Sandy Sum

Ph.D. Candidate · Economics & Environmental Science

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Education __ UC Santa Barbara (UCSB) Ph.D. Economics & Environmental Science 2019 - 2025 (expected) Committee: Tamma Carleton (Chair), Chris Costello, Olivier Deschênes, Kyle Meng UC Santa Barbara M.A., Economics 2015 - 2016 National University of Singapore B.A., Economics 2009 - 2013 Utrecht University VISITING STUDENT, ECONOMICS DEPARTMENT 2012 Research Positions _ Graduate Student Researcher, Green Water Economics, UCSB Environmental Markets Lab (emLab) PI: Tamma Carleton & Ram Fishman 2023-2024 Graduate Associate, UCSB Broom Center for Demography 2020-2021 Graduate Student Researcher, California EPA Carbon Neutrality Study, UCSB emLab Research Analyst, Quantifying Sustainable Development, UC Berkeley Global Policy Lab 2016-2019 PI: Solomon Hsiang 2015-2016 Ecological Data Intern, National Center for Ecological Analysis and Synthesis Publications -Sum, S. "Impact of Droughts on Served Drinking Water Disparities in California, 2007–2020" Am. J. Public Health, August 2024. Deshmukh, R., Weber, P., Deschenes, O., Hernandez-Cortes, D., Kordell, T., Mallow, C., Magin, T., Meng, M., Sum, S., Thivierge, V., Uppal, A., Lea, D., & Meng, K. "Well setbacks limit California's oil supply with larger health benefits and employment losses than excise and carbon taxes" Nature Energy. Policy Brief, June 2023. Deshmukh, R., Weber, P., Deschenes, O., Hernandez-Cortes, D., Kordell, T., Mallow, C., Magin, T., Meng, M., Sum, S., Thivierge, V., Uppal, A. & Meng, K. "Equitable low-carbon transition pathways for California's oil extraction" Nature Energy, May 2023. Working Papers ___ Sum, S. "Trading Water and Work: Labor and Production Shifts under California's Groundwater Markets" (Job market paper) Proctor, J., Carleton, T., and Sum, S.. "Parameter recovery with remotely sensed variables" (in prep) (equal authorship; order randomized) Selected Works in Progress — "The Unequal Economic Risks and Opportunities of Global Atmospheric Moisture Recycling" (with Tamma Carleton and Ram Fishman) "The Health Impacts of Agricultural Water Savings in California's Central Valley" (with Anna Boser) "Immigration Restrictions and Labor Market Outcomes: A Robust Replication" (with Jimena Rico-Straffon and Ruth Morales)

Policy Reports_

[&]quot;The Economics of Water: Valuing the Hydrological Cycle as a Global Common Good" Commissioned report for Global Commission on the Economics of Water, 2024

[&]quot;Enhancing equity while eliminating emissions in California's supply of transportation fuels" Commissioned report for California EPA with emLab, 2021

2	Graduate Summer Research Fellowship, Property & Environmental Research Center (PERC)
2	Bren Summer Research Fellowship, UCSB Bren School
2	California Coastal Regional Equity Research Award*, UCSB Blum Center H. William Kuni Research Award*, (with Anna Boser) UCSB Bren School Berkeley Summer School in Environmental and Energy Economics Diversity Fellow, UC Berkeley & Sloan Foundation Bren Summer Research Fellowship, UCSB Bren School Travel Grant (x3), UCSB Bren School & Graduate Student Association
24	Graduate Summer Fellowship Grant*, California Policy Lab Bren PhD student grant for equity research, UCSB Bren School
indicates grant i	s over \$10K
Presentations.	
2	24 Environmental & Resource Economics Workshop, CU Boulder Water Markets for Conservation Workshop, PERC Summer Seminar Series, PERC Summer Conference, Association of Environmental and Resource Economists Interdisciplinary PhD Workshop on Sustainable Development, Columbia
24	University Engaging The World panel on Health Equity, Chapman University The Bren School PhD Research Symposium, UCSB Bren School
2	The Occasional Workshop in Environmental and Resource Economics, UCSB The Workshop in Environmental Economics and Data Science, University of Oregon Social Cost of Water Pollution Workshop, Cornell Atkinson Center for Sustainability & US EPA Berkeley/Sloan Summer School in Environmental and Energy Economics, UC Berkeley Annual Environmental Justice Symposium, UCSB Bren School Interdisciplinary PhD Workshop on Sustainable Development, Columbia
2	University The Bren School PhD Research Symposium, UCSB Bren School
Teaching Expe	erience
	t, University of California, Santa Barbara
Spring 20 Winter 20	
Spring 2022 & 2	Economics of Environmental Management (ESM 204), Profs. Christopher Costello and Tamma Carleton
Fall 2022 & 20 Winter 20	23 Statistics for Environmental Data Science (EDS 222), Prof. Tamma Carleton
Student Q&A resp	oondent
November 2	BREAD-IGC Virtual PhD Course on Environmental Economics, Prof. Tamma Carleton
Professional A	ctivities
91	Bren School Masters in Environmental Data Science Lecturer Search
2022-pres 2021-2	ent Economics and Environmental Science Student Group, Student Representative