

Sustainability Faculty Research Inventory 2021-2022

Faculty Name	Contact	Department	Description
Jennifer Brodmann	jbroadmann@csudh.edu	Accounting, Finance, & Economics	Conducting research on Sustainable Finance and have collaborated with Rama Malladi on the liquidity, performance, and investor preference of Socially Responsible Investment (SRI) funds.
Nestor Garza	ngarza@csudh.edu	Accounting, Finance, & Economics	Climate change economics.
Rama Malladi	rmalladi@csudh.edu	Accounting, Finance, & Economics	The liquidity and performance of SRI funds.
Mahmoud Salari	msalari@csudh.edu	Accounting, Finance, & Economics	Climate change economics.
Hakjoon Song	hsong@csudh.edu	Accounting, Finance, & Economics	Dr. Song has research interests in interdisciplinary areas between accounting and finance/management/environmental issues and constructs. "Song, H., H. Chun, J. Brodmann, and Y. Song. 2020. "Organized Labor and Corporate Philanthropy - Evidence from Korea-" Business Ethics: A European Review, Forthcoming.; Lee, Y., B. Park, H. Song, and K. Yook. 2017. The Value Relevance of Environmental Audits -Evidence from Japan -. Business Strategy and the Environment 26 (5): 569-708.; Yook, K., H. Song, D. Patten, and I. Kim. 2017. The Disclosure of Environmental Conservation Costs and Its Relation to Eco-efficiency - Evidence from Japan -. Sustainability Accounting, Management and Policy Journal 8 (1): 20-42."

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Kristin Ellsworth	kellsworth@csudh.edu	Art and Design	Green architecture- Domed Homes of Buckminster Fuller and Wallace Neff.
Janine Gasco	jgasco@csudh.edu	Anthropology	Ethnoecology.
Ambyr Hardy	ahardy@csudh.edu	Anthropology	Cultural anthropology: human adaptation to their physical and cultural environments.
Sarah Lacy	slacy@csudh.edu	Anthropology	Climactic instability impact on early human health, biological anthropology.
Jerry Moore	jmoore@csudh.edu	Anthropology	Archaeology: Prehistoric Cultural Landscapes and Built Environments.
Susan Needham	sneedham@csudh.edu	Anthropology	Food Culture in Cambodia: Influences and Practices.
Kenneth E. Seligson	kseligson@csudh.edu	Anthropology	"Water Management Systems of a Smaller Puuc Community in Yucatan"; I am an anthropological archaeologist studying human-environment relationships in the northern Maya lowlands of the Yucatan Peninsula. Specifically, my research focuses on understanding changing human-environmental relationships and resource management practices in the hilly Puuc region of the Yucatan.

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Sarah Taylor	sartaylor@csudh.edu	Anthropology	Yucatán, Maya ethnology, political ecology and land use, critical development studies, agrarian reform and socioeconomic adaptation, community-based conservation strategies and natural resource management, tourism.
Devon Tsuno	dtsuno@csudh.edu	Art and Design	Art and Environmental Sustainability in High Fashion.
Karin Kram	kkram@csudh.edu	Biology	"PCB Degradation by Bacteria in an Urban Wetland"; My studies are aimed at understanding the evolution of bacteria in laboratory conditions. <i>Escherichia coli</i> can grow in the laboratory for years without the addition of nutrients, in a phase of growth called long-term stationary phase (LTSP). Under this condition, there is strong selection for mutations and changes in gene expression that enable the bacterial cells to survive and reproduce. The genomes of the cells that survive LTSP can be sequenced and analyzed for mutations that allow cells to adapt to LTSP. I have shown that culture vessel, culture volume, and media type affect growth and survival in LTSP, and have shown that there are specific mutations that arise in these conditions. Genes that are identified through sequencing and expression analysis can be assayed for fitness advantages by constructing mutations and competing mutant strains against wild-type cells. The ultimate goal of my work is to elucidate the molecular mechanisms underlying evolution.

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Samantha Leigh	sleigh@csudh.edu	Biology	Pervasiveness of Microplastics in the Southern California Bight.
Charlene McCord	cmccord@csudh.edu	Biology	"Sustainability through restoring CSUDH's soil"; My research aims to observe, compare, and understand the biodiversity of marine organisms. My interdisciplinary interests are rooted in three questions: 1) How do marine animals work (biomechanics and behavior)? 2) How are marine animals put together (anatomy and morphometrics)? 3) How and why have marine organisms and their spectacular array of unique traits evolved (phylogenetics, biodiversity, and comparative methods)?
Terry McGlynn	tmcglynn@csudh.edu	Biology	Tropical ecology, behavioral ecology.
Sonal Singhal	ssinghal@csudh.edu	Biology	"Species Distribution Modeling of Threatened Bats in Global Biodiversity Hotspots"; Research encompasses three major topics: (1) understanding the connection between population-level processes and broad scale diversity patterns in lizards & snakes, (2) determining how parthenogenesis affects the genome evolution of lizards, and (3) disentangling the role of ecology and history in hybridizing desert plants. My teaching interests are in general biology, evolution, and bioinformatics, and I enjoy working with students in analyzing big data sets.

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Kathryn Theiss	ktheiss@csudh.edu	Biology	Effects of climate change on plants; I am fascinated by the evolution of plant reproduction and how reproductive strategies mitigate or aggravate conservation issues, especially global climate change. I combine field, molecular, and greenhouse studies of both rare and common species to explore these topics.
Justin Valliere	jvalliere@csudh.edu	Biology	Effects of Nitrogen Deposition, Climate, and Fire on Soil Nitrogen Availability.
Roya Azizi	razizi@csudh.edu	Business Administration and Public Policy	Inefficiency in the workplace with a focus on the Healthcare Industry - Green Healthcare, an Environmentally Sustainable Methodology - Incorporating Sustainability Research into your Classroom.
Thomas Norman	tnorman@csudh.edu	Business Administration and Public Policy	Building socially responsive businesses in Eastern Europe following the UN's Sustainable Development Goals.
Kari Pederson	kpederson@csudh.edu	Chemistry & Biochemistry	HIV receptor research (UN SDG 3.3- End AIDS epidemic).
Parveen Chhetri	pchhetri@csudh.edu	Earth Science and Geography	"Geographic Information Systems for Invasive Species Research and Better Communication with Stockholders"; GIS studies of environmental problems: oil refinery contamination of ground water supplies, urban growth, impact of natural disasters, etc.
Cheyne Cummings	ccummings@csudh.edu	Earth Science and Geography	"Waste Audits at CSUDH"; Urban development and geohydrology.

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John Keyantash	jkeyantash@csudh.edu	Earth Science and Geography	Hydroclimatology in the context of drought; Climate change.
Tianjun Lu	tilu@csudh.edu	Earth Science and Geography	Leveraging Citizen Science and Low-Cost Sensors to Characterize Air Pollution Exposure of Disadvantaged Communities in Southern California.
Brendan McNulty	bmcnulty@csudh.edu	Earth Science and Geography	Groundwater contamination by gasoline oxygenates, hydrogeology.
Ralph Saunders	rsaunders@csudh.edu	Earth Science and Geography	Effects of urbanization on animal populations in the urban-wildlands interface.
Ashish Sinha	asinha@csudh.edu	Earth Science and Geography	Climate change, historical precipitation patterns and climate variability.
Donna Dueker	ddueker@csudh.edu	Health Science	Environmental health with a focus on exposure assessment and the health effects of localized sources of air pollution.
Pamela Krochalk	pkrochalk@csudh.edu	Health Science	Environmental and community health.

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Matt Mutchler	mmutchler@csudh.edu	Health Science	HIV prevention and management of Urban Community Research Center (UN SDG 3.3- End AIDS epidemic).
Shannon Roback	sroback@csudh.edu	Health Science	"The Prevalence of n-Nitrosodimethylamine in Our Produce"; I focus on improving the safety of drinking water by mitigating contaminants of emerging concern. I work closely with local and regional water agencies to develop interventions and strategies for combating toxic water pollutants. My research interests include mitigation of emerging contaminants and toxic disinfection byproduct formation at drinking water, recycled water and advanced water treatment plants, identification of new toxic contaminants and transformation products and developing and improving treatment strategies for these contaminants.
Archana M. Sharma	asharma@csudh.edu	Health Science	Global health and global education.
Joshua Jeffers	jjeffers@csudh.edu	History	Environmental history.
Lorna Fitzsimmons	lfitzsimmons@csudh.edu	Humanities	Research interests in studies in literature, film and media, musicology, performance, health and medical humanities, cognitive studies, environmental studies, sustainability, disability studies, and gender studies. Paper Presentation, "Xenotransplantation: Ethical, Social, Technical, and Environmental Issues from Cross-Cultural Perspectives," 12th Annual Western Michigan University Medical Humanities Conference, September 22-23, 2022.
Xuefei (Nancy) Deng	ndeng@csudh.edu	Information Systems & Operations Management	"Gig" economy research: "Empowering or Exploring: The Dual Effects of Micro-task Crowdsourcing on the Underprivileged" (UN SDG 8).

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Jian-yu (Fisher) Ke	jke@csudh.edu	Information Systems & Operations Management	<p>Two of my current research are related to sustainability and the interdependence of ecological and social/economic systems.</p> <ul style="list-style-type: none"> • 2022-2023 California SB1 Research Grant, Co-PI, “Should state land in Southern California be allocated to warehousing goods or housing people? Analyzing transportation, climate, and unintended consequences of supply chain solutions”, CSU Transportation Consortium, Mineta Transportation Institute • 2023-2024 California SB1 Research Grant Proposal, Co-PI, “Analyzing the trend of commercial vehicle miles traveled in Southern California: Influential factors, environmental justice, and policy implications”, CSU Transportation Consortium, Mineta Transportation Institute
Jenney Hall	jehall@csudh.edu	Interdisciplinary Studies	Regenerative agriculture, and impact of urban agriculture on ecological health.
Annemarie Perez	aperez@csudh.edu	Interdisciplinary Studies	Culture including cultural food consumption and production (includes support for research into topics of environmental studies using the university farm, fast fashion, recycling, and consumption).
Jen Stacy	jstacy@csudh.edu	Liberal Studies	Social justice education and integrating critical pedagogy. Stacy’s research centers on familial outreach in schools. Particularly, she is interested in learning about how schools perceive minoritized populations, and how this perception influences their outreach initiatives.
Margaret M. Manning	mmanning@csudh.edu	Negotiation, Conflict Resolution, & Peacebuilding	"Dual EPA Superfund Sites: A Community Cries for Justice and Safety out for Justice and Safety."
Chacko Kannothisra	ckannothisra@csudh.edu	Management and Marketing	Currently in the data analysis phase for this project. One of the research gap we are trying to address is that community-based entrepreneurship (CBE) strategies for local sustainable development (Peredo & Chrisman, 2006) have received less attention in the literature compared to social entrepreneurship or mainstream entrepreneurship.