

Sandy Sum

PH.D. CANDIDATE · ECONOMICS & ENVIRONMENTAL SCIENCE

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Education

UC Santa Barbara (UCSB)

PH.D. ECONOMICS & ENVIRONMENTAL SCIENCE

2019 - present

- 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

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| 2024 | Graduate Student Researcher , Green Water Economics, UCSB 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 |
| 2016-2019 | Research Analyst , Quantifying Sustainable Development, UC Berkeley Global Policy Lab (PI: Solomon Hsiang) |
| 2015-2016 | Ecological Data Intern , National Center for Ecological Analysis and Synthesis |

Working Papers

Sum, S. “Distributional Implications of Environmental Markets: Insights from California Groundwater”
(**Job market paper**)

Proctor, J., Carleton, T., and **Sum, S.** “Parameter recovery with remotely sensed variables” (under review)
(equal authorship; order randomized)

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.

Policy Reports

“Enhancing equity while eliminating emissions in California’s supply of transportation fuels”
Commissioned report for California EPA with emLab, 2021

Awards, Fellowships, & Grants

- 2024 **Graduate Summer Research Fellowship**, Property & Environmental Research Center (PERC)
- 2023 **Bren Summer Research Fellowship**, UCSB Bren School
- 2022 **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
- 2021 **Graduate Summer Fellowship Grant**, California Policy Lab
 Bren PhD student grant for equity research, UCSB Bren School

Presentations

- September 2024. Environmental & Resource Economics Workshop at CU Boulder
- August 2024. Water Markets for Conservation Workshop, Property & Environment Research Center
- June 2024. Summer Seminar Series, Property & Environment Research Center
- May 2024. Summer Conference, Association of Environmental and Resource Economists
- April 2024. Interdisciplinary PhD Workshop on Sustainable Development at Columbia University
- October 2023. Engaging The World panel on Health Equity at Chapman University
- 2021 & 2023. The Bren School PhD Research Symposium
- April 2023. The Occasional Workshop in Environmental and Resource Economics at UCSB
- October 2022. The Workshop in Environmental Economics and Data Science at the University of Oregon
- September 2022. Social Cost of Water Pollution Workshop at Cornell Atkinson Center for Sustainability & US EPA
- August 2022. Berkeley/Sloan Summer School in Environmental and Energy Economics
- April 2022. Interdisciplinary PhD Workshop on Sustainable Development at Columbia University
- May 2022. Annual Environmental Justice Symposium at the Bren School

Teaching Experience

Teaching Assistant, University of California, Santa Barbara

- Spring 2024 **Master's Capstone Project Course II (EDS 411B)**, Prof. Carmen Galaz García
- Winter 2024 **Master's Capstone Project Course I (EDS 411A)**, Prof. Carmen Galaz García
- Spring 2022 & 2023 **Economics of Environmental Management (ESM 204)**, Profs. Christopher Costello and Tamma Carleton
- Fall 2022 & 2023 **Statistics for Environmental Data Science (EDS 222)**, Prof. Tamma Carleton
- Winter 2021 **Environmental Economics (ECON 115)**, Prof. Kyle Meng

Student Q&A respondent

- November 2023 **BREAD-IGC Virtual PhD Course on Environmental Economics**, Prof. Tamma Carleton

Professional Activities

- 2023 **Bren School Masters in Environmental Data Science Lecturer Search Committee**, Student Representative
- 2022-present **Economics and Environmental Science Student Group**, Student Representative
- 2021-2022 **The Bren School PhD Research Symposium**, Committee Member