

# Joseph O'Brien

## Curriculum Vita

### Contact Information

UCSD Department of Philosophy  
Ridge Walk Academic Complex Bldg. 1  
Arts & Humanities Room 0436

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[Google Scholar](#)

Country of Citizenship: United States

Last Updated: 11/2024

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### Areas of Research

AOS Philosophy of Science, Epistemology (Social/Formal)

AOC Digital Ethics, Machine Learning, Logic

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### Education

University of California, San Diego (La Jolla, CA)

Ph.D., Philosophy Department

2023 - Current

Carnegie Mellon University (Pittsburgh, PA)

Summer School in Logic and Formal Epistemology

Summer 2023

William & Mary (Williamsburg, VA)

Majors: Philosophy and Data Science, *Algorithms Concentration*

2019 - 2023

(B.S. *magna cum laude*, 5/2023)

Thesis: "Seeing What We Can't: evaluating implicit biases in deep learning satellite imagery models trained for poverty prediction"

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### Publications

[1] Runfola, Dan, Anthony Stefanidis, Zhonghui Lv, Joseph O'Brien, and Heather Baier. "A multi-glimpse deep learning architecture to estimate socioeconomic census metrics in the context of extreme scope variance." *International Journal of Geographical Information Science* (2024): 1-25.

### Miscellaneous

["Evaluation of the Effects of the COVID-19 Pandemic on GEF Activities"](#) 63rd Global Environmental Facility Council Meeting to the United Nations Council (2022) Coauthor

["Water Management Policy in Afghanistan After the Fall of the Afghan Government"](#) - Tearline.mil (2023) Contributing Researcher

["Environmental Impacts of Conflict in Ukraine: Exploring Attacks on Oil Refineries and Watershed Degradation"](#) - Tearline.mil (2023) Contributing Researcher

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### **Selected Talks**

“A Critical Examination of the Interpretability Paradigm”

- EASST-4S 2024 Amsterdam: Making and Doing Transformations (July 2024)

“The Signal-Noise Distinction in Statistical Modeling”

- UCSD Science Studies Graduate Student Symposium (April 2024)
- UCSD Graduate Philosophy Colloquium (May 2024)
- Philosophy of Statistics Early Career Summer Workshop, University of Minnesota (August 2024)
- 2024 Philosophy of Science Association Biennial Meeting Poster Session (November 2024)

“Algorithmic Scientific Communities”

- UCSD Graduate Philosophy Colloquium (November 2024)

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### **Service**

Graduate Representative, UCSD Philosophy Department	August 2024 - Current
CTY San Diego Chapter Volunteer and Instructor (Philosophy outreach organization offering in-school programs for high school students)	January 2024 - Current
Assistant Director, San Diego Chapter	August 2024 - Current
Organizer, Perception Reading Group, UCSD	August 2024 - Current

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### **Fellowships and Awards**

First-year fellowship, University of California, San Diego, 2023-2024 (\$30,000)

geoFellows award, Commonwealth Cyber Initiative, 2023 (\$500)

Honors Fellowship, Charles Center, William & Mary, 2022 (\$4,000)