Conte Center	Studies how adversity in childhood experiences affects the well-being and health of children and their development (and resilience) using precision medicine.	health, resilience, well-being, development, human health
Lee Bardwell	Professor, Developmental and Cell Biology	Studies how to translate the increasingly sophisticated systems-level understanding of regulatory processes into new ideas for treating human disease.	human health, disease, genetic diversity, genetic resources, health
Scott M Bartell	Professor, Public Health/ Administration; Program in Public Health	Studies methods in environmental health: exposure assessment, risk assessment, and environmental epidemiology.	environmental, environment, health, disease, human health
Christopher P J Barty	Professor, Physics and Astronomy	Studies high temperature plasma, the scientific foundation for fusion energy, which powers the stars such as the Sun and promises a clean and unlimited energy source for humanity.	nuclear power, energy, clean fuel, alternative energy, energy, solar, solar energy
Mary Victoria Basolo	Professor, Urban Planning & Public Policy	Studies housing and community development policy, urban governance, and environmental hazards in urban settings. Currently works on several projects including research on U.S. state housing policies, transit-oriented, affordable housing development, and urbanization challenges in La Paz, Mexico.	community, adequate housing, development, policy, urbanization, international, transit, public transportation, urban, governance
Srimayee Basu	Assistant Professor, English	Studies 18th- and 19th-century American topics, African American studies, anglophone, postcolonial, diasporic, and critical theory.	minorities, international, migration, discrimination, culture, cultural heritage
Christopher Wells Young Bauman	Associate Professor, Paul Merage School of Business	Studies how people make sense of and respond to their social environment, including the individuals, groups, and organizations with whom they interact. Focuses on how individuals determine issues of ethics and fairness. This work includes studies of individual decision making, group diversity, and corporate social responsibility.	social, environment, ethics, fair, equality, moral and spiritual education, diversity, responsive decision-making, responsibility

Name	Title, Affiliation	Description	Keywords
Maia Young Bauman	Associate Professor, Business	Studies the psychology of individual decision making in the workplace, particularly the way that decisions can be affected by emotions, culture and religion.	responsive decision-making, culture
Frank D Bean	Professor, Sociology; Director, Center for Research on Immigration, Population and Public Polic	Studies the implications of U.S. immigration policies, Mexican immigrant incorporation, the implications of immigration for changing race/ethnicity in the United States, the determinants and health consequences of immigrant naturalization, and the development of new estimates of unauthorized immigration and emigration.	migration, policy, law and regulation, discrimination, minorities, health, development
Miriam Bender	Associate Professor, Sue & Bill Gross School of Nursing	Studies the relationship between the organization of healthcare delivery, multi-professional practice dynamics, and patient care quality and safety outcomes to achieve disciplinary goals of health and wellness for people, families, and communities.	safety, wellness, human health, health, communities
Patrick Bergemann	Assistant Professor, Business	Studies how people report wrongdoing, which can be a way to deter and punish discrimination, harassment and victimization in the workplace. Focuses on the ways in which the institutional and social environment impacts whistleblowing and other types of reporting behavior.	discrimination, fair, social, environment
Hillary L Berk	Assistant Professor of Teaching, Criminology, Law & Society	Studies reproduction, social inequality, civil rights, law and emotions, feminist legal theory, and law and the changing family.	reproductive health, reproductive rights, social, inequality, rights, law and regulation, human rights, protect the rights, equal rights, gender-sensitive, gender disparities, gender equality
Victoria Bernal	Professor, Anthropology	Studies gender, migration and diaspora, war, globalization, transnationalism, civil society and activism, development, digital media, power, and inequality.	migration, conflict-related death, violence, peace, inequality, development, power, civil society, globalization, international, gender-sensitive
Veronica Berrocal	Associate Professor, Statistics	Studies environmental sciences, atmospheric and geophysical sciences; climate change; environmental health; environmental and social epidemiology; health inequities.	environment, atmospheric, climate change, health, social, disease, human health, inequity, disadvantaged communities
Anke Biendarra	Associate Professor, European Languages and Studies	Studies German and European literature and culture of the 20th/21st century, (e.g., pop literature), GDR/reunification; critical European culture studies, migration studies, transnationalism, memory studies, and gender studies.	international, culture, cultural heritage, gender-sensitive, migration
John T Billimek	Associate Professor, Family Medicine; Health Policy Research Institute	Studies medication adherence, diabetes, health disparities, social determinants of health, doctor-patient communication, life context and chronic disease management. Also studies racial and socioeconomic disparities in health outcomes exist among patients with chronic diseases.	disparities, health, inequality, disease, social, society, economic, human health

Name	Title, Affiliation	Description	Keywords
Rebecca W Black	Associate Professor, Informatics	Creates IT-based, research-driven interventions that can be leveraged to support children who are struggling academically, personally and socially.	education, equal opportunities, social, disparities, equality, society
Donald R Blake	Professor, Chemistry	Studies air composition and quality worldwide with particular attention to greenhouse gases and their mitigation. Also focuses on protecting and improving air quality in disadvantaged communities in California.	air quality, greenhouse gas, climate mitigation, mitigation, communities, disadvantaged communities, climate-related
Sharon Beth Block	Professor, History	Studies sexual harassment, gender, history of indigenous peoples, digital humanities, equity and inclusion in education.	discrimination, gender-sensitive, indigenous peoples, equity, inclusivity, education
Bruce Blumberg	Professor, Developmental and Cell Biology	Studies gene environment interactions - how environmental exposures affect both the exposed individuals and their offspring across multiple generations.	environmental, health, future generations, human health
Scott A Bollens	Professor, Urban Planning & Public Policy	Studies ethnicity and urban policy, international politically polarized cities, development strategies, and regional and intergovernmental approaches to planning. Just released book about living in places of war and conflict and how to find resilience.	discrimination, urban, public policy, policy, development, planning, resilience, peace, conflict-related death, violence
Anna Boncompagni	Assistant Professor, Philosophy	Studies hinge epistemology, social epistemology and epistemic injustice, in particular the nature of prejudice and stereotypes.	justice, injustice, social, discrimination
Stephen C Bondy	Professor, SOM - Department of Medicine	Studies the environmental and dietary agents that promote or retard brain aging.	environmental, environment, health, disease, human health
Geoffrey C Bowker	Professor, Informatics	Studies the shifting classification systems in medicine, distributed collaborative work practices in environmental science, data sharing practices and biodiversity informatics. Research aims to answer how scientists in the various sciences contributing to the subject of biodiversity communicate both with each other and with policymakers - and in particular how do the data structures and practices in use affect this communication. Also studies ways in which new forms of knowledge are being (or could be) generated by creative use of these digital resources. For example: how could intensive, long term monitoring of ecosystems feed into a new policy framework for sustainability?	collaborative, environmental, biodiversity, policy, ecosystems, sustainability, sustainable

Name	Title, Affiliation	Description	Keywords
Peter A Bowler	Professor of Teaching, Ecology & Evolutionary Biology	Studies open space conservation and management for wildlife; mitigation and habitat restoration as they relate to ameliorating biodiversity loss, particularly in coastal sage scrub and wetlands (ecological restoration); rare, threatened and endangered species, particularly in wetland habitats; invasive species; and environmental ethics.	conservation, ecology, restoration, biodiversity, habitat, wildlife, green space, alien species, native species, ethics, environmental, endangered species, loss of species, wetlands
Elaheh Bozorgzadeh	Professor, Computer Science	Studies energy sustainability in embedded systems through micro energy harvesting.	energy, sustainability, energy efficiency
Matthew E Bracken	Professor, Ecology & Evolutionary Biology	Studies the causes and consequences of changes in marine biodiversity, increasingly important as the climate changes.	climate change, marine resources, ecosystem, ocean, biodiversity
Kevin Duane Bradford	Associate Professor of Teaching, Business	Studies the understanding of significant issues within the marketing system and its relationship to society. This system can be viewed as consisting of three sets of actors – marketers, customers, and public policymakers	society, public policy, policy
Paulo Brando	Assistant Professor, Earth System Science	Studies rain forests and deforestation prevention. Studies ecological thresholds beyond which global changes cause abrupt, prolonged degradation of terrestrial ecosystems by stressing, disturbing, and killing forests. Quantifies ecological & climatological boundaries for tropical agricultural expansion and intensification. Finding solutions to feed the planet while maintaining the ecological integrity of terrestrial natural ecosystems.	deforestation, ecology, global, climate-related, agriculture, food, natural, ecosystem, food security
Adriana D Briscoe	Professor, Ecology & Evolutionary Biology	Writes and speaks about the importance of teachers in developing future scientists and the need for increased funding for Black, Indigenous people of color (BIPOC) teacher training in science, technology, engineering, and mathematics (STEM) in order to create a more just and diverse scientific workforce.	diversity, cultural diversity, minorities, inclusivity
David Brodbeck	Professor, Music	Studies Central European music and musical culture in the long nineteenth century and Anglo-American popular music of the past fifty years.	culture, cultural heritage, cultural significance, international
Liane Rundle Brouillette	Professor, Education	Uses using arts education to help students from low-income, high poverty vulnerable communities better understand the language of science.	poverty, vulnerable communities, education
Jacob Brouwer	Professor, Mechanical & Aerospace Engineering	Studies alternative energy: fuel cells, gas turbines, electrolyzers, and solar and wind power.	alternative energy, fuel, clean fuels, gas, solar, solar energy, energy, wind, wind energy
Susan K Brown	Professor, Sociology; Demographic and Social Analysis (DASA)	Studies how immigrant groups integrate into the United States across multiple dimensions, such as education, income, language, political involvement, and residential location with an emphasis on international migration, educational inequality, and urban sociology.	migration, migrants, education, urban, society, inequality, equal opportunities, disparities, equity, community, international

Name	Title, Affiliation	Description	Keywords
Tim Allen Bruckner	Associate Professor, Public Health/ Administration	Studies how population health, particularly pregnant women and persons with mental disorders, responds to ambient changes in the environment.	population, reproductive health, environment, health, public health, well-being, gender-sensitive
Jan K Brueckner	Professor, Economics	Study of effect of fuel prices on airline fuel efficiency, showing 2% reduction from imposition of optimal fuel tax.	reduction, fuel, efficiency, transportation, travel
Michael J Buchmeier	Professor, SOM - Department of Medicine; Division of Infectious Disease, Dept. of Medicine	Studies viruses and disease.	implications for global health risks, disease, human health, wellness, safety, and international
Long Bui	Associate Professor, Global & International Studies	Studies the fundamental connections of family/community, migration, and identity, and larger questions of race, militarism, and globalization to recognize the structural conditions and social forces that connect all people across the planet. Particularly interested in Digital Media & Popular Culture, Vietnam and Southeast Asian/American Studies, Human/Cultural Geography, Critical University Studies, Critical Refugee Studies, History and Memory, Race, and Gender & Sexuality.	community, migration, globalization, discrimination, earth, minorities, culture, geography, migration, gender-sensitive, displacement and migration
Nancy Burley	Professor, Ecology & Evolutionary Biology	Studies mate selection, survival, and diet of bird species.	food, living beings, nature, food security, wildlife
Jorge A Busciglio	Professor, Neurobiology and Behavior	Studies the molecular bases of neuronal dysfunction and death in Down's syndrome (DS) and Alzheimer's disease (AD).	implications for disability-sensitive, persons with disabilities, disease, human health, development, regenerative capacity, and wellness
Lee E Cabatingan	Assistant Professor, Criminology, Law & Society	Studies anthropology of law and legal institutions, and property and disaster recovery.	law and regulation, policy, disaster, emergency preparedness, resilience
Alejandro E Camacho	Professor, Law	Research in environmental law, natural resource law, land use regulation, regulatory design and government organization, with a particular focus on climate change. The UCI Law Center for Land, Environment, and Natural Resources promotes innovative research and catalyzes concrete policy action in environmental and land use law through interdisciplinary research, education, dialogue, and public programming.	environmental, natural resource, environmental policy, law and regulation, land use, design, climate change, education
Diane R Campbell	Professor, Ecology and Evolutionary Biology	Effects of climate change on demography and evolution in plant populations and the recovery of plant communities and pollination after wildfire.	climate change, population, community, wildfires, ecosystem, nature

Name	Title, Affiliation	Description	Keywords
Maritza Salazar Campo	Assistant Professor, Paul Merage School of Business	Studies how organizational structures and human resource practices can enhance multinational firm performance, the underlying psychological, social, and cognitive processes that promote collaboration in teams comprised of members from different cultural backgrounds, and how leadership, team composition, and training can enable science teams to integrate diverse knowledge, methods, and approaches to solve complex problems.	social, collaborative, cultural diversity, culture, diversity, international
Matthew Philip Canepa	Professor, Art History	Studies the co-constituency of the built, ritual, and natural environments in creating and sustaining cultural memory, power, and identity. Also studies how to communicate cultural heritage.	natural, cultural heritage, cultural significance, culture, power, sustainable, environment
Ann Marie G Carlton	Professor, Chemistry	Studies air quality and its relationship to climate change.	air quality, air pollution, air, climate change, global warming, atmosphere, atmospheric chemistry
Jeanett Castellanos	Associate Professor of Teaching, Chicano/Latino Studies	Studies Latina/o students' psychosociocultural college experiences, racial ethnic minority persistence patterns and experiences in higher education, cultural competence in higher education, racial ethnic minority communities coping, and well-being.	community, minorities, discrimination, social, culture, cultural diversity, education, community, well-being
Elizabeth E Cauffman	Professor, Psychological Science	Examination of family engagement among incarcerated persons and correctional staff. Transform prisons and safely reduce prison populations, improve culture and conditions, increase transparency and bolster prospects for successful reintegration.	safety, society, justice, culture, population, strengthen families, engage
Susan Turk Charles	Professor, Psychological Science	Studies how to maintain psychological health, physical health, and happiness by recognizing insights into molecular changes in the aging brain and how one might be able to reverse them. Explores why old age is often associated with high levels of emotional well-being, even with declines in body and mind.	preservation, regenerative capacity, regeneration, restoration, health, human health, life cycle, well-being, wellness
Leo Chavez	Professor, Anthropology	Explores the relationship between declining marine health and injuries among Dominican diver fishermen. Students have linked risk of injury to changing climates and shifting experiences of human and environmental health.	marine resources, health, international, climate-related, environment
Dongbao Chen	Professor, SOM - Obstetrics & Gynecology; Division of Maternal Fetal Medicine, Perinatal Research Lab	Studies reactive nitrogen and oxygen species, hormones, and women's health.	implications for development, reproductive health, reproductive rights, gender-sensitive, family planning, health, human health, and wellness

Name	Title, Affiliation	Description	Keywords
Liu Chen	Other teaching faculty, Physics and Astronomy	Studies high temperature plasma, the scientific foundation for fusion energy, which powers the stars such as the Sun and promises a clean and unlimited energy source for humanity.	nuclear power, energy, clean fuel, alternative energy, energy, solar, solar energy
Naomi C Chesler	Professor, Biomedical Engineering	Research interests include cardiovascular mechanobiology and biomechanics; engineering education; diversity, equity and inclusion in STEM.	education, inclusivity, equal access, diversity, gender-sensitive, equity
Chungmoo Choi	Associate Professor, East Asian Studies	Studies modern Korean culture and society, critical theory, gender, literature and film, religion, popular culture, and post-colonial theories.	culture, international, cultural heritage, society, gender-sensitive, cultural diversity
Pai H Chou	Other teaching faculty, Electrical Engineering & Computer Science	Studies embedded systems hardware and software, the Internet of Things, low-power design and energy harvesting, design tools and system modeling. Implications for power, energy, design, and energy efficiency.	power, efficiency, design, electric, energy, energy efficiency
Simon A Cole	Professor, Criminology, Law and Society; Newkirk Center for Science and Society	Directs the Newkirk Center for Science and Society, which focuses on the interaction between science and society and seeks to explore and think critically about the process by which scientific information is communicated to the public and policy-makers. It fosters the use of science to enhance the environment, education, health care, public infrastructure, and justice.	public policy, policy, environment, education, health, infrastructure, justice
Kwasi Malik Connor	Assistant Professor, Ecology & Evolutionary Biology	Studies how species adapt respond to environmental changes in order to enhance their chances of survival over time.	adapt, climate change, environmental
Bridget R Cooks Cumbo	Associate Professor, African American Studies	Studies African American art and culture, Black visual culture, museum criticism, film, and feminist theory and post-colonial theory.	gender-sensitive, gender equality, culture, minorities, cultural heritage
Dan M Cooper	Professor, SOM - Pediatrics	Studies the links between children, health, exercise, and disease. Also studies exercise-responses to health and disease in healthy children and in children with chronic disease and disability.	health, disease, wellness, development, human health, vulnerable, disability-sensitive, persons with disabilities, well-being
David A Copp	Assistant Professor of Teaching, Mechanical & Aerospace Engineering	Collaborates with Sandia National Laboratories that involves analyzing the necessary sizes of renewable energy resources and energy storage to transition the electric grid in New Mexico to 100% renewable generation.	renewable energy, energy, resources, clean energy, renewables
Miles Corwin	Professor, English	Part of the Literary Journalism program. Studies law enforcement, the criminal justice system, homicide, inner-city education, affirmative action, and crime fiction.	journalism, law and regulation, justice, conflict-related death, preventable death, education, quality education, urban, policy, equity, discrimination
Susan C Bibler Coutin	Professor; Associate Dean for Academic Programs, Criminology Law and Society	Studies law, culture, immigration, human rights, citizenship, political activism, and Central America.	human rights, basic rights, culture, diversity, international

Name	Title, Affiliation	Description	Keywords
Alicia M Cox	Assistant Professor, Comparative Literature	Studies American Indian narratives, decolonization and queer studies.	gender-sensitive, indigenous peoples, cultural heritage, cultural significance, culture, traditional knowledge
Elizabeth Derse Crook	Assistant Professor of Teaching, Earth System Science	Studies how ocean acidification, particularly as a result of climate change, may impact coral calcification, growth, and reef development in the 21st century and beyond. Currently also researching topics related to geoscience education, including how gifted programs may impact science self-efficacy and retention by traditionally underrepresented groups in the sciences.	ocean acidification, climate change, marine resources, ocean, equal access, equality, equity, education, inclusivity
Brian J Cummings	Professor, SOM - Physical Medicine & Rehabilitation	Studies neurotrauma and neuroregeneration; both at the cellular level, and from a broader, behavioral perspective.	implications for regenerative capacity, regeneration, human health, health, wellness, well-being, and behavioral change
Elliott P Currie	Professor, Criminology, Law & Society	Studies criminal justice policy in the U.S. and other countries, causes of violent crime, social context of delinquency and youth violence, etiology of drug abuse and the assessment of drug policy, race and criminal justice.	justice, policy, international, governance, effective governance, social, violence, hazardous substances, discrimination, minorities
Nancy A Da Silva	Professor, Chemical & Biomolecular Engineering	Studies biorenewables, including two interdisciplinary projects related to biofuels, and one on the synthesis of biorenewable chemicals.	renewables, renewable resources, renewable energy, fuel, alternative energy, green chemistry, energy
Donald Dabdub	Professor, Mechanical & Aerospace Engineering; Division of Undergraduate Education	Monitors urban air quality modeling, including reactions in and on aerosol particles and surfaces in the urban boundary layer. Creates and studies mathematical models of urban and global air pollution dynamics and the impact of energy generation on air quality.	urban, atmosphere, troposphere, global, air pollution, air, pollution, air quality, energy, climate dynamics, climate-related
Monica A Daley	Associate Professor, Ecology & Evolutionary Biology	Studies bipedal animals, like birds, to better understand why and how humans move. This has implications for human and animal health and well-being— including clinical gait assessment, treatment of movement disorders, rehabilitation strategies, and bio-inspired engineering of legged robots and mobility technology.	human health, well-being, health, wellness, persons with disabilities, disability-sensitive
Teresa Aileen Dalton	Associate Professor of Teaching, Criminology, Law & Society	Studies food justice, games of chance, and the death penalty.	food, justice, preventable death, food security, sufficient food

Name	Title, Affiliation	Description	Keywords
Eve Darian-Smith	Professor, Global & International Studies	Studies legal pluralism, crisis of democracy, authoritarianism, global and international law, human rights, race and ethnicity, (post)colonialism, legal and social theory, ethnographic methods, and the anthropology of law. Published essay on health impacts of Covid-19 and related disparities, and has a book about to be published on climate change. Also studies the politics of the environment, including environmental racism and the disproportionate impacts of climate change on communities of color and those from lower socioeconomic classes.	democracy, global, international, human rights, discrimination, law and regulation, governance, climate change, health, disparities, environment, disadvantaged communities, social, society, communities, minorities, equity, equality, environmental justice
Kristen Alexis Davis	Associate Professor, Civil & Environmental Engineering; Earth System Science	Studies how physical processes shape coastal waters – combining principles of fluid mechanics, oceanography, and ecology. Uses both field observations and numerical experiments to examine circulation in the coastal ocean, its natural variability, and influence on marine ecosystems and human-nature interactions.	ocean, marine resources, ecology, hydrologic cycle, water, ecosystem, interdependent
Rebecca A Davis	Associate Professor, English	Studies Old and Middle English literature, medieval Latin, Piers Plowman, medieval religious culture, women’s writing, medieval philosophy, animals in literature, medieval notions of freedom, vulnerability, and liberality, and new formalism.	international, culture, cultural heritage, gender-sensitive, vulnerable, fundamental freedoms
Steven J Davis	Professor, Earth System Science	Researching how to satisfy global demand for energy, food, and goods without adding CO2 to the atmosphere. Researched power plant decommission rates necessary to meet global climate targets (e.g., 1.5, 2.0, and 2.5 degrees C warming trajectories) and the impacts of climate change impacts on agriculture production and subsequent agricultural migration to mitigate climate impacts on cereal crop production. Active member of AirUCI, which addresses the urgent challenges humanity faces in air and water quality, human health, climate change, as well as green technology through the integration of research, education, and outreach.	global, energy, food, carbon neutrality, carbon, atmosphere, global warming, climate change, agriculture, migration, climate-related, farm, air quality, water quality, human health, green, education, pollution
Russell L Detwiler	Associate Professor, Civil & Environmental Engineering	Studies fluid flow processes in porous and fractured media, which is critical to a broad range of current challenges including the following: remediation of groundwater contaminants; subsurface CO2 sequestration; geothermal energy production; and nuclear waste isolation.	groundwater, contamination, pollution, carbon dioxide, energy, clean energy, waste, nuclear power, sequestration
Zachary Dale Dietz	Assistant Professor of Teaching, Drama	Studies synthesis technologies as well as Chautauqua and minority performance practices in the United States.	minorities, culture, cultural heritage, cultural significance

Name	Title, Affiliation	Description	Keywords
Michelle Digman	Associate Professor, Biomedical Engineering; Laboratory for Fluorescence Dynamics	Studies DNA damage response and repair in humans.	genetic resources, regeneration, regenerative capacity, human health, health, wellness
Joseph F Dimento	Professor, Law	Studies international law, urban and regional planning, domestic and international environmental law, administrative law and regulation, business and government, and conflict resolution.	law and regulation, urban, planning, international, environmental
Peter H Ditto	Professor, Psychological Science	Studies the role of motivation, emotion and intuition in social, political, moral, medical, and legal judgment.	social, moral and spiritual education, law and regulation, health, human health
Mine Dogucu	Assistant Professor of Teaching, Statistics	Develops educational materials that are freely accessible in the public domain and also contributes to open source programming language R through teaching-oriented packages.	public domain, quality education, education, equal access
Franklin Dollar	Associate Professor, Physics and Astronomy	Studies high temperature plasma, the scientific foundation for fusion energy, which powers the stars such as the Sun and promises a clean and unlimited energy source for humanity.	nuclear power, energy, clean fuel, alternative energy, energy, solar, solar energy
Brianne G Donaldson	Assistant Professor, Philosophy; Religious Studies	Studies non-anthropocentric ontologies—whether religious, secular, or scientific—to develop social ethics that extend beyond a narrow view of human, personhood, and species. Current projects include: (1) Examining principles for bioethics in the ancient Jain tradition, through textual analysis of the early canon, medieval literature, and contemporary sources, (2) Researching Jain identity and ethics in diaspora, through the national temple education (pathshala) program as well as through the annual ritual of murti decorating known as angi (3) The changing meaning of industrial meat production (and clean meat alternatives) at the level of materiality, geography, ethics, ecology, and concept.	moral and spiritual education, cultural heritage, cultural significance, diversity, cultural diversity, farm, food, food security, ethics, geography, ecology, consumption
Vy M Dong	Professor, Chemistry	Studies new reaction methods, enantioselective catalysis, and natural product synthesis. Building these new molecular architectures can facilitate the discovery of life-saving therapeutics, invention of novel materials, and search for alternative energies.	catalysis, alternative energy, energy, health, human health, preventable death
Peter J Donovan	Professor, Biological Chemistry	Studies how stem cells can be isolated and grown in the lab and how we can use them to develop better treatments for human disease.	disease, regeneration, regenerative capacity, human health

Name	Title, Affiliation	Description	Keywords
James Paul Dourish	Professor, Informatics	Studies trans-national and trans-cultural contexts of information technology use, often informed by theoretical frameworks drawn from cultural studies and post-colonial studies. These have included work with indigenous Australians using Internet technologies to teach about language and cultural practice from their traditional homelands, Chinese game-players and their use of games as ways of strategically situating themselves in the changing economic and social contexts of Chinese life, alternative configurations of small-scale and large-scale mobility in between Thailand and the United States, and the movement of design methods and design processes around the world as part of an shifting picture of technology development and technology use (with a particular emphasis on IT design in India).	culture, indigenous peoples, international, cultural heritage, cultural diversity, cultural significance, economic, social, design, global
Ellen Druffel	Professor, Earth System Science	Studies changes in past ocean circulation and ventilation, as well as coral to reconstruct seasonal-to-annual records of isotopes that lend themselves well to reconstruction of past temperature, salinity and upwelling strength in surface waters. This helps to shed light on current trends as a result of climate change.	ocean, ocean temperature, climate change, water, ocean acidification, marine resources
Greg John Duncan	Professor, Education	Studies how to reduce child poverty and generate transformative and sustained impact on science, policy and, ultimately, the life chances of young people.	development, poverty, sustainable, policy, future generations, health, the poor
Jacquelynne Sue Eccles	Professor, Education; Director for Graduate Studies	Studies academic motivation and achievement, school and family influences on adolescent development, and gender and ethnicity in STEM fields.	gender disparities, gender inequality, gender-sensitive, discrimination, community, education, development,
Aimee Lara Edinger	Professor, Developmental and Cell Biology	Studies the endogenous molecules that have been optimized by evolution to balance growth suppression with toxicity to design compounds that are safe for normal cells despite their multi-faceted, anti-cancer actions.	toxic, safety, human health, disease, design
Rufus D Edwards	Professor, Public Health/ Administration; Genetic Epidemiology Research Institute (GERI)	Studies human exposures to air pollution emissions and subsequent health effects. These include populations in the industrialized world exposed to combustion byproducts from transportation, wildfires and tobacco smoke, and populations in less industrialized nations exposed to emissions from household solid fuel use for cooking and space heating.	air pollution, air, combustion, air quality, wildfires, least developed countries, developing nations, fuel, heat, food, transportation, pollution, health, human health

Name	Title, Affiliation	Description	Keywords
Benis Egoh	Assistant Professor, Earth System Science	Studies the mapping and valuing of ecosystem services to understanding the economic consequences of land degradation on human well-being. Also studies the links between ecosystem services and underpinning biodiversity and the implementation of current policies related to biodiversity and ecosystem services and options that exist to safeguard or restore priority areas important for both.	ecosystem, geography, economic, land use, well-being, policy, environmental policy, biodiversity, protect and restore, restoration, protected areas
Ahmed Eltawil	Professor, Electrical Engineering & Computer Science	Develops more efficient high data rate broadband wireless systems for continuously expanding networking applications and ultra-low power applications, which are finding numerous applications such as remote wireless sensing, wearable electronics, sensors, etc.	efficiency, power, energy, energy efficiency
James Jordan Emerson	Associate Professor, Ecology & Evolutionary Biology	Studies how species adapt to extreme environmental changes, like temperature increases.	adapt, environmental, global warming, climate change, living beings
Laura Elise Enriquez	Associate Professor, Chicano/Latino Studies, Sociology	Studies the educational, political, and social experiences of undocumented young adults and members of mixed-status families and examines how immigration policies disrupt the educational experiences and wellbeing of undocumented college students and students from mixed-status families.	education, law and regulation, governance, social, migration, migrants, minorities, well-being
William J Evans	Professor, Chemistry	Develops the science around rare earth metals and other elements to solve critical problems in the world, particularly to pursue or improve alternative energy options like nuclear power and the solar conversion of water to hydrogen.	alternative energy, solar, hydrogen, energy, nuclear power, water, earth, hydrogen economy
Kai Evers	Associate Professor, European Languages and Studies	Studies modernist literature, German film, European studies, catastrophic imagination and representations of war, violence, and risk. Focuses on the central importance of reflections of violence in modernism. Develops models of imagining emerging risks to society in literary and non-literary discourses. Offers a genealogy of risk society that reaches deeper into the past than current theories and hopes to identify central models of a representation and rethinking of risk in German culture that envisions the destructive potentials of successful modernization amidst the apparent normalcy of daily life.	culture, international, weapons of mass destruction, society, violence, violent conflict, conflict-related death, disaster
Celia Louise Braun Faiola	Assistant Professor, Ecology and Evolutionary Biology	Studies climate change effects on plant health and plant-atmosphere interactions. urban greening effects on urban air pollution.	climate change, health, interdependent, climate-related, carbon cycle, nature
Christopher Tzechung Fan	Assistant Professor, English	Studies Asian/American cultural production, 20/21 American and Anglophone literature, global Asias, race, and science/speculative fiction.	international, minorities, culture, global, cultural heritage

Name	Title, Affiliation	Description	Keywords
George Andrew Farkas	Professor, Education	Studies the education achievement gap for low income and ethnic minority students.	education, equal opportunities, equity, equality, minorities, the poor, discrimination, poverty
David L Feldman	Professor, Urban Planning and Public Policy	Studies adaptive management, water resources policy, water-nexus, and water supply innovations. Formed an Industry University Research Center to investigate climate change impacts on water in the Far West. Collaborating with nine regional water agencies in local counties to investigate the sources of PFAS contaminants in sewersheds. Also examines privacy, security, and complexity of smart and connected-water systems in cities and their vulnerabilities to hacking and other issues. Also examines the public acceptability and political issues associated with water supply innovations: desalination, wastewater reuse, and rainwater harvesting.	water harvesting, water, water resources, adapt, water supply, pollution, contamination, water quality, vulnerability, safety, untreated wastewater, reuse, waste treatment, precipitation, desalination
Julie Elizabeth Ferguson	Associate Professor of Teaching, Earth System Science	Studies paleoclimate by analyzing the stable isotope and elemental composition of biogenic calcium carbonate (e.g., coral), to reconstruct sea surface temperatures, salinities, upwelling and ocean currents for the past so that we can better understand the future. Also researches geoscience education and how large general education geoscience classes can play in changing student attitudes to societally relevant geoscience topics such as climate change and sustainable fisheries.	marine resources, climate change, ocean, education, quality education, ocean temperature, sustainable, food, fish stocks, fisheries, farm, small-scale fisheries, behavioral change
Sarah C Finkeldei	Assistant Professor, Chemistry	Studies modern advanced nuclear reactors, which allow a better utilization of nuclear fuel. This generates less waste, and enhances public acceptance of nuclear energy as an attractive energy source with a negligible greenhouse gas footprint. Research is divided into the following core areas: synthesis of nuclear fuels, characterization and understanding of fuel properties and performance, and development of nuclear waste management technologies including recycling technologies of used nuclear fuel.	nuclear power, fuel, clean fuel, waste generation, waste, alternative energy, waste management
Barbara J Finlayson-Pitts	Other teaching faculty, Chemistry	Mechanisms of formation and growth of particles in air that impact health, visibility and climate. Studies atmospheric fates of neonicotinoid pesticides.	pollution, air pollution, air quality, atmospheric chemistry, climate-related, health, air, atmosphere, human health
Jennifer J Fisher	Professor, Dance	Studies critical dance studies, ballet as culture, dance ethnography, ethnography, and the relationship of dance to gender, race, and identity.	culture, cultural heritage, gender-sensitive, social, society, well-being

Name	Title, Affiliation	Description	Keywords
Kim Fortun	Professor, Anthropology	Studies environmental risk and disaster and uses experimental ethnographic methods to understand how people in different geographic regions and organizations deal with environmental problems, health risks and major disasters. Focuses on industrial disasters – chemical plant explosions and massive breakdown of industrial systems.	health, global health risks, environmental, disaster, emergency preparedness, environmental hazards, society, global, international, geography
Michael Fortun	Associate Professor, Anthropology	Interested in how air pollution affects people's health and bodies, and how scientists, engineers, practitioners and community people all are trying to find new ways to work together to understand air pollution and its mass effects on humans.	air pollution, health, human health, community, air quality, clean air, air, troposphere, atmosphere
Efi Foufoula	Professor, Civil and Environmental Engineering; School of Engineering, Office of the Dean	Climate change, rainfall, precipitation, preservation and resilience of coastal deltas.	climate change, precipitation, preservation, resilience, marine resources, water
David John Frank	Professor, Sociology	Studies the cultural and organizational underpinnings of world society, with a focus on the changing definition of the human-nature relationship, as expressed in the rise of the global environmental movement; the changing definition of sex, as expressed in shifting criminal regulations and human rights; and the changing definition of knowledge, as expressed in the evolution and expansion of the university curriculum.	human rights, justice, education, gender-sensitive, culture, respect for nature, harmony with nature, interdependent, society, global, international
Filipp Ulrich Furche	Professor, Chemistry	Develops less costly ways to examine the structures of molecules.	efficiency, atmospheric chemistry, green chemistry, resources
Christine M Gall	Professor, SOM - Anatomy & Neurobiology	Studies cognitive impairment and repair, which has implications for human health persons with disabilities.	human health, regenerative capacity, regeneration, disability-sensitive, persons with disabilities
Joshua Nathaniel Garcia	Assistant Professor, Informatics	Formulates optimization and game theory models to study the environmental and social implications of business operations, and propose policies/mechanisms that lead to profitable outcomes that also help preserve the natural environment and improve social welfare. Designs and implements of environmental policies, and new business models to support/regulate the informal sector in developing countries.	environmental, social, policy, natural, environmental policy, least developed countries, developing countries, law and regulation
Ajay Garde	Associate Professor, Urban Planning & Public Policy	Studies urban planning and urban design with a particular focus on environmental, physical, and social problems related to the built environment by examining innovations in planning and design, their impact on urban form, and the implications for public policy. Addresses a fundamental question: how might the planning and design of built environment contribute to making our cities more sustainable, equitable, and livable?	urban, planning, design, environmental, social, public policy, sustainable, equity, quality of life

Name	Title, Affiliation	Description	Keywords
Michelle R Garfinkel	Professor, Economics	Studies the political economy and macroeconomics with special focus on examining global peace and conflict and human behavior.	economic, global, peace, behavioral change, conflict-related death, violent conflict, violence, governance
John Jay Gargus	Professor Emeritus, SOM - Physiology & Biophysics	Directs the UCI CART drug discovery platform for autism with the goal to improve the lives of individuals with autism and develop a cure through discovery, implementation, education and advocacy of novel care and treatment.	disability-sensitive, persons with disabilities, health, human health, well-being, education
Jessica Debats Garrison	Assistant Professor of Teaching, Urban Planning and Public Policy	Focuses on environmental justice, climate adaptation, geographic information systems, and spatial analysis.	environmental justice, climate-related, adapt, geographic
Brandon Stuart Gaut	Professor, Ecology & Evolutionary Biology	Studies the balance of forces that contribute to evolutionary change, such as evolutionary genetics and comparative genomics of plant systems, including the genetics of domestication.	origins of life, genetic diversity, genetic resources, living beings
Kelvin W Gee	Professor, Pharmaceutical Sciences	Studies how to synthesize ligands and evaluate their potential as novel therapeutic agents useful in the treatment of human diseases.	human health, disease, health, safety, wellness
Donovan P German	Associate Professor, Ecology & Evolutionary Biology	Studies how organisms are specialized to use specific resources and the consequences of specialization to ecosystem fluxes. By understanding the resource acquisition strategies of a range of organisms within a given ecosystem, we can better understand fluxes within that system, which is especially important when facing climate change. Knowing this information can lead to making more informed management and policy decisions.	ecosystem, adapt, resources, climate change, policy, environmental policy
Margaret P Gilbert	Professor, Philosophy	Studies topics in social, political, and moral philosophy, epistemology, action theory, rights theory, and philosophy of law.	social, moral and spiritual education, rights, law and regulation
Daniel L Gillen	Professor, Statistics	Develops novel statistical methods to estimate the association between environmental exposures and the correlated risk of human health outcomes across space and time.	environmental, health, human health, public health, environmental hazards
Frances Leslie Gonzalez	Other teaching faculty, Pharmaceutical Sciences	Studies addiction, drugs of abuse, and brain development.	development, human health, well-being, wellness, hazardous substances
Sara B Goodman	Associate Professor, Political Science	Studies citizenship policy, immigration, immigrant integration, ethnic diversity in democracies, and diaspora.	policy, migration, democracy, diversity, cultural diversity, minorities, international
Michele B Goodwin	Professor, Law	Studies freedom of speech; religious exercise; equal protection; due process; race and sex discrimination; reproductive rights; slavery; and LGBTQ equality.	freedom of speech, moral and spiritual education, discrimination, minorities, gender-sensitive, gender disparities, slavery, reproductive rights, forced labor, decent work, equality

Name	Title, Affiliation	Description	Keywords
Michael L Goulden	Professor, Earth System Science	Studies how terrestrial ecosystems work, with an emphasis on what controls the exchanges of gases and energy between land surfaces and the atmosphere. This research is relevant to several environmental problems, including understanding changes in climate and global biogeochemistry.	gas, atmosphere, environment, climate-related, global, earth system, interdependent, climate dynamics
Kyle Grady	Assistant Professor, English	Studies early modern literature and culture, early modern race studies, African American literature and culture, and critical race theory.	culture, minorities, cultural heritage, diversity, discrimination, law and regulation
Claudia Isabel Green	Associate Professor, Earth System Science	Studies the impacts of climate change, natural disturbances (i.e. fire), and changes in land use and management (i.e. urbanization) on the cycling of carbon and nitrogen in terrestrial ecosystems. Aims to predict how human activities will impact terrestrial ecosystems in the future and how changing terrestrial ecosystems will feed back to the climate system.	climate change, natural, fires, land use, urbanization, carbon, carbon cycle, ecosystem, interdependent
Sheldon Greenfield	Professor, DOM General Internal Medicine, Health Policy Research Institute	Studies healthcare disparities and co-directs the Health Policy Research Institute, which focuses on reducing disparities in health and healthcare for racial and ethnic minorities as well as for vulnerable populations.	vulnerable, vulnerable community, population, disparities, equity, equality, health, minorities, discrimination, human health, public health, policy
Bernard N Grofman	Professor, Political Science; Center for the Study of Democracy	Studies public choice, mathematical models of collective decision making, formal democratic theory, politics of small groups, representation, and voting rights.	public policy, voting rights, inclusivity, responsive decision-making, rights
Zhibin Guan	Professor, Chemistry	Studies the design, synthesis, and study of dynamic soft materials and functional biomaterials, which allows living things to be active, adaptive, and self-healing. Special focus on making synthetic polymer materials more sustainable, recyclable, and environmentally friendly.	design, adapt, regeneration, regenerative capacity, sustainable, recycle, environment
Alex B Guenther	Professor, Earth System Science	Quantify and understand biosphere-atmosphere interactions to improve models used to assess and mitigate the impact of human activities on climate and air quality.	biosphere, atmosphere, interdependent, mitigate, climate-related, air quality, air, air pollution, pollution, climate mitigation, climate action
Kaaryn Solveig Gustafson	Professor, Law	Studies welfare and economic policy; criminal law and procedure; interdisciplinary research on race, ethnicity, and gender and socioeconomic inequality.	economic, social systems, law and regulation, minorities, discrimination, inequality, social, society, gender disparities, gender inequality, gender-sensitive
Bambi Lynn Haggins	Associate Professor, Film & Media Studies; Ph.D. Program in Visual Studies	Studies race, class, gender and sexuality in American comedy across media.	minorities, gender-sensitive, gender equality, culture, cultural diversity, social, discrimination

Name	Title, Affiliation	Description	Keywords
Sora Y Han	Associate Professor, Criminology, Law & Society	Studies critical race theory to understand American law's decisions on race and civil rights. Recently authored a casebook, Comparative Equality and Anti-Discrimination Law, Third Edition (Edward Elgar Publishing 2020). Currently studying contract law and afro-pessimist theory to think beyond the property metaphor of slavery.	discrimination, migration, displacement and migration, slavery, forced labor, minorities, law and regulation
Paul Magnus Hanselman	Assistant Professor, Sociology	Studies how features of education contribute to social inequality and how local contexts shape students' experiences and the implications for educational policy and interventions.	education, social, equal opportunities, inequality, policy, quality education
Matthew C Harding	Professor, Economics	Studies Big Data and develops techniques in machine learning and econometrics to answer questions related to individual consumption and investment decisions in areas such as health, energy, and consumer finance.	economic, consumption, health, energy, development
Sandra L Harvey	Assistant Professor, African American Studies	Studies the production of race and gender through surveillance technologies originating in colonialism and chattel slavery.	discrimination, gender-sensitive, minorities, forced labor, slavery, human rights
Erika Hayasaki	Associate Professor, English	Studies science, technology, race, social inequality, and the human condition. Part of the Literary Journalism program.	inequality, social, discrimination, society, journalism
Wayne B Hayes	Associate Professor, Computer Science	Studies computer science and how to use computers to solve scientific problems more efficiently, quickly, and less expensively.	efficiency, resources, resource-use efficiency, resource efficiency
Jutta Heckhausen	Professor, Psychological Science	Studies life-span developmental psychology, motivational psychology, control behavior, psychological influences on health, and developmental regulation across the life span. Also studies the role of individual differences in implicit motives (achievement, power, affiliation) for the regulation of goal engagement and disengagement in lifespan development.	life cycle, development, health, power, engage, human health, behavioral change
William W Heidbrink	Professor, Physics and Astronomy	Studies high temperature plasma, the scientific foundation for fusion energy, which powers the stars such as the Sun and promises a clean and unlimited energy source for humanity.	nuclear power, energy, clean fuel, alternative energy, energy, solar, solar energy
Jeffrey S Helmreich	Associate Professor, Philosophy	Studies ethics and legal philosophy, including moral psychology, speech acts, moral and legal remedy, and the philosophy of torts and evidence.	ethics, moral and spiritual education, law and regulation
Aleah H Hernandez	Assistant Professor of Teaching, Classics	Studies Greek tragedy, classical reception, gender, and narratology.	gender-sensitive, cultural heritage, international, society
Ivette Hernandez-Torres	Associate Professor, Spanish and Portuguese	Studies Latin American colonial studies and Hispanic Caribbean literature.	culture, international, cultural diversity, cultural heritage, cultural significance

Name	Title, Affiliation	Description	Keywords
Klemens J Hertel	Professor, SOM - Microbiology & Molecular Genetics	Studies how to better understand and preserve the human body -- alternative pre-mRNA splicing, regulation of gene expression, and the development of cancer.	genetic resources, disease, human health, health, preservation
Alan F Heyduk	Professor, Chemistry	Develops new catalysts for cleaner energy conversion for water splitting, an alternative to traditional fossil fuel energy resources.	catalysis, clean fuel, energy, alternative energy, fossil fuel, energy efficiency, resources, water
Michael Ryan Hicks	Assistant Professor, SOM - Physiology & Biophysics	Studies stem cells and their broad applicability to multiple muscle wasting diseases and regenerative therapies.	human health, health, regenerative capacity, regeneration, disease
Andrew Robert Highsmith	Associate Professor, History	Studies urban/metropolitan areas, public health, race and class, and public policy.	urban, public health, health, discrimination, minorities, public policy
Ann M Hironaka	Professor, Sociology	Studies environmental sociology, politics, and war from a global perspective. Researches the historical emergence of the global environmental regime and its impact on national policy and environmental practices.	environmental, society, violence, peace, global, policy, environmental policy
Allon Israel Hochbaum	Associate Professor, Materials Science and Engineering; Chemistry; Molecular Biology and Biochemistry	Studies biofilms, which are useful for bioprocessing, environmental remediation, and renewable energy technologies. The ability to control their behavior, therefore, is critical for a range of applications, such as treating or preventing medical infections, removing toxins from groundwater, and producing biofuels from renewable energy sources.	environmental, renewable energy, energy, disease, groundwater, water quality, toxic, fuel, renewables
Suellen Hopfer	Assistant Professor, Public Health/ Administration	Conducts health communication research to advance communication theory, address health disparities, design effective public health communication interventions, and implement efficient prevention interventions to bring improved health for communities and individuals. Research explores how messaging at the individual, community, or policy level impacts recommended health behavior change, attitudes, and/or policy support related to vaccination and climate change.	health, behavioral change, disparities, communities, policy, public policy, climate change
John D Houston	Associate Professor, Urban Planning & Public Policy	Investigates how urban development patterns intersect with neighborhood livability and environmental quality: (A) impacts of transit-oriented development, (B) human activity patterns and environmental hazards, (C) urban inequality and access to opportunity, and (D) geographic analytical methods.	urban, development, transit, transportation, environmental hazards, environment, inequality, equal access, equal opportunities, geographic

Name	Title, Affiliation	Description	Keywords
Kuo-Lin Hsu	Professor, Civil & Environmental Engineering; Center for Hydrometeorology & Remote Sensing (CHRS)	Studies how to better model and understand precipitation as rainfall has been (and will continue) to change with climate change. Studies water and monitors water resources. Works to improve hydrologic prediction and water resources management using artificial intelligence and machine learning approaches and applies satellite data for hydrologic applications (floods, droughts, and water resources monitoring).	water, hydrologic cycle, precipitation, climate change, water scarcity, water resources, flood, flooding, drought
Yilin Hu	Associate Professor, Molecular Biology & Biochemistry	Studies the evolutionary link between nitrogen fixation, methanogenesis and photosynthesis from a biochemical perspective, as well as develops strategies for environmental and industrial applications of these processes.	methane, gas, greenhouse gas, carbon cycle, environmental
Ying Hu	Professor, East Asian Studies	Studies the literature and culture of late 19th to early 20th century China, a time of great ideological and cultural fluidity that bred a generation of independent thinkers. Studies how women at the time understood and intervened in such changes of political system, cultural values and gender norms.	culture, international, cultural heritage, gender-sensitive, society, governance
Martin W Huang	Professor, East Asian Studies	Studies traditional Chinese narrative, narrative theory, and the cultural history of late imperial China.	international, culture, cultural heritage
Bradley S Hughes	Associate Professor of Teaching, Ecology & Evolutionary Biology	Develops methods of educational innovations to rescue a fiscally challenged system with a more sustainable, engaging and affordable learning paradigm and designs meaningful education for students from all backgrounds.	education, sustainable, engage, design, equity, equality, diversity, equal access, equal opportunities, quality education
Elliot Hui	Associate Professor, Biomedical Engineering	Studies how to leverage microtechnology to understand and improve human health.	human health, health, wellness, bodily health
Travis E Huxman	Professor, Ecology & Evolutionary Biology	Studies the ecology and evolution of plants by understanding the impacts of climate change on various natural processes or mechanisms supporting the conservation and restoration of important ecosystems.	ecology, climate change, conservation, restoration, ecosystem
David Bruce Iglar	Professor, History	Studies the environmental and cultural history of the Pacific by collecting and preserving oral and written stories.	environmental, culture, cultural diversity, cultural heritage, preservation, cultural significance, international
Adria Lyn Imada	Professor, History	Studies race, indigenous peoples, sexuality, health, disability, and gender.	indigenous peoples, diversity, cultural diversity, cultural heritage, discrimination, persons with disabilities, disability-sensitive, gender-sensitive, gender equality, health, gender disparities, minorities, traditional knowledge

Name	Title, Affiliation	Description	Keywords
Faryar Jabbari	Professor, Mechanical & Aerospace Engineering; The Henry Samueli School of Engineering	Studies alternative energy options, like fuel cells, as well as natural disaster prevention through safer earthquake infrastructure.	clean fuels, alternative energy, energy, disaster, emergency management, environmental hazards, safety, resilience, infrastructure, fuel
Jesse Colin Jackson	Associate Professor, Arts-Studio Art	Sustainable art-making materials (e.g., reclaimed plastic).	reuse, recycle, plastic waste, sustainable, green materials
Virginia W Jackson	Associate Professor, English	Studies lyric theory, the history of Black poetics, nineteenth-, twentieth-, and twenty-first-century American poetry, nineteenth-century American literature and culture, the history of literary criticism, and contemporary American poetics.	cultural heritage, minorities, diversity, cultural diversity, culture
Anthony A James	Professor, SOM - Microbiology & Molecular Genetics; Molecular Biology & Biochemistry	Studies molecular biology of insect vectors of disease, genetics of vector competence, malaria, dengue fever.	disease, genetic resources, malaria, public health, global health risks, health, human health, international
Larry D Jamner	Professor, Psychological Science	Studies health psychology, psychophysiology, and substance use, including the situational/contextual and trait factors on smoking as well the contribution of individual differences such as personality factors, gender, and ethnicity in nicotine-dependence susceptibility to patterns of cigarette smoking across the life span.	minorities, life cycle, hazardous substances, human health, health, gender-sensitive
Cholsoo Jang	Assistant Professor, Biological Chemistry	Studies how dietary nutrients are metabolized by host organs and gut microbiota and contribute to health and disease, with a focus on disease-associated nutrients such as branched-chain amino acids, fructose, and alcohol, to eventually expand the understanding of the fundamental link between diets, health and disease.	malnutrition, disease, food, undernourishment, human health, bodily health
Elizabeth R Jarvo	Professor, Chemistry	Studies and develops sustainable, Earth-abundant catalysts for fine chemical synthesis.	sustainable, earth, catalysis, material sufficiency, development, green chemistry
R. Jayakrishnan	Professor, Civil & Environmental Engineering; Institute of Transportation Studies	Studies high traffic transportation areas, such as in urban environments.	road traffic, transportation, urban, environment, urban sprawl, public transportation, transit
Jade Vanessa Marcus Jenkins	Assistant Professor, Education	Studies public policy and early childhood development to learn how to evaluate and develop policies that provide support for families with young children and reduce poverty in the long-term.	public policy, development, policy, strengthen families, poverty, family planning
Chenyang Jiang	Professor, Civil and Environmental Engineering	Studies water quality, environmental management and energy efficient water reuse technology.	water quality, water, water pollution, pollution, environment, reuse, energy efficiency, energy
Luohua Jiang	Associate Professor, Epidemiology	Studies chronic disease epidemiology and prevention and health disparities.	disease, human health, disparities, health

Name	Title, Affiliation	Description	Keywords
Wenlong Jin	Professor, Civil & Environmental Engineering	Studies transportation: why people select specific routes, the dynamics of traffic, freeway improvement, and traveler information in transportation networks. Developing better or more efficient transportation options, which would decrease greenhouse gas emissions, starts with this understanding of why people make certain transportation decisions.	transportation, road traffic, travel, greenhouse gas, global warming, climate change, air quality, efficiency, transit
Adriana Michele Campos Johnson	Associate Professor, Comparative Literature	Studies Latin American literature and film, cultural studies, and subaltern studies.	the gap between rich and poor, social, economic, society, culture, international, cultural heritage
Ariyan April Johnson	Assistant Professor, Dance	Studies how to create strong female perspectives within the African Diaspora culture specializing in Hip Hop, Jazz, Afro-Fusion Modern, and African dance forms. Also working on a book on Black Dances in the church.	culture, cultural heritage, gender-sensitive, social, society, migration, minorities, cultural significance
Kathleen R Johnson	Associate Professor, Earth System Science	Studies cave deposits to reconstruct and better understand the Earth's climate in the past, which will lead to a better understanding of our Earth's current natural interactions and climate.	climate-related, climate change, climate dynamics, earth, natural
Victoria Elaine Johnson	Professor, Film & Media Studies	Studies the critical history of U.S. Television and Film, cultural studies and geography, Critical Race Theory, media policy and law, and communication technology and rural access.	law and regulation, equal access, rural infrastructure, culture, geography, civil society, rights, discrimination, human rights, equal rights
Pavan Kadandale	Lecturer SOE, Molecular Bio & Biochemistry	Studies biology education, student assessments, and students' critical thinking.	quality education, inclusive, education, diversity
Kamyar Kalantar-Zadeh	Professor, SOM - Department of Medicine; Division of Nephrology	Studies renal nutrition and dietary management, kidney disease outcome and epidemiology, cardiovascular risks in chronic kidney disease, malnutrition and wasting in chronic diseases, diabetes and obesity, disparities and quality of life in chronic kidney disease, patient centeredness, and gut microbiome in chronic kidney disease.	malnutrition, undernourishment, waste, wellness, well-being, disease, human health, food
Hosun Kang	Associate Professor, Education	Studies the design and impact of innovations that support early career teachers' learning of equitable science teaching. Also investigates youth's engagement and identities in science with a particular focus on girls from non-dominant linguistic, cultural, and socioeconomic backgrounds.	equity, education, quality education, culture, society, economic, gender disparities, inclusivity, gender equality, gender-sensitive, diversity, cultural diversity
Sherrie H Kaplan	Professor, DOM General Internal Medicine, Health Policy Research Institute	Co-directs the Health Policy Research Institute, which focuses on reducing disparities in health and healthcare for racial and ethnic minorities as well as for vulnerable populations.	health, human health, policy, public policy, disparities, minorities, vulnerable community, population, discrimination, equity

Name	Title, Affiliation	Description	Keywords
Andromache Karanika	Associate Professor, Classics	Studies early Greek epic and lyric, gender and performance genres in Greek literature, ancient and modern Greek oral tradition, and the reception of the early Greek epic in late antiquity.	gender-sensitive, cultural heritage, international, cultural significance, culture
Ketu H Katrak	Professor, Drama	Studies Asian American literature, postcolonial literature and theory, women writers and feminist theory, diasporic literatures, and biography and autobiography.	minorities, culture, cultural heritage, cultural significance, gender-sensitive, migration
David Aaron Kaye	Professor of Teaching, Law	Studies public international law, international humanitarian law, human rights, international criminal justice, the law governing use of force, and freedom of expression.	law and regulation, international, human rights, justice, freedom of expression
Lynn Robin Keller	Professor, Merage School of Business is one department, area is Operations and Decision Technologies	Studies preferences over geographical spaces and discounting outcomes over time as well as planning protection against terrorism, environmental, health, and safety risks.	geography, safety, planning, environmental hazards, environment, health, global health risks, public health
Claire Kim	Professor, Political Science	Studies race, social movements, animals, and ecology.	social change, ecology, living beings
Hun Kee Kim	Assistant Professor, Urban Planning & Public Policy	Studies urban social-spatial transformation, globalization, infrastructure, development theory and practice	urban, urbanization, globalization, development, infrastructure
Jae Hong Kim	Associate Professor, Urban Planning and Public Policy	Measures the built environment with Google Street View (GSV) and assessing the sensitivity of GSV-based streetscape measures. Also investigates the factors that affect development decisions and housing construction delay in transit- and jobs-rich areas.	environment, development, adequate housing, transit, transportation, road traffic, infrastructure, urban
Saewung Kim	Associate Professor, Earth System Science	Monitors gases and air quality in the atmosphere with a focus on pollution related particles and their formation (e.g., ozone, aerosols) and determines how this might affect climate change policies and public health.	air quality, atmosphere, pollution, clean air, public health, climate change, health, environmental policy, policy
Young-Suk Kim	Professor, Education	Studies language, cognition, and literacy skills and instruction across languages and writing systems, including dyslexia and dysgraphia. Also studies reading comprehension, reading fluency, listening comprehension, academic language, higher order cognitive skills, written composition for English-speaking children, Dual Language Learners, English learners, and children learning to read other languages (e.g., Korean, Spanish, Chinese).	literacy, diversity, development, education, diversity, cultural diversity, cultural heritage, culture, cultural significance
Christine E King	Assistant Professor of Teaching, Biomedical Engineering	Studies engineering and STEM education, active learning, wireless health systems, rehabilitation, brain-computer interfaces, and robotics.	education, quality education, inclusivity, diversity, health, human health
David P Kirkby	Professor, Physics and Astronomy	Studies cosmology: the origin and the sustainability and evolution of the universe. Focuses on better understanding the cosmic acceleration that drives the universe to expand faster each day.	sustainability, origins of life, sustainable

Name	Title, Affiliation	Description	Keywords
Masashi Kitazawa	Associate Professor, Occupational & Environ Health; Division of OEM	Studies how to preserve the human brain over time, particularly looking at the correlation between chronic exposure to environmental chemicals and toxicants and the onset of Alzheimer's disease.	preservation, human health, wellness, well-being, health, environmental hazards, environment, toxic, disease
Susan B Klein	Professor, East Asian Studies	Studies premodern and modern theater and dance, Japanese religions, and feminist critical theory.	gender-sensitive, gender equality, gender disparities, cultural heritage, culture, international
Stuart A Kleinfelder	Professor, Electrical Engineering & Computer Science	Designs integrated sensors for eventual implementation into smart chemical and biological sensor systems for diverse medical diagnostics, genome research, workplace health and safety, and counter-terrorism.	safety, health, human health, genetic resources
Michael T Kleinman	Other teaching faculty, SOM - Department of Medicine	Studies the health effects of air pollution on animals and humans, and develops analytical techniques for assessing biological and physiological responses to exposure to environmental contaminants and for determining concentrations of important chemical species in air. Studies how air pollution and contaminants from wildfires or from other sources (e.g., cigarettes, vaping, etc.) is correlated to cardiovascular disease, particularly on the development of atherosclerosis and on changes in heart rate, heart rate variability, arrhythmias and blood pressure.	environmental, contamination, atmospheric chemistry, air pollution, human health, air, air quality, clean air, wildfires, combustion, fires, disease, health, development
Jeffrey S Kopstein	Professor, Political Science	Studies voting patterns of minority groups, ethnic politics, political violence, and anti-liberal tendencies in civil society.	civil society, violence, violent conflict, minorities, voting rights, discrimination
Kate R Kuhlman	Assistant Professor, Psychological Science	Studies how childhood adversity confers risk for poor health outcomes throughout the lifespan, with a current interest in the neurobiological processes underlying depression in adolescence.	health, human health, development, quality of life, well-being, wellness
Andre Keiji Kunigami	Assistant Professor, Film & Media Studies	Studies the history of malaria in the Amazon from a perspective encompassing phenomenology, historical materialism, critical race studies, and film and media theory.	malaria, international, discrimination, disease, tropical disease
Fadi J Kurdahi	Professor, Electrical Engineering & Computer Science; Center for Embedded Cyber-Physical Systems Director	Develops novel and efficient low-power, process-aware System-on-Chip design for mobile and portable wireless and multimedia systems.	power, efficiency, design, electric
Cynthia M Lakon	Associate Professor, Public Health/ Administration	Studies social networks and health, social support, social influence, adolescent social networks, injection drug user networks, ecological models of health, and systems science.	health, social, hazardous substances, ecology, human health

Name	Title, Affiliation	Description	Keywords
Joleah B Lamb	Assistant Professor, Ecology and Evolutionary Biology	Studies the oceans & human health, marine disease ecology, coral reefs, ecosystem services, conservation biology, urban ecology, global change biology, ecosystem engineering, environmental microbiology, marine policy, water quality, and satellite remote sensing.	human health, ocean, ecology, marine resources, disease, ecosystem, global, water quality, water, environmental urban, conservation
Matthew D Law	Professor, Chemistry	Develops solar energy conversion and storage devices built with great potential to deliver breakthroughs in the efficiency, cost and scalability of devices that produce electricity or fuels from sunlight.	solar, energy, solar energy, efficiency, energy efficiency, fuel, electric
Rodrigo Lazo	Professor,	Studies American literature, Latino studies, nineteenth-century US literature and culture, hemispheric American studies, and immigrant/migrant fiction.	international, culture, cultural heritage, migrants, migration
Mark Andrew Le Vine	Professor, History	Studies Middle East history, cultures and religions of the modern Middle East, globalization, the role of music in political struggles, culture jamming, and critical theory.	culture, international, cultural diversity, cultural heritage, peace, violence, cultural significance, diversity, moral and spiritual education, culture of tolerance, global
Alana LeBrón	Assistant Professor, Chicano/Latino Studies	Studies the processes that shape the production, maintenance, exacerbation, and mitigation of social inequalities; implications of social inequalities for inequities in health; and opportunities for intervention. Researches the intersections of race, socioeconomic position, immigrant generation, citizenship status, and gender with inequities in health, with a focus on the health of Latina/o communities and community-engaged strategies for understanding and addressing health inequities.	mitigation, social, inequality, inequity, health, human health, society, economic, discrimination, gender disparities, gender-sensitive, gender equality, community, community-based research, community-based participatory action research, engage
Ho Wai (Howard) Lee	Associate Professor, Physics and Astronomy	Studies high temperature plasma, the scientific foundation for fusion energy, which powers the stars such as the Sun and promises a clean and unlimited energy source for humanity.	nuclear power, energy, clean fuel, alternative energy, energy, solar, solar energy
Jaeho Lee	Assistant Professor, Mechanical & Aerospace Engineering	Studies how to improve the energy efficiency of state-of-the-art semiconductor devices using nanotechnology, which will lead to a breakthrough in novel energy conversion applications.	energy efficiency, energy, efficiency, nanomaterials, clean energy
Jerry Won Lee	Associate Professor,	Studies language & globalization, and critical applied linguistics (i.e., linguistics via critical theory). Currently completing a monograph on the space and semiotics of global Korea, focusing on the linguistic/semiotic landscapes of Korean and transnational Korean contexts across Asia and the Americas.	culture, social, globalization, international, diversity, global, cultural diversity, cultural heritage

Name	Title, Affiliation	Description	Keywords
Julia H Lee	Associate Professor, Asian American Studies	Studies Asian American literature and culture, ethnic American literature and culture, early twentieth-century African American literature, American railroad, Transcontinental Railroad, Chinese exclusion, Angel Island poems, and Maxine Hong Kingston,	culture, discrimination, culture, cultural heritage, cultural diversity, minorities, migrant workers
Star Lee	Assistant Professor of Teaching, Developmental and Cell Biology	Performs education research focused on implementing and evaluating culturally responsive pedagogy in biology courses. Also interested in how faculty and graduate teaching assistants approach diversity, equity, and inclusion in the science classroom.	inclusive, diversity, equity, culture, cultural diversity, education
Stephen Lee	Professor, Law	Studies immigrants and immigration law, including how enforcement realities constrain immigration law and policy across a variety of contexts, including the workplace, the criminal justice system, the food industry, and our banking system; the legal, political, and empirical significance of deferred action programs; and how the law enables violence across the immigration system.	migration, law and regulation, justice, food, agriculture, policy, public policy, violence, discrimination, minorities, migrant workers, migrants
Horacio Legras	Professor, Spanish and Portuguese	Studies Latin American culture, psychoanalysis, philosophy, political theory, popular culture and insurgency, and photography.	culture, international, cultural diversity, cultural heritage, cultural significance
Daphne Pi-Wei Lei	Professor, Drama	Studies Chinese opera, Asian and Asian American theatre, intercultural, transnational and postcolonial performances, and ethnic, gender and diasporic studies.	minorities, cultural heritage, culture, cultural significance, gender-sensitive, migration
Simon Leung	Professor, Arts-Studio Art	Uses art to study ethics, particularly related to international relations and AIDS.	ethics, ethical, moral and spiritual education, AIDS, HIV infections, international
Glenn S Levine	Professor, European Languages and Studies	Conducted field work in Germany, studying language teaching and learning for migrants, particularly refugees, at the secondary and adult education levels.	migration, migrants, displacement and migration, education, culture, international
Linda Joann Levine	Professor, Psychological Science	Studies anger, memory bias, and political polarization as well as the spread of fake news as a global concern with implications for people's votes on laws that affect women's rights and health. In research concerning Ireland's abortion referendum, conducted with colleagues in Ireland and at UCI, showed that voters are highly susceptible to forming false memories when exposed to fabricated news stories that reinforce their political views.	global, international, effective governance, governance, law and regulation, policy, reproductive rights, reproductive health, health, human health, gender-sensitive, gender disparities, gender equality
Marco Levorato	Associate Professor, Computer Science	Studies smart city and smart energy systems as well as next-generation wireless networks, signal processing, and cyber-physical systems.	smart growth, energy, urban

Name	Title, Affiliation	Description	Keywords
Guann-Pyng Li	Professor, Electrical Engineering & Computer Science; Chemical and Biomolecular Engineering; Biomedical Engineering; CALIT2	Develops sustainable data storage options and technology, as well as develops biomedical materials at the micro- and nano-scale.	nanomaterials, sustainable, sustainability
Han Li	Assistant Professor, Chemical and Biomolecular Engineering	Engineering microbes to convert renewable resources such as CO2 and biomass into fuels, commodities, and pharmaceuticals.	renewable resource, resources, renewables, carbon dioxide, carbon, fuel
Charles L Limoli	Professor, SOM - Radiation Oncology	Studies specific risks to human health, such as carcinogenesis, neurodegeneration, and cognitive performance.	human health, health, regenerative capacity, wellness, well-being
Zhihong Lin	Professor, Physics and Astronomy	Studies high temperature plasma, the scientific foundation for fusion energy, which powers the stars such as the Sun and promises a clean and unlimited energy source for humanity.	nuclear power, energy, clean fuel, alternative energy, energy, solar, solar energy
Catherine Liu	Professor, Film & Media Studies	Studies inequities related to global health and health access, particularly the inequalities and national healthcare in Taiwan during the COVID 19 pandemic.	equal access, global, global health risks, health, inequality, international, universal access, public health, equity
Erin Lockwood	Assistant Professor, Political Science	Studies global inequality, international political economy; global financial politics; risk and uncertainty; power, authority, and legitimacy in international politics.	global, inequality, economy, power, international
Melissa Lodoen	Associate Professor, Molecular Biology & Biochemistry	Studies the cellular and molecular interactions between the pathogen <i>Toxoplasma gondii</i> , which in a parasite that infects ~35% of the human population worldwide, and the host immune system. In healthy individuals, a robust immune response controls the acute infection, but the parasites establish a chronic infection, which can reactivate and cause severe disease. The goal of this research is to better understand the molecular basis for the development of disease.	population, global health risks, disease, human health, health
Margherita Raymond Long	Associate Professor, East Asian Studies	Studies Japanese literature, environmental humanities, feminist theory, and eco-documentary styles.	environmental, international, cultural diversity, cultural heritage, cultural significance, culture, gender disparities, equal rights, gender-sensitive, gender equality, ecosystem
Cristina Videira Lopes	Chancellor's Professor, Informatics	Founder and consultant of Encitra, a company specializing in online virtual reality for early-stage sustainable urban redevelopment projects.	sustainable, development, urban
Catherine Loudon	Professor of Teaching, Professor of Teaching and Vice Chair, Ecology and Evolutionary Biology	Development of physical entrapment methods for pests such as insects that reduce the use of chemical insecticides.	reduction, green chemistry, hazardous chemistry, safety, organic
Ben Lourie	Assistant Professor, Accounting	Studies the effect of a firm gender pay gap to firm performance and the effect of female accounting employees on the firm accounting outcomes.	gender pay gap, gender-sensitive, gender disparities, gender equality

Name	Title, Affiliation	Description	Keywords
John S Lowengrub	Professor, Mathematics	Studies microstructured materials, such as emulsions and polymer blends, crystals, thin films and metallic alloys, blood and biological tissues, which are fundamental to many applications involving transport, mixing, and separation of petroleum, chemical, and waste streams, food processing, composite materials, drug delivery and biomedical applications.	fuel, waste, waste management, waste generation, health, human health
Ulrike Luderer	Professor, Occupational & Environmental Health	Studies reproductive toxicology and how environmental pollutants negatively affect the female reproductive system and may be correlated with premature aging and cancer.	toxic, environmental hazards, environment, health, reproductive health, gender-sensitive, disease, human health, pollution
Deborah Irene Lutterschmidt	Associate Professor, Ecology & Evolutionary Biology	Studies life-history transitions of species over time based on better understanding the environmental, neuroendocrine, and metabolic factors that mediate these seasonal transitions.	environmental, life cycle, human health, health, wellness
Cecelia M Lynch	Professor, Political Science	Studies the issues of climate change and effects on humanitarianism in Africa.	climate change, international, developing countries, least developing countries
Mona P Lynch	Professor, Criminology, Law & Society	Studies the social, psychological, and cultural dynamics of contemporary criminal adjudication and punishment processes, including how those processes produce inequalities.	social, culture, justice, inequality, social challenge
Fabio Macciardi	Professor, Psychiatry and Human Behavior	Studies the impact of viruses on human endogenous retroviruses and human health.	health, disease, human health
Katherine Mackey	Associate Professor, Earth System Science	Studies how photosynthesis shapes, and is shaped by, biological, chemical, and physical processes in the ocean. Currently studies plastic pollution in the ocean, harmful emissions from the shipping industry, and aerosols and pollution in California.	carbon cycle, pollution, plastic waste, ocean, emissions, air pollution, water pollution, marine resources, interdependent, earth system
Marc J Madou	Professor, Mechanical & Aerospace Engineering	Researches and develops new alternative energy storage options in the Carbon MEMS (C-MEMS) project, a microbattery project which develops advanced battery technologies for use in next-generation rechargeable batteries.	alternative energy, energy, clean energy, energy efficiency
Gudrun Magnusdottir	Professor, Earth System Science	Studies atmospheric variability (climate patterns) and the patterns of variability in sea ice in observations and models in the current climate and also makes projections for future behavior using computer models.	climate dynamics, sea ice, ice, melt, climate change, global warming, climate-related
Viviana Armanda Mahieux	Associate Professor, Spanish and Portuguese	Studies Latin American and European avant-gardes, the city and urban theory, the genre of the chronicle in the 19th and 20th centuries, journalism and media theory. Recently co-authored a volume on Argentine chronicler and LGBTQ activist María Moreno (2020).	urban, international, global, culture, gender-sensitive, cultural heritage

Name	Title, Affiliation	Description	Keywords
Scott Alan Mahlke	Professor, Computer Science	Studies compilers, computer architecture, and high-level synthesis, focusing on designing the next generation computer systems that overcome challenges in performance, power consumption, and reliability.	consumption, power, efficiency, energy efficiency
Nicholas Joseph Marantz	Assistant Professor, Urban Planning & Public Policy	Studies land-use and environmental law, housing, transportation at the state and local government levels.	environmental policy, adequate housing, transportation, governance, law and regulation, policy, land use
George E Marcus	Professor, Anthropology	Consultant for the Visualizing Toxics project with the Center for Ethnography, which includes visual toxicity and toxic places in natural and urban environments.	toxic, society, natural, urban, environmental hazards, environment
Theodore Jacob Martin	Associate Professor, English	Studies 20th- and 21st-century fiction, popular genres, literary history, literary and cultural theory, literature and society, and literature and crime.	cultural heritage, culture, justice, society, cultural significance
Adam C Martiny	Professor, Ecology & Evolutionary Biology	Researches 1) how microorganisms respond and genetically adapt to environmental variations and 2) the biogeochemical role of this biodiversity. This work is not only central to identifying present day global cycles of carbon, nitrogen, and phosphorus but also for identifying and predicting the future impact of climate change on Earth as a system.	climate change, earth system, earth, environmental, adapt, biodiversity, global, carbon
Jennifer B Martiny	Professor, Ecology and Evolutionary Biology	Studies microbiomes, community ecology, microbial diversity, global change biology, and experimental evolution. Investigates the mechanisms underlying microbial biogeographic patterns and the consequences of this diversity for ecosystem functioning, particularly in the face of environmental change.	community, global, diversity, biodiversity, ecology, ecosystem, climate change, environment
Richard A Matthew	Professor, Urban Planning & Public Policy	Studies the environment, conflict and peacebuilding; transnational threat networks; international ethics.	international, ethics, peace, violence, violent conflict, environment
Melissa A Mazmanian	Associate Professor, Informatics	Studies technological advancements that can augment workers' capacities while enhancing safety and productivity and also personal well-being or creativity. This research promotes the idea that technology -- if well designed -- can support workers' needs holistically, and only in embracing this approach can we design sustainable human/technology partnerships for the future.	safety, well-being, design, sustainable, future generations
Philip McCarty	Associate Professor of Teaching, Global & International Studies	Studies Global Studies and developing interdisciplinary analytical frameworks. Examines global media, mediated ideologies, the emergence of a global public sphere and the potential of civil society to impact global issues.	global, civil society, international, society
Annie June McClanahan	Associate Professor, English	Studies contemporary American literature and culture, economic thought and history, Marxist theory, and the theory of the novel.	culture, economic, gap between rich and poor, cultural heritage, social, society

Name	Title, Affiliation	Description	Keywords
Michael G McNally	Professor, Civil & Environmental Engineering; Institute of Transportation Studies (ITS)	Studies complex travel behavior and investigates the interrelationships between transportation and land use.	travel, interdependent, land use, transportation, road traffic, public transportation, transit
Martha L Mecartney	Professor, Materials Science and Engineering	Develops new materials for alternative energy applications (e.g., fuel cells, nuclear energy).	fuel, alternative energy, energy, nuclear power, development, clean fuels
Sharad Mehrotra	Professor, Computer Science	Studies include data quality, data privacy, and emergency response technologies.	emergency preparedness, resilience, disaster, safety
Michael A Méndez	Assistant Professor, Urban Planning & Public Policy	Studies the equity and justice dimensions of climate policy looking at how policymakers need to embrace both social justice and public health principles to address the climate crisis. Recently released book titled "Climate Change from the Streets."	equity, justice, policy, climate change, social justice, public health, environmental policy, environmental justice, urban
Carrie J Menkel-Meadow	Professor, Law	Studies dispute resolution and other subjects, including cause lawyering, women in the legal profession, legal ethics, international justice, clinical legal education, feminist legal theory.	ethics, moral and spiritual education, law and regulation, education, gender-sensitive, gender inequality, gender disparities, policy
Ilhem Messaoudi Powers	Professor, Molecular Biology & Biochemistry	Studies viral pathogenesis, host defense, modulation of immunity by nutrition and aging, and the impact of the microbiome on immunity.	malnutrition, health, disease, human health, food, undernourishment
David S Meyer	Professor, Sociology	Studies social movements, social change, public policy, peace and war, and social justice.	social change, public policy, peace, violence, social justice, justice, policy
Frank L Meyskens Jr.	Other teaching faculty, SOM - Department of Medicine; Division of Hematology/Oncology	Studies drug resistance and anti-cancer strategies in order to develop more effective methods of treating melanoma in the future.	ultraviolet radiation, health, disease, human health
John C Middlebrooks	Professor, SOM - Otolaryngology	Studies how the brain processes sound. Currently working on an auditory prosthesis project to develop the next generation of technologies to restore hearing to people experiencing extreme hearing problems.	disability-sensitive, restoration, persons with disabilities, human health, health
Rasul Miller	Assistant Professor, History	Studies Black Muslim communities in the Atlantic world, Black radicalism and its impact on social and cultural movements in the twentieth century U.S., Black internationalism, and West African intellectual history.	social change, minorities, community, diversity, cultural diversity, international, social, culture, cultural heritage, cultural significance, migration
Vladimir Minin	Professor, Statistics	Studies the statistical inference for stochastic processes that describe dynamics of biological systems, with applications to phylogenetics, population genetics, infectious disease epidemiology, immunology, and systems biology.	population, disease, human health, health, genetic resources
Laura J Mitchell	Associate Professor, History	Examines social interactions in colonial and historical contexts. Particularly interested in land tenure and resource allocation, slavery, environmental issues, gender, sexuality, household formation, material culture, and trans-regional networks of exchange.	resources, slavery, tenure rights, environmental, gender-sensitive, gender equality, gender disparities, culture

Name	Title, Affiliation	Description	Keywords
Ali Mohraz	Professor, Chemical & Biomolecular Engineering	Designs superior and efficient materials for use in energy systems and healthcare.	energy efficiency, health, human health, energy
Kristine M Molina	Associate Professor, Psychological Science	Studies racism and discrimination, social inequality, health disparities, and Latinx health.	discrimination, minorities, inequality, social, health, disparities, human health
Valentina Montero Roman	Assistant Professor, English	Studies 20th- and 21st- century US, Chicana/Latinx studies, critical race and feminist theory, and novel studies/narrative theory.	discrimination, minorities, migrants, international, cultural heritage, cultural diversity, culture, justice, gender equality, gender disparities, gender-sensitive
Kailen A Mooney	Professor, Ecology & Evolutionary Biology	Studies community ecology, evolutionary ecology, and plant-insect interactions.	ecology, interdependent, wildlife, ecosystem, nature
Jefferson K Moore	Professor, Earth System Science	Studies the ocean, its organisms, and its interaction with our atmosphere. Interested in how marine organisms interact in the nutrient cycle and the atmosphere and land.	ocean, marine resources, interdependent, earth system, atmosphere
Liron Mor	Assistant Professor, Comparative Literature	Studies Hebrew and Arabic literature to reassess the meaning of political conflict. Research includes Modern and contemporary Israeli and Palestinian literature and film, the concept of Arab Jews and their cultural production, critical and political theory, conflict, law and colonization, visual studies and questions of translation and comparison.	international, conflict-related death, violence, violent conflict, law and regulation, culture
Brittany Morey	Assistant Professor, Public Health/ Administration	Studies how structural inequity and discrimination contributes to health inequity for racial/ethnic minority populations.	inequity, discrimination, health, minorities, population
Cole Morgan	Assistant Professor, English	Studies African American literature and visual culture, narrative form, and critical race theory.	discrimination, justice, minorities, cultural heritage, culture
Mathieu Morlighem	Associate Professor, Earth System Science	Studies climate change by examining ongoing changes in the Cryosphere, as well as reducing uncertainties in the ice sheet contribution to sea level rise using numerical modeling.	climate change, ice, hydrologic cycle, melt, sea level rise
Naomi Morrissette	Associate Professor, Molecular Bio & Biochemistry	Studies how microtubules function in the phylum Apicomplexa. The Apicomplexa contains a number of obligate intracellular parasites that are of medical and agricultural importance, including Plasmodium spp. (agent of malaria), Cryptosporidium (an opportunistic pathogen associated with AIDS), Toxoplasma (an opportunistic infection and cause of birth defects and miscarriage), and Theileria, Babesia and Eimeria (parasites of cattle and chickens with a substantial impact on food production). These parasites share a common ancestor and this is reflected in a number of conserved morphological features.	malaria, AIDS, human health, health, food security, food

Name	Title, Affiliation	Description	Keywords
Ayman Soliman Mosallam	Professor, Civil & Environmental Engineering	Studies natural disaster prevention by engineering advanced materials for infrastructure applications to protect against earthquakes. Also develops and verifies innovative seismic repair and rehabilitation systems for reinforced concrete, masonry, wood and steel structures.	disaster, natural, emergency preparedness, infrastructure, building, safety, development, resilience
Laurence D Mueller	Professor, Ecology & Evolutionary Biology	Studies the role of evolution in aging and the sustainability of the physical body: why aging stops in late-life as well as why we age in the first place.	sustainability, human health, preservation, health, life cycle
Dana Mukamel	Professor, DOM General Internal Medicine; General Internal Medicine	Studies quality of care, long-term care, risk-adjusted outcomes, racial disparities, health economics, and quality report cards.	quality of life, disparities, discrimination, health, economic, human health, inequality, equity
Daniel R Mumm	Associate Professor, Materials Science and Engineering	Develops reliable materials for power generation systems like alternative energy options (i.e., materials for fuel cells).	power, energy, alternative energy, fuel, clean fuels
Ana Laufersky Muñiz	Assistant Professor, Criminology, Law & Society	Studies research justice, violence, and youth. Member of the Newkirk Center for Science and Society, which focuses on the interaction between science and society and seeks to explore and think critically about the process by which scientific information is communicated to the public and policy-makers. It fosters the use of science to enhance the environment, education, health care, public infrastructure, and justice.	justice, violence, policy, environment, education, health, infrastructure
Ian Andrew Munro	Associate Professor, Drama	Studies include European drama and performance, critical theory, urban space and representation, early modern popular culture, crowds and audiences, connections between the theater and print culture, the space of the Shakespearean stage, and the theatrical performance of wit.	urban, cultural heritage, culture, cultural significance, international
Keith M Murphy	Associate Professor, Anthropology	Studies making, using, and caring for letterforms and how typeface operates as a social and cultural technology, including how it is actively designed and used not just to communicate linguistic meanings, but also to convey affect, ideology, and morality. Also studies design, form, and social democratic politics in Sweden, gesture and embodiment in design interactions, and language and cognition in the human experience.	social, culture, moral and spiritual education, democracy, international, cultural diversity
Craig Murray	Associate Professor, Chemistry	Studies atmospheric chemistry, specifically the reactions of gases in the atmosphere.	atmospheric chemistry, gas, atmosphere, environment
Bin Nan	Professor, Statistics	Studies how to improve human health by developing and applying statistical and machine learning methods.	human health, health, disease, development

Name	Title, Affiliation	Description	Keywords
Gonzalo Navajas	Professor, Spanish and Portuguese	Studies Eighteenth through twentieth-first century Spanish literature and intellectual history; film; critical theory; cultural criticism, and creative writing.	international, cultural significance, culture, cultural heritage
Edward L Nelson	Professor, SOM - Department of Medicine; Molecular Biology & Biochemistry; Hematology/Oncology	Conducts biobehavioral clinical studies in cervical cancer patients, who are typically low socioeconomic class, underserved, and often minority patients.	society, economic, underserved communities, reproductive health, gender disparities, gender-sensitive, minorities
David Neumark	Professor, Economics; Center for Population, Inequality, and Policy	Studies population, wage inequalities, and policy.	population, gender pay gap, inequality, gender disparities, policy
Walter Nicholls	Associate Professor; Vice Chair, Urban Planning & Public Policy	Studies cities, the immigration experience, and social justice.	minorities, migration, social justice, social, urban sprawl, urbanization
James Proctor Nisbet	Associate Professor, Art History and Environmental Humanities Research Cluster	Links between land use, sovereignty, and climate crisis in contemporary visual arts. Students help organize the Climate Futures Collective study group on campus. Also co-directs the Environmental Humanities research cluster, which is a group of Humanities scholars that engage with historical and contemporary issues ranging across land use, biodiversity, air quality, energy, water rights, environmental justice, toxicity, animal rights, and related topics of ecocriticism. Students conduct research concerning waste, disposal history and policy, environmental thought, environmental politics, and urban biodiversity.	land use, climate-related, biodiversity, air quality, energy, water, environmental justice, toxic, cruelty to animals, waste generation, waste management, waste, policy, environment, urban
Sergey Nizkorodov	Professor, Chemistry	Investigates chemical processes controlling air quality in urban areas.	urban, air quality, air pollution, air, clean air, pollution, contamination, atmospheric chemistry, atmosphere, troposphere
Raymond W Novaco	Professor, Psychological Science	Studies how the environment affects human stress as well as how transportation conditions (i.e., traffic congestion and high impedance commuting) and war-related stressors impact human health and well-being.	transportation, road traffic, violence, peace, human health, environment, health, well-being, travel
Andrew Noymer	Associate Professor, Public Health/ Administration; Program in Public Health	Studies infectious diseases, with a focus on mortality from pandemic infectious disease. Current interests include COVID-19 and its demographics, epidemiology, and implications for public health.	disease, mortality rate, public health, equity, human health, health
Cailin O'Connor	Associate Professor, Logic and the Philosophy of Science	Studies models of diverse groups in science and the inequities of gender.	diversity, gender-sensitive, gender equality, gender disparities, inequity
Laura Brigid O'Connor	Associate Professor, English	Studies twentieth-century poetry in English, Irish literary and cultural studies, postcolonial issues in Anglophone literature, Anglo-American modernism, translation theory and minority languages, and poetics.	international, culture, cultural heritage, minorities
Candice L Odgers	Professor, Psychological Science	Studies developmental and quantitative psychology; social inequalities and child health; new technologies and adolescent development.	development, social, inequality, health, human health

Name	Title, Affiliation	Description	Keywords
Oladele A Ogunseitan	Professor, Public Health/ Administration; UC Presidential Chair	Studies global health and development, toxic environmental pollution, microbial diversity, ecology, and health.	toxic, ecology, health, development, global, global health risks, environmental, pollution, diversity, biodiversity
Ronke M Olabisi	Assistant Professor, Biomedical Engineering	Studies orthopedic tissue engineering and regenerative medicine for injury, aging, disease, and space flight.	regeneration, regenerative capacity, health, human health, travel, disease
Gustavo Oliveira	Assistant Professor, Global & International Studies	Studies critical global ethnography of Chinese investments in Brazilian agribusiness in restructuring global agro-industrial production, investments, and trade—which drive geopolitical and economic transformations of critical importance for climate change and global environmental governance. Also studies environmental justice in the Amazon and the impact of COVID-19 on food supply chains in the United States.	global, international, agriculture, trade, economic, governance, environmental, health, global health risks, environmental justice, food security, food
Valerie A Olson	Associate Professor, Anthropology	Studies "environmental systems" and "ecosystems" as culturally formed spaces and determines how these spaces engender systemic socialites and politics. Those processes include ways to manage life/non-life assemblages, to order interactions, and to imagine and control futures.	environment, ecosystem, culture, social, future generations
Bihter Padak	Assistant Professor, Mechanical & Aerospace Engineering	Studies how to reduce the environmental impacts of combustion processes, with a focus on the emissions of carbon dioxide, nitrogen oxides, sulfur oxides, and trace metals (i.e., mercury, arsenic, and selenium).	combustion, environmental, carbon dioxide, carbon, greenhouse gas, emissions
Jane Page	Professor, Drama	Studies, facilitates, and directs plays that address persistent environmental and social justice issues such as immigration and climate change. Teaches and promotes students to become "Citizen Artists" and encourages students to see themselves as activists addressing urgent issues in their communities. Advocates outreach from the UCI campus to local groups and communities (Recipient of the 2020 Engage Great Partner Award). Works with asylum seekers who are fleeing unsustainable situations in their home countries.	environmental justice, justice, social, social justice, climate change, communities, migrants, displacement and migration
Andrew Allen Palermo	Professor, Drama	Integrates the arts and special needs issues into the fields of medicine and computer technology.	health, disability-sensitive, persons with disabilities, inclusivity, well-being
Xiaoqing Pan	Professor, Materials Science and Engineering	Studies the defects of various materials in order to develop and improve materials in the future. This has implications for better batteries and alternative energy options.	alternative energy, development, energy, clean fuel, fuel

Name	Title, Affiliation	Description	Keywords
Dimitri Papamoschou	Professor, Mechanical & Aerospace Engineering	Reduction of aircraft noise, which is directly related to a reduction of noise pollution. Studies physics of the turbulence that create jet noise, to understand them, model them, and design more silent aircraft engines.	pollution, travel, transportation, air
Daniel M Parker	Assistant Professor, Public Health/ Administration	Studies global health, focusing on malaria along the Thailand-Myanmar (Burma) border. Also studies tuberculosis among migrants as well as maternal and child health to determine the ways that human movement and migration patterns influence the distribution of infectious diseases, treatment seeking behavior and health outcomes.	malaria, international, tropical disease, migrants, migration, health, maternal mortality, reproductive health, family planning, disease, behavioral change, human health
Virginia Lynn Parks	Professor, Urban Planning & Public Policy	Analyzes a union job training program in Los Angeles studying how to successfully move low-wage workers into stable, high-paying public sector job for the new green economy.	green, economy, poverty, urban, urban sprawl
Connie Pechmann	Professor, Marketing; Paul Merage School of Business	Studies the effectiveness of various anti-smoking and anti-drug advertising tactics, the effectiveness of social media and online communities, transformative consumer research, consumer behavior, advertising strategy and regulation, and retailing, micromarketing and geographic information systems (GIS).	behavioral change, law and regulation, geography, social, communities
Andrew M Penner	Professor, Sociology	Studies inequality, focusing on race, gender, and family inequality in education and the labor market. Studies how inequalities are created, examining how people create categories, imbue them with meaning, and sort others into them. Currently studies the role of marriage and children in creating gender wage inequality in Norway, international variation in the structure of earnings inequality, the implications of racial fluidity for inequality in the United States, and how education can create and ameliorate later life inequalities.	inequality, gender inequality, gender disparities, education, gender pay gap, international, education, discrimination, equal pay
Reginald M Penner	Professor, Chemistry	Designs more efficient energy storage options for alternative energy options like batteries.	energy efficiency, energy, alternative energy, efficiency, design
Simon G Penny	Professor, Arts-Studio Art	Part of the Greensteam Project, which studies sustainable steam power for the 21st century. Also part of Orthogonal, which designs, builds, and sails, with a dash of Anthropology. Employs traditional and cultural methods to modern-day sailing.	water, sustainable, design, culture, energy
Kylie Aine Pepler	Associate Professor, Informatics; Education	Studies arts, computational technologies, computer science, constructionism, creativity, design, education, e-textiles, gaming, maker culture, new media, out-of-school learning, and wearable computing.	education, culture, quality education
Robert F Phalen	Professor, SOM - Department of Medicine	Studies the effects of air quality on human health, in particular the possible long-term consequences for lung disease due to toxic inhalation exposure.	human health, health, air quality, environmental hazards, gas, air, clean air, air pollution, pollution, toxic

Name	Title, Affiliation	Description	Keywords
Kavita Sara Philip	Professor, History	Studies environmental history, art and science, and global development.	environmental, global, development
Davin Lanier Phoenix	Associate Professor, Political Science	Studies public opinion, political communication, urban politics, and the mobilization of marginalized or underrepresented groups.	minorities, inclusivity, urban, law and regulation, policy
Paul Kayhan Piff	Associate Professor, Psychological Science	Studies Social Hierarchy, Social Class, and Economic Inequality. In a primary program of research, studies how social class (e.g., wealth) shapes fundamental interpersonal processes, including empathy/compassion, prosocial behavior, moral judgment, prejudice, and social preferences. Also currently investigating the psychology of economic privilege and inequality, examining how people make sense of relative inequalities and its downstream consequences, and studying the social effects of social mobility—both real and perceived.	social, economic, inequality, moral and spiritual education
Melissa Dawn Pinto	Associate Professor, Sue & Bill Gross School of Nursing	Studies long COVID, biological basis of long COVID, cognition and affect related to COVID, COVID symptom clusters and trajectories, mHealth; mental health, depression, cognition, and adolescents.	equity, disease, health, human health, global health risks, population, well-being, wellness
Seth Daniel Pipkin	Associate Professor, Urban Planning & Public Policy	Studies economic development, Latin America, U.S.-Mexico border, political economy, economic sociology, and labor.	international, minorities, diversity, economic, society, development, diversity, migration
Jon L Pitt	Assistant Professor, East Asian Studies	Studies environmental humanities, exploring the intersections of Japanese literature, visual/sound media, ecology, and environmental philosophy. A current book project focuses on the entanglements of plant life and botanical science with human subjectivity in modern Japanese literature and film.	environmental, international, cultural heritage, cultural significance, cultural diversity, culture, diversity, ecology, nature
Francesca Polletta	Professor, Sociology	Studies social movements, democracy, culture, sociology of law, political sociology, and social theory.	social change, culture, society, law and regulation, social
Michael J Prather	Professor, Earth System Science	Studies atmospheric chemistry; discovers ozone and methane chemistry in remote troposphere. Assesses the impacts of humans on atmospheric composition within both scientific and policy arenas. Research areas include: the chemically reactive greenhouse gases, particularly methane and ozone; understanding the factors controlling their past and projected abundances; and quantifying their role in climate change, including mitigation options.	atmospheric chemistry, greenhouse gas, troposphere, atmosphere, policy, public policy, environmental policy, mitigation, climate action, climate change, climate mitigation

Name	Title, Affiliation	Description	Keywords
Jessica Dawn Pratt	Associate Professor of Teaching, Ecology and Evolutionary Biology	Conducts research to understand the emotional responses that students have to learning about the state of the environment. Investigating how feelings of eco-grief or climate anxiety relate to environmental knowledge, attitudes and values, pro-environmental behaviors, and different axes of motivation. Develops effective approaches to teaching about planetary crises while also instilling critical hope, emotional resilience, and a determined self-efficacy in students. Funded by UROP, also studies with students the potential for intergenerational knowledge transfer on sustainable behaviors via the implementation of sustainability lesson plans and the provision of eco-friendly products in elementary classrooms.	environment, respect for nature, harmony with nature, earth, resilience, traditional knowledge, ecosystem, education, quality education
Sarah Danielle Pressman	Professor, Psychological Science	Examines the role that positive emotions factors play in influencing stress, health, and well-being. Studies pathways including physiological processes such as stress hormone reactivity, cardiovascular response, immune system change, as well as health behaviors like sleeping, exercise, and other leisure activities.	well-being, health, behavioral change, human health, bodily health
Zachary Price	Assistant Professor, Drama	Studies the political, economic, and historical conditions that shape performance and cultural production. Seeks to understand how performance and cultural production shape, shift, disrupt, and reify cultural and political conditions. Focuses on African American theater and Black performance.	economic, minorities, culture, cultural heritage, culture significance
Francois William Primeau	Professor, Earth System Science	Interested in the role of the ocean in the Earth's climate. Re-calculating the rate at which carbon dioxide enters the oceans, acting as a carbon sink from the atmosphere to the ocean. Uses inverse modeling techniques.	ocean, carbon dioxide, carbon cycle, carbon, atmosphere, climate dynamics, interdependent
Michael Stephen Pritchard	Associate Professor, Earth System Science	Studies next-generation climate simulation with a focus on the physics of cloud-related processes in the virtual atmosphere. Applies a range of traditional and experimental new approaches to study the global atmosphere in a virtual laboratory, including conventional global climate models and experimental approaches such as "super parameterized" prototype global models to help predict climate change.	climate action, hydrologic cycle, climate dynamics, climate-related, climate change, water, atmosphere, global, atmospheric chemistry
Tianchen Qian	Assistant Professor, Statistics	Studies methodology research which applies to mobile health — the use of mobile devices to promote healthy behavior change, such as physical activity, smoking cessation or stress management.	behavioral change, health, human health, well-being

Name	Title, Affiliation	Description	Keywords
Bradley A Queen	Associate Professor of Teaching, English	Recently authored a paper (2020) on the First Amendment, reproductive rights, crisis pregnancy centers, commercial speech, and marketplaces of misinformation.	reproductive rights, basic rights, freedom of speech, disinformation, reproductive health
Isabela Quintana	Assistant Professor, Asian American Studies	Studies comparative and relational Ethnic Studies, Asian American History, Chicana/Latina History, race and gender, and borderlands and empire.	minorities, discrimination, culture, cultural heritage, gender-sensitive, international
Rajagopalan Radhakrishnan	Professor, English	Studies critical theory, postcoloniality, poststructuralism, postmodernism, cultural critique, nationalisms and diasporas, globalization, ethnicity and minority discourse, gender and feminisms.	culture, migration, globalization, minorities, gender-sensitive, gender equality, gender disparities
Charles C Ragin	Professor, Sociology	Studies comparative and historical sociology, social inequality, and political sociology.	society, social, inequality
Nasrin Rahimieh	Professor, Comparative Literature	Studies modern Persian literature, Iranian diaspora, and women's writing.	international, migration, gender-sensitive, gender equality, displacement and migration
Amir Rahmani	Assistant Professor, Sue & Bill Gross School of Nursing	Studies mental health and wearable devices, COVID long haulers, and a home-based, culturally and language specific intervention for dementia family caregivers using wearable technology for health for stress reduction and education.	culture, inclusive, diversity, equal access, health, well-being, wellness, disease, strengthen families
Vibhuti Ramachandran	Assistant Professor, Global & International Studies	Studies postcolonial law, state practices, critical approaches to human rights, humanitarianism, development, and NGOs, institutional responses to sex trafficking and labor trafficking, global legal developments around gender and sexuality, and intersections between gender, labor, childhood, and migration.	trafficking, forced labor, decent work, global, international, migration, health, gender-sensitive, gender equality, gender sensitive, development
James T Randerson	Professor, Earth System Science	Studies climate-carbon cycle feedbacks, fires, land cover change, remote sensing, tropical deforestation, global change in arctic and boreal ecosystems, terrestrial ecosystems and climate policy.	climate change, carbon cycle, fires, land use, ecosystem, climate-related, environmental policy, global, deforestation
Uma Rao	Professor, SOM - Psychiatry & Human Behavior	Studies adolescent mood disorders, substance use disorders, and obesity and pain. In particular, studies the ethnic influences on stress, energy balance and obesity in adolescents, the prevention of adolescent risky behaviors, and the effects of childhood maltreatment on neurocircuitry in adolescent depression.	energy, health, development, human health, wellness, well-being, minorities, culture, cultural diversity
Wilfred W Recker	Professor, Civil & Environmental Engineering; Institute of Transportation Studies (ITS)	Studies the time and cost of transportation: complex household decisions regarding the scheduling of out-of-home activities, travel to those activities, and allocation of personal automobiles for travel.	transportation, travel

Name	Title, Affiliation	Description	Keywords
David J Reinkensmeyer	Professor, Mechanical & Aerospace Engineering	Develops physically interacting, mechatronic devices ("rehabilitators") to help the nervous system recover movement ability after neurologic injuries such as stroke or spinal cord injury. Also studies the adaptive control processes that enable motor learning throughout the life span.	adapt, health, regeneration, regenerative capacity, life cycle
Keramet A Reiter	Associate Professor, Criminology, Law & Society	Studies prisons, legal history, criminal justice policy, criminal and civil rights law, and law and society.	justice, law and regulation, rights, society, basic rights, protect the rights
María Rendón	Associate Professor, Urban Planning and Public Policy	Studies immigrant integration, children of immigrants, urban neighborhoods, segregation and urban poverty, race/ethnicity, social inequality and social policy. Examines the integration process of Latino immigrants and their children in the United States with special attention to role of spatial inequality and how urban neighborhoods shape life trajectories, particularly educational attainment and social mobility.	migration, urban, community, poverty, discrimination, minorities, inequality, education, social
Laura Alejandra Reyes Ruiz Del Cueto	Assistant Professor, Urban Planning & Public Policy	Studies affordable housing, social justice, and equality.	social justice, adequate housing, equality, equity, social
Bryan Randolph Reynolds	Professor, Drama	Studies performance activism worldwide, Shakespeare, Renaissance drama, critical theory, feminist theory, performance theory, and cultural studies.	gender-sensitive, gender equality, culture, international, cultural heritage, cultural significance
Markus Walter Ribbe	Professor, Molecular Biology & Biochemistry	Studies the assembly and mechanism of nitrogenase, which is useful for the agricultural and industrial products it generates, namely, ammonia, hydrogen and hydrocarbons. Discovered that V-nitrogenase can convert CO to hydrocarbons, which can help developing cost-efficient processes for industrial production of biofuels in the future.	greenhouse gas, agriculture, hydrogen, efficiency, renewables, renewable energy
Debra J Richardson	Other teaching faculty, Informatics; Donald Bren School of Information and Computer Sciences	Studies how software engineering can be made to address socially relevant problems in the domains of development and sustainability. Investigating how software engineering can be extended to help solve some of the world's critical problems and support human development in less economically developed regions and sustainability of the environment.	developing countries, least developed nations, environment, sustainability, sustainable, development, social, human health, global, international
Eric Rignot	Professor, Earth System Science	Studies Greenland ice sheets, sea level rise, climate change, and global warming.	ice, melt, sea level rise, climate change, global warming, sea ice, Greenland
Katherine Claire Ritchie	Assistant Professor, Philosophy	Studies metaphysics, philosophy of language, feminist philosophy, and social philosophy.	social, gender equality, gender-sensitive, gender disparities
Stephen G Ritchie	Professor, Civil & Environmental Engineering; Institute of Transportation Studies (ITS)	Researches modern applications of artificial intelligence technology to improve the management, operation, and rehabilitation of the nation's highway system.	transportation, air quality, road traffic, public transport, transit, travel

Name	Title, Affiliation	Description	Keywords
Annie Eun-Young Ro	Associate Professor, Public Health/ Administration; Program in Public Health	Studies the social determinants of immigrant health, health demography, discrimination and health, and social epidemiology.	social, health, migration, discrimination, social, disease
Michael Jay Robinson-Dorn	Professor of Teaching, Law	Research and clinical activities on a wide range of sustainability-related topics including the conservation and protection of habitats, sacred places, and imperiled species. Research and clinical work on a range of activities related to environmental justice, human health, and sustainability.	sustainability, habitat, cultural significance, environmental justice, human health, endangered species, sustainable, cultural heritage, culture
Belinda Robnett-Olsen	Professor, Sociology; School of Social Sciences	Studies social movements, race and ethnicity, gender, and social change.	social change, minorities, discrimination, gender-sensitive, gender equality, gender disparities
Tara Alexa Rodman	Assistant Professor, Drama	Studies the circulation of performers and performance forms among Japan, Europe, and the US in the first half of the 20th century. Studies how the inescapability of the performer's body serves to construct and congeal racial, ethnic, and national meanings, both on stage and off.	discrimination, minorities, culture, cultural heritage, cultural significance, international
Nancy Rodriguez	Professor, Criminology, Law & Society	Examination of family engagement among incarcerated persons and correctional staff. Transform prisons and safely reduce prison populations, improve culture and conditions, increase transparency and bolster prospects for successful reintegration.	safety, society, justice, culture, population, strengthen families, engage
Alejandra Rodriguez Verdugo	Assistant Professor, Ecology & Evolutionary Biology	Studies how microbes within communities adapt to environmental change, particularly important for climate change.	adapt, community, biodiversity, ecosystem, environmental, climate change
Fatimah Tobing Rony	Professor, Film & Media Studies	Studies visual biopolitics, particularly how the world views people of color (e.g., Indonesian women) by looking at culture and history of trafficking and violence in Europe. Also challenges the justification of the preventative deaths, exploitation, and dehumanization of people of color.	preventable deaths, culture, trafficking, forced labor, violence, international, gender-sensitive, human rights, rights, minorities
Michael R Rose	Professor, Ecology & Evolutionary Biology	Studies how to sustain and prolong life by slowing and postponing the effects of aging over time.	sustainable, life cycle, human health, health
Diego Rosso	Professor, Civil and Environmental Engineering	Researches the energy footprint of water reclamation plants; monitors microplastics in water reclamation, and analyses the resilience of water infrastructure.	footprint, energy, water, untreated wastewater, plastic waste, resilience, infrastructure
Miryha Gould Runnerstrom	Associate Professor of Teaching, Public Health/ Administration; Program in Public Health	Studies environmental psychology, environment and behavior research, wellness, and global environmental change	environment, wellness, global, environmental, behavioral change
Ann K Sakai	Professor, Ecology and Evolutionary Biology	Works with conservation and restoration of endangered species in Hawaii.	endangered species, conservation, restoration

Name	Title, Affiliation	Description	Keywords
Eric Steven Saltzman	Professor, Earth System Science	Studies ice cores and climate change. Researches the relationship between fire and climate on long time scales using polar ice cores. Studies reconstructing man's impact on atmospheric hydrogen using polar firn air.	ice, climate change, climate-related, atmosphere, hydrogen, air
Gary S Samuelsen	Other teaching faculty, Mechanical & Aerospace Engineering	Studies energy generation, from fossil fuel combustion to advanced fuel cell technology, and their impacts on the environment.	fossil fuel, combustion, fuel, clean fuels, environment, climate-related
Brett F Sanders	Professor, Civil & Environmental Engineering; FloodRISE UCI	Studies beach morphodynamics for sustainable management using local sediment supplies. Focuses on the study of metropolitan beaches, and we specialize in observations and modeling of beach change to raise awareness and to inform management efforts that equitably save beaches and the many services that they deliver to people and ecosystems.	sustainable, local materials, marine resources, equity, ecosystem
Judith Haymore Sandholtz	Professor, Education	Studies teacher professional development, teacher education, and school-university partnerships.	development, education, multi-stakeholder partnerships
Rossella Santagata	Professor, Education	Incorporates equity, diversity, and inclusiveness into work with underserved communities and research about teacher learning and professional development and learning in STEM, with a focus on both development of youths' conceptual understanding and video as a tool to study learning interactions.	equity, diversity, inclusivity, underserved community, development
Jean Daniel M Saphores	Professor, Civil & Environmental Engineering; Institute of Transportation Studies (ITS)	Studies sustainability and the incorporation of sustainability into environmental systems and transportation systems; studies environmental and natural resource economics and urban economics.	sustainability, environmental, earth system, transportation, resources, natural resources, urban, economic, natural
Barbara W Sarnecka	Professor, Cognitive Science	Studies how young children acquire number concepts. Also researches social cognitive development, the development of judgment and decision making, adult moral psychology, and most recently, scientific writing, all while making the research process and open, accessible, and transparent as possible.	social, development, responsive decision-making, moral and spiritual education, equal access, transparent
Brian Sato	Professor of Teaching, Molecular Bio & Biochemistry	Studies how we can improve STEM education at the undergraduate level.	education, quality education, diversity, inclusive
Chelsea Angela Schields	Assistant Professor, History	Studies gender and sexuality, race, oil, and global history in international contexts.	fossil fuel, oil, fuel, international, global, discrimination, gender-sensitive
Julie M Schoenung	Professor, Materials Science and Engineering	Studies efficient manufacturing of ceramics and safer alternatives to lead-inclusive manufacturing.	safety, manufacturing, efficiency
Evan A Schofer	Professor, Sociology	Examines cross-national differences in environmental NGO activity, protests, environmental policy, and participation in international environmental treaties.	environmental, environmental policy, international, global dialogue, culture, policy

Name	Title, Affiliation	Description	Keywords
Stephen Matthew Schueller	Associate Professor, Psychological Science	Studies digital mental health, and specifically on expanding the accessibility and availability of mental health resources through technology. Focuses common mental health issues such as depression and anxiety, as well as positive psychology, which emphasizes promoting happiness and well-being.	equal access, health, human health, well-being, wellness, disease
Gabriele M Schwab	Professor, Comparative Literature	Studies Twentieth-Century Comparative Literature with a special emphasis on the Americas, including Native American literature of indigenous peoples; critical theory; psychoanalysis; cultural studies; literature and anthropology; feminism.	indigenous peoples, international, culture, cultural heritage, cultural significance, gender-sensitive, gender disparities, gender equality, equal rights
Bert Mitchell Scruggs	Associate Professor, East Asian Studies	Studies representation, culture, and nuclear power in Taiwan.	culture, nuclear power, international, global, cultural diversity, cultural significance
Patricia Seed	Professor, History	Studies Latin American history, world history and the history of science and technology. Current research interests include the Renaissance histories of cartography and astronomy. Also performs Informatics research focusing on the challenges of building ethnographic and historical games.	minorities, global, international, cultural heritage, cultural significance, cultural diversity
Jared Sexton	Professor, African American Studies	Studies critical theory, race & sexuality, coalition politics, and contemporary U.S. cinema.	minorities, gender-sensitive, discrimination, cultural heritage, cultural significance, culture
Gregory C Shaffer	Professor, Law	Studies how international law can respond to the challenges of global and transnational challenges and crises, ranging from climate change to the pandemic, structural racism and human rights violations to cybersecurity and other threats.	international, law and regulation, global, climate change, global health risks, human rights, discrimination, safety, law and regulation, disease, human health
Athan J Shaka	Professor, Chemistry	Focuses on nuclear chemistry and power as well as the change of materials as they age.	nuclear power, energy, alternative, clean energy
Devin M Shanthikumar	Associate Professor, Business	Studies corporate reporting of sustainability activities, market responses to sustainability information.	sustainability, sustainable
Kelli G Sharp	Assistant Professor, Dance	Studies injury prevention and wellness for dancers using motion capture system and applying methods of analysis to determine the relationship of motion in space we can further reduce injuries. Also studies development of novel technologies to advance rehabilitation strategies for individuals with neurological disorders by incorporating tools, such as motion capture systems and functional magnetic resonance (fMRI) with dance/movement therapy.	preservation, wellness, health, well-being, regeneration, human health, bodily health
Deanna Shemek	Professor, European Languages and Studies	Studies Italian literature, Italian and European history, women and gender studies, Renaissance and early modern studies, digital humanities, and the history of communications media.	gender-sensitive, international, culture, cultural heritage, cultural significance

Name	Title, Affiliation	Description	Keywords
Manabu Shiraiwa	Associate Professor, Chemistry	Studies the properties and multiphase processes of aerosol particles and their effects on atmospheric chemistry, air quality, and human health.	pollution, air quality, air pollution, clean air, atmospheric chemistry, human health, health, troposphere
Roxane Cohen Silver	Professor; Associate Director of ADVANCE, Office of Inclusive Excellence, Psychological Science	Studies coping with traumatic life events (personal losses and collective traumas), stress, social psychology, and health psychology.	social, well-being, wellness, health, human health
Sandi Simpkins-Chaput	Professor, Education	Studies organized after-school activities, motivation, family influences, diversity & equity, immigration & culture, and STEM.	education, quality education, diversity, equity, migration, culture, strengthen families, community
Charles A Smith	Professor, Political Science	Studies human rights and how law and legal institutions fulfill or inhibit rights: examines the contestation over rights in the US and in global, international, and comparative frameworks using a variety of methodologies. Studies sex trafficking and equity and how that affects the status of women.	human rights, law and regulation, rights, basic rights, international, global, trafficking, decent work, forced labor, equity, gender disparities, gender inequality, gender-sensitive
David A Smith	Professor, Sociology; Social Problems	Studies urbanization, development, and social change with an emphasis in international trade and exchange in the world-economy (and its implications for economic growth and development), Third World cities and development, and global urbanization & "world cities" (including Los Angeles as a "global city").	urbanization, development, social change, social, trade, international, economic, least developed countries, global, developing countries
James N Smith	Professor, Chemistry	Researches atmospheric aerosol formation, which has implications on human health and welfare (air pollution research) as well as for the Earth System (land-atmosphere interactions, climate, cloud formation).	atmospheric chemistry, atmosphere, human health, air pollution, earth system, climate change, climate dynamics, interdependent, precipitation, hydrologic cycle, air, clean air, health
Patrick J Smyth	Chancellor's Professor; Director, UCI's Data Science Initiative, Computer Science	Develops statistical machine learning methods and algorithms, particularly for complex large-scale datasets, including applications to time-series, spatial, and spatio-temporal data. A particular focus of interest is analysis of large remotely-sensed data sets in the context of climate science, including long-standing collaborations with faculty in UCI's Earth System Science department and the Jet Propulsion Laboratory. Recently led (2016-2021) the NSF-funded National Research Traineeship program at UCI, supporting graduate students at UCI working at the interface of machine learning and physical sciences.	climate, earth system, climate-related, climate dynamics

Name	Title, Affiliation	Description	Keywords
David A Snow	Other teaching faculty, Sociology; Olive Tree Initiative	Studies protests and social movements; socioeconomic marginality with an emphasis on homelessness and poverty; social psychology focusing on changes in cognitive orientation and interpretive perspectives, with an emphasis on framing processes, conversion, and identity work; religion and the persistence of belief; and qualitative field methods.	society, social, economic, social change, poverty, adequate housing
Anton Braxton Soderman	Assistant Professor, Film & Media Studies	Studies new ways to design video games to make them more inclusive and diverse.	inclusivity, diversity, disability-sensitive, gender-sensitive
Soroosh Sorooshian	Professor, Civil & Environmental Engineering; Center for Hydrometeorology & Remote Sensing (CHRS)	Studies Hydrometeorology, water resources systems, climate studies and application of remote sensing to earth science problems with special focus on the hydrologic cycle and water resources issues of arid and semi-arid zones.	water resource, water, hydrologic cycle, earth, drought, water scarcity
Cascade J Sorte	Associate Professor, Ecology and Evolutionary Biology	Studies the mechanisms of response to global change. Specific research includes (1) species' distributions, (2) the impacts of climate-driven shifts in these distributions, (3) the interactions between climate change and species invasions, and (4) ways that species can "cope" with climate change (e.g. via acclimation, adaptation, and re-distribution).	global, adapt, climate change, climate-related, living beings, wildlife
Constance Steinkuehler Squire	Professor, Informatics	Develops games that promote learning, health, the self-regulation of attention, and the ability to recognize someone else's feelings and to respond productively to them, all with the idea that computers can improve human life, do good in the world and make things more sustainable for the planet.	sustainable, health, well-being, wellness, development, living beings, education
Kurt Dean Squire	Professor, Informatics	Develops games to enhance education from all around the world by increasing accessibility and quality of education. Pushes the idea of grassroots communities where people across the world could work together to build new learning resources.	education, international, equal access, communities, quality education, global, resources, development
Vojislav Stamenkovic	Professor, Chemical & Biomolecular Engineering	Studies energy conversion and storage, heterogeneous catalysis as well as functional biomaterials, creating new opportunities for sustainable and environmentally neutral technologies such as fuel cells, electrolyzers and batteries in transportation and the electric grid, while evaluating impacts on mobility and connectivity.	catalysis, renewable resources, sustainable, environment, fuel, clean fuels, transportation, electric, travel
Judith Stepan-Norris	Professor, Sociology	Studies how to change gender inequity in higher education.	gender-sensitive, gender inequality, gender disparities, education, quality education, equity
Oswald Steward	Professor, SOM - Anatomy & Neurobiology; Reeve Irvine Research Center, Neurobiology and Behavior	Studies spinal cord injury, regeneration, epilepsy, excitotoxicity, and animal models of neurodegenerative diseases.	disease, regenerative capacity, regeneration, health, human health

Name	Title, Affiliation	Description	Keywords
Daniel S Stokols	Other teaching faculty, Informatics; Psychological Science	Study of people’s transactions with their social and physical environments—especially how they influence personal and public health. Spans the fields of social ecology, environmental psychology, urban planning, epidemiology, and public health. Member of advisory board, Solutions that Scale. Presented and published an article on returning ecological wealth to non-human species the alt.CHI conference.	social, environment, public health, ecology, urban, planning, disease
Serk Bae Suh	Associate Professor, East Asian Studies	Currently writing a book that examines the developmental state in 1970s and 80s South Korea, when South Korean society underwent rapid industrialization and urbanization during the period. The state propaganda machine constantly invoked the rhetoric of individual sacrifice for the common good to mobilize the people for state-led economic development and an ideological campaign against North Korea. By looking at a diverse range of texts that raised the issues of utility, labor, violence, and democracy with regard to the problem of sacrifice, the book highlights the instances of South Korean literary discourse that imagined literature as the sacrificial site of struggle for freedom from the iron rule of utility.	common good, international, culture, cultural heritage, society, urbanization, development, economic, democracy, violence, labor standards
Bryan Lamont Sykes	Associate Professor, Criminology, Law & Society	Studies fertility, mortality, population health, mass imprisonment, social inequality, and research methodology to understand changing patterns of inequality — nationally and abroad.	mortality rate, population, health, justice, reproductive health, social, inequality, international
Celia Claire Symons	Assistant Professor, Ecology and Evolutionary Biology	Studies the effect of road salt contamination on mountain lakes, lake food web dynamics across a eutrophication gradient, and experimentally determined how predators change the speed at which species shift their ranges under climate change.	contamination, freshwater, water, food, water resources, climate change, adapt
Shauhin A Talesh	Professor, Law	Studies civil procedure, consumer law, insurance, organizations, empirical legal studies, law and society, law and inequality, and the law and social change.	law and regulation, inequality, social change, disparities, society
Theresa Jean Tanenbaum	Assistant Professor, Informatics	Studies transformative play; questions of identity, justice, playfulness, design, and futurity. We ground our work in a combination of media studies methods (close reading of games and systems), design methods (creating research prototypes and speculative designs), and ethnographic methods (studying communities of practice)	justice, communities, inclusive, diversity, society, future generations, design
Sora P Tanjasiri	Professor, Epidemiology; Disparities & Community Engagement	Focuses on community health promotion to reduce cancer health disparities among diverse populations, particularly Asian Americans and Pacific Islanders.	community, public health, health, disparities, diversity, cultural diversity, discrimination, population

Name	Title, Affiliation	Description	Keywords
Darryl G Taylor	Professor, Music	Founded the African American Art Song Alliance and studies, which promote and uplift the contributions made by African-Americans to art song, be they composers, performers or scholars. Art song here is defined as belonging to the tradition of Western art culture.	minorities, inclusivity, cultural heritage, cultural diversity, cultural significance
Jennifer Terry	Professor, Gender and Sexuality Studies	Examines feminist cultural studies; science and technology studies; comparative and historical formations of gender, race, and sexuality; critical approaches to modernity; state-sponsored violence and biomedicine; and American studies in transnational perspective.	culture, violence, effective governance, governance, international, discrimination, gender disparities, gender inequality, gender-sensitive, minorities
Krishnansu Sujata Tewari	Professor, SOM - Obstetrics & Gynecology; Division of Gynecologic Oncology	Studies various cancers and women's health.	disease, human health, gender-sensitive, health, reproductive health, family planning
Julian F Thayer	Professor, Psychological Science	Studies health psychology, psychopathology, health disparities, heart rate variability, emotions, stress, and neuroimaging research.	health, disparities, human health, bodily health, well-being, wellness
Ngugi Wa Thiong'o	Professor, Comparative Literature	Studies African literature, postcolonialism, and globalization.	international, globalization, diversity, cultural heritage, cultural significance, culture
Jacqueline L Thomas	Assistant Professor, Mechanical & Aerospace Engineering	Studies in hybrid electric aircraft procedure modeling.	travel, electric, electric vehicles, transportation, air, air quality, atmosphere, troposphere, efficiency
Danielle Thomsen	Assistant Professor, Political Science	Studies gender inequalities in politics, specifically analyzing contemporary patterns of women's representation and why the number of Democratic women in Congress has increased dramatically since the 1980s while the number of Republican women has not.	inequality, gender disparities, gender inequality, gender-sensitive, governance, effective governance
Kevin R Thornton	Associate Professor, Ecology & Evolutionary Biology	Studies how species such as the fruit fly can adapt, at the molecular level, to environmental changes.	adapt, environmental, climate change
Elizabeth Noelle Tinsley	Assistant Professor, East Asian Studies	Studies Buddhism, East Asian religions, anthropology of religion, art history (Asia), Japanese tantric/esoteric Buddhism, ritual practice, Kami worship, Buddhist/religious visual cultures, and spirit possession.	international, culture, moral and spiritual education, cultural heritage, cultural significance
Douglas J Tobias	Professor, Chemistry	Studies the structure and dynamics of biological molecules and interfaces between aqueous solutions that are important in atmospheric chemical processes. Uses computer models to interpret the chemistry of complex systems in the atmosphere, including how air pollutants interact with biological systems like human lungs.	atmosphere, air pollution, pollution, air quality, human health, health

Name	Title, Affiliation	Description	Keywords
William M Tomlinson Jr.	Professor, Informatics	Created an interactive simulation of the Accountable Capitalism Act, a piece of legislation under consideration by the US Senate, which led to four publications across computing, law, and economics, exploring various aspects of likely social and environmental impacts of this legislation. Examined the sustainability implications of more than two dozen "blockchain for good" systems. Additionally exploring the creation of sustainability-related knowledge graphs. The first publication examines sustainability-related knowledge graphs created by a group of students who had taken a course on sustainability and computing. Also developed a novel conceptual tool to include ecosystem effects in design processes. Lastly, examined public perceptions of California secession, a potential instance of societal fracturing that could be caused by failure to address sustainability challenges. Upcoming projects will be presented with additional faculty titled "Student-Generated Knowledge Graphs about Sustainability" and A Measure of Species' Charisma."	sustainability, sustainable, environmental, environment, social, law and regulation, economic, design, ecosystem, society
Rodolfo David Torres	Professor, Urban Planning & Public Policy	Studies the Latino experience, cities, and immigration justice.	minorities, discrimination, urban sprawl, urbanization, diversity, cultural heritage, justice, social justice
Aaron Trammell	Assistant Professor, Informatics	Studies the incorporation of diversity, inclusivity, and equity in role playing games and board games such as Dungeons and Dragons.	diversity, inclusivity, equity, gender-sensitive, disability-sensitive
Judith Treas	Other teaching faculty, Sociology	Studies aging and gender inequalities.	gender disparities, gender inequality, gender-sensitive, discrimination, society, inequality, disparity
Kathleen K Treseder	Professor, Ecology & Evolutionary Biology	Studies role of fungi in mediating ecosystem responses to global change. Aims to improve predictions of future trajectories of global change, by incorporating feedbacks governed by fungi.	global, climate change, ecosystem
Susan E Trumbore	Professor, Earth System Science	Studies the dynamics of carbon cycling in plants and soils, tree mortality, tropic forest biodiversity and dynamics and interactions between terrestrial ecosystems, people, regional climate and element cycling.	carbon cycle, carbon dioxide, carbon, biodiversity, soil, ecosystem, climate-related, interdependent
Susan F Turner	Professor, Criminology, Law & Society; Center for Evidence-Based Corrections	Examination of family engagement among incarcerated persons and correctional staff. Transform prisons and safely reduce prison populations, improve culture and conditions, increase transparency and bolster prospects for successful reintegration.	safety, society, justice, culture, population, strengthen families, engage

Name	Title, Affiliation	Description	Keywords
Kristin E Turney	Professor, Sociology	Studies social inequality; family demography; population health; incarceration and punishment; intergenerational transmission of disadvantage; child wellbeing.	inequality, social, population, health, justice, disadvantaged communities, well-being, future generations
Nicola Ulibarri	Assistant Professor, Urban Planning & Public Policy	Uses political, social, and technical perspectives to evaluate the sustainability of environmental planning and decision-making practices. Investigates the interaction between people, infrastructure, and the environment, with a focus on redesigning planning, permitting, and operations to meet more diverse social and environmental needs. Evaluation of new groundwater management approaches proposed by groundwater sustainability agencies in California. Is part of a global network in an ongoing evaluation of climate adaptation efforts around the globe. Conducting focus groups to assess how decision-makers and community members in Los Angeles understand flood risk. Conducting interrelated studies to determine barriers to considering 1) environmental justice and 2) climate change impacts in environmental impact assessment processes for infrastructure. Studied public participation processes in the Regional Greenhouse Gas Initiative (climate mitigation policy in Northeast US).	social, environmental, planning, sustainability, interdependent, infrastructure, design, diversity, groundwater, water, freshwater, adapt, climate-related, global, community, policy, strengthen local communities, environmental justice, climate change, greenhouse gas, climate mitigation
Kojiro Umezaki	Professor, Music	Studies contemporary intercultural practices in music associated with the historic Silk Road regions and develops of portable and mobile interactive music systems and a creator of mixed-media collaborative works with interests in forms of hybrid music at the intersection of tradition and technology.	international, culture, cultural heritage, cultural significance, collaborative
Georges Yves Francois Van Den Abbeeel	Professor, European Languages and Studies	Studies French and European philosophical literature, travel narrative and tourism/migration studies, European studies; Western American literature and history, site interpretation and preservation, humanities and public policy, critical theory and aesthetics, francophone literature (Belgian, Canadian, Caribbean and Vietnamese), history of cartography; media history and theory (print culture, cinema history, especially classic Hollywood, Italian neo-realism and French nouvelle vague, and digital media), and the history of the French intellectual.	travel, international, migration, preservation, cultural heritage, culture, cultural significance, public policy
Elizabeth A Van Es	Professor, Education; Teacher Education Program, Faculty Director	Studies teachers' responsive instructional practice. Also studies teachers' abilities to notice equity, focusing on how teachers' commitments to equity inform their noticing and instructional practice.	equity, quality education, education, responsive decision-making

Name	Title, Affiliation	Description	Keywords
Isabella Velicogna	Professor, Earth System Science; Physical Sciences	Studies how ecosystems respond to climate change, with special focus on ice sheets, glaciers, and the implications of their melting.	climate change, ecosystem, ice, sea ice, melt, hydrologic cycle, global warming
Nalini Venkatasubramanian	Professor, Computer Science	Studies how to enable effective management and utilization of resources in the evolving global information infrastructure.	resources, resource efficiency, resource-use efficiency, global, infrastructure
Veronica M Vieira	Professor, Public Health/ Administration, Program in Public Health	Analyzes the distribution of birth defects and infant morbidity throughout space and time in relation to air pollution. Also examines the contributions of known risk factors and environmental exposures to the underlying geographic pattern of disease risk.	mortality rate, reproductive health, family planning, air pollution, environmental, environmental hazards, disease, geography, air
Linda Trinh Vo	Professor, Asian American Studies	Studies Asian American studies, racial and ethnic relations, immigrants and refugees, gender relations, and community and urban studies.	minorities, migration, migrants, gender-sensitive, community, urban, discrimination, displacement and migration
Samantha Vortherms	Assistant Professor, Political Science	Study assessing the impact of Chinese investment abroad on environmental outcomes in host countries and how different sources and types of foreign investment in China differentially impacts local environmental outcomes.	environmental, international, global
Jasper Alexander Vrugt	Associate Professor, Civil and Environmental Engineering	Uses models and measurements to improve theory, understanding and predictability of complex Earth systems such as agriculture, ecology, avian species, groundwater, and soil and determine how these systems may respond to changes in their system, which has implications for climate change and other large-scale changes.	agriculture, ecology, groundwater, wildlife, soil, adapt, climate change
Feng Wang	Professor, Sociology	Studies social inequality in post-socialist societies, focusing on the trends, causes, and implications of changing economic and social inequality in formerly socialist societies, especially in China, including rising income inequality, poverty, social policies, and public perception of distributive justice. Also studies patterns of migration and urbanization, patterns of social inequality between migrants and non-migrants, and the reintegration of rural migrants into urban societies in China.	social, inequality, society, economic, international, law and regulation, policy, public policy, justice, poverty, migration, urbanization, urban
Yun Wang	Professor, Mechanical & Aerospace Engineering	Studies fuel cells and batteries for more efficient alternative energy options.	energy efficiency, efficiency, energy, alternative energy, fuel, clean energy
Jeffrey Nathan Wasserstrom	Professor, History	Studies globalization, gender, and urban environments.	urban, environment, globalization, gender disparities, gender inequality, gender-sensitive

Name	Title, Affiliation	Description	Keywords
Gregory Alan Weiss	Professor, Chemistry	Green chemistry lab that develops more environmentally friendly methods to synthesize pharmaceuticals and other chemicals. Invents new methods requiring less water, energy, and producing less waste than the conventional approaches.	green chemistry, water, energy, waste, waste generation, water efficiency, efficiency, energy efficiency
Lari B Wenzel	Professor, DOM General Internal Medicine; Department of Population of Health & Disease Prevention (GIM)	Studies health-related quality of life outcomes and survivorship.	health, quality of life, human health
John M Whiteley	Professor, Occupational & Environmental Health	Studies social ecology of peace, citizen advocacy for environment, health and safety, and the moral development from late adolescence to early adult development.	social, ecology, environment, health, safety, moral and spiritual education, development
Katrine Whiteson	Associate Professor, Molecular Bio & Biochemistry	Studies human associated microbial and viral communities using metagenomics, metabolomics, microbial genetics and ecological statistics to answer questions about how microbes and viruses affect human health. Interested in understanding how individual and persistent human-associated microbial and viral communities affect health.	human health, disease, communities, ecology, health, genetic diversity
Christopher A Whytock	Professor, Law	Studies international relations, international law, transnational litigation, and conflict of laws.	international, law and regulation, global
Amy Wilentz	Professor, English	Studies formal mechanisms of literary journalism, travel journalism as a literary form, explanatory journalism, and the role of journalism for the everyday reader.	journalism, social, society, travel
Travis Wiles	Assistant Professor, Molecular Bio & Biochemistry	Studies host-microbe systems biology, microbiome engineering, pathogenesis, antibiotic resistance, and microbial genetics.	human health, disease, environmental engineering, genetic diversity
Adrienne Williams	Assistant Professor of Teaching, Developmental and Cell Biology	Studies biology education and student success in STEM.	education, quality education, diversity, inclusion
Dewayne P Williams	Assistant Professor, Psychological Science	Studies social health psychology, health disparities, discrimination, stigma, prejudice, stereotyping, psychophysiology, stress and health, and self-regulation.	social, health, human health, disparities, discrimination
Tiffany Jean Willoughby-Herard	Associate Professor, African American Studies	Studies South Africa, poor whites, race in foreign policy, diaspora, comparative racial politics, black political thought, third world feminisms, feminist pedagogy, decolonizing theory, comparative political theory, community and civic engagement, and radical thought.	international, the poor, poverty, minorities, gender-sensitive, gender equality, community, engage, developing countries, least developed countries
Dominik Franz Xaver Wodarz	Professor, Public Health/ Administration	Studies the dynamics of cancer and its treatment, the dynamics of virus infections and the immune system, and general evolutionary dynamics and population dynamics.	disease, population, health, human health, global health risks

Name	Title, Affiliation	Description	Keywords
Yoon Jin Won	Assistant Professor, Mechanical & Aerospace Engineering	Develops efficiency enhancements in energy, water, manufacturing processes, and electronics cooling by fundamentally manipulating liquid-solid-vapor interactions and transport phenomena across multiple length and time scales.	efficiency, energy, energy efficiency, water, manufacturing
Karna Lorraine Wong	Assistant Professor of Teaching, Urban Planning and Public Policy	Studies environmental justice, affordable housing, community development, government policy, nonprofit management, and social justice with a strong commitment to engaged scholarship and community-based research.	environmental justice, justice, adequate housing, community, development, policy, social justice, engage, community-based research
Sheron Coreen Wray	Associate Professor, Dance	Uses interdisciplinary methods from African cultural theory and ethnography to explore African aesthetics of improvisation. Employs cross-cultural methods to transpose the widespread Yoruba knowledge of their traditional belief system demonstrated through participation in ritual and modern theatre performance, to create an innovative layer to extend the bounds of performance, enabling interactivity and a new model for a 'Neo-African' performance work. Demonstrates integration of improvisation methods from West African dance performance culture, defining an improvisation nomenclature of African cultural origin, enabling audiences co-authorship via the use of hand held technologies.	culture, cultural significance, cultural heritage, diversity, international
Judy Tzu-Chun Wu	Professor, Asian American Studies; The Humanities Center	Studies intersecting social hierarchies, such as those based on race, gender, sexuality, and citizenship, particularly how individuals form identities and navigate/protest social inequalities.	discrimination, gender-sensitive, gender disparities, gender inequality, social, inequality, minorities, migration, migrants
Jun Wu	Professor, Public Health/ Administration; Program in Public Health -- Environmental and Occupational Health	Examines the association of green space and heat waves with pregnancy outcomes. Also examined wildfire trends and the impact to local communities in the last two decades in California; and climate change sentiment, engagement and adaptation through a community-based outreach campaign.	green space, heat waves, reproductive health, mortality rate, wildfires, human health, strengthen local communities, climate change, communities, engage, adapt, community-based research, community-based participatory action research, air quality, air pollution
Ruqian Wu	Professor, Physics and Astronomy	Studies catalysis for more efficient reactions and solar powered materials for more efficient alternative energy.	catalysis, solar, solar energy, efficiency, energy, energy efficiency, alternative energy, power
Huolin Xin	Associate Professor, Physics and Astronomy	Studies chemical imaging of battery and fuel cell materials and in situ environmental study of heterogeneous catalysts.	fuel, alternative energy, energy, environmental, catalysis

Name	Title, Affiliation	Description	Keywords
Di Xu	Associate Professor, Education	Studies policies of higher education, the impacts of educational programs, interventions, and instructional practice on student course performance, persistence, and degree completion. Also evaluates the effects of governmental policies and projects on educational equity and efficiency.	education, quality education, equity, policy, effective governance, public policy, governance, efficiency
Guiyun Yan	Professor, Public Health/ Administration; Program in Public Health	Studies the ecology of African highland malaria, a major public health problem in sub-Saharan Africa. Examines the mechanisms leading to the resurgence of malaria in African high-elevation areas, including climate, land use, topography and antimalarial drug resistance in the Plasmodium parasites.	malaria, ecology, international, global, climate-related, land use, public health
Jenny Y Yang	Associate Professor, Chemistry	Works on developing more efficient methods of CO2 capture from flue gas and air and the development of catalysts for the generation of renewable (carbon-neutral) fuels.	carbon dioxide, carbon, efficiency, gas, air, development, catalysis, renewable energy, fuel, renewables, carbon neutrality
Jin-Yi Yu	Professor, Earth System Science	Studies global climate change in the coupled atmosphere-ocean system and regional-scale variations in the Asian and North American monsoons.	global, climate change, interdependent, atmosphere, ocean, climate dynamics, hydrologic cycle
Alyson K Zalta	Assistant Professor, Psychological Science	Studies trauma-related psychopathology and explores treatment and resilience for vulnerable populations, such as urban dwellers, veterans, and homeless youth.	vulnerable communities, population, urban, the poor, poverty, resilience, well-being
Salvador Elias Zarate	Assistant Professor, Anthropology	Studies race, gender, labor, and the environment; southern California domestic work and gardening labor; Marxism and women of color feminism; historical methods and anthropology; ethnic studies. Examines how racialized and immigrant workers form the backbone of U.S. society, yet are often the most vulnerable to exploitation and social exclusion. Uses ethnographic and archival research to illuminate how these workers' perspectives challenge the conditions of invisibility at the core of their labor to produce new forms of social belonging.	gender-sensitive, environment, migrant workers, migration, minorities, discrimination, gender inequality, gender disparities, gender-sensitive, vulnerable, social, society
Charles S Zender	Professor, Earth System Science	Identifies the processes that cause glaciers, ice sheets, sea ice, and snow covered surfaces to melt, and how these processes are changing due to mankind's influences.	ice, sea ice, melt, precipitation, hydrologic cycle, water, interdependent
Iryna Zenyuk	Associate Professor, Chemical and Biomolecular Engineering	Research on renewable energy such as fuel cells, batteries and electrolyzers.	renewable energy, fuel, clean fuel, energy, renewables
Kai Zheng	Professor, Informatics	Studies how to create intuitive, consumer-facing applications that empower people to take control over their own health and wellness management to help them engage in positive health behavior change.	health, wellness, behavioral change, engage, human health