

Sandy Sum

PHD STUDENT · ECONOMICS & ENVIRONMENTAL SCIENCE

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Education

UC Santa Barbara (UCSB)

PH.D. ECONOMICS & ENVIRONMENTAL SCIENCE

2019 - present

- Advisor: Tamma Carleton
- Committee members: 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

2020-2021 **Graduate Student Researcher**, Environmental Markets Lab (emLab), UCSB

2016-2019 **Research Analyst**, Global Policy Lab, UC Berkeley

2015-2016 **Ecological Data Intern**, National Center for Ecological Analysis and Synthesis

Working Papers

California droughts disproportionately worsen drinking water quality for Latino communities
Under review

Equitable low-carbon transition pathways for California's oil extraction with emLab
Accepted at *Nature Energy*

*Parameter recovery with remotely sensed variables** with Jonathan Proctor and Tamma Carleton
Under review

The distributional effects of water markets under factor-biased structural change

*Labor market impacts of immigration restrictions in the US** with Ruth Morales and Jimena Rico Straffron

(*all authors contributed equally)

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

- 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

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 2022 & 2023 **Economics of Environmental Management (ESM 204)**, Profs. Christopher Costello and Tamma Carleton
- Fall 2022 **Statistics for Environmental Data Science (EDS 222)**, Prof. Tamma Carleton
- Winter 2021 **Environmental Economics (ECON 115)**, Prof. Kyle Meng

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 **The Bren School PhD Research Symposium**, Committee Member