

PAIGE HOEL

Nothing great was ever achieved without enthusiasm

EDUCATION

University of California, Los Angeles

2019 - present

Ph.D. Student, Oceanography, Advisor Daniele Bianchi

Working with the ocean biogeochemistry and ecosystem group led by P.I. Daniele Bianchi. Focusing on analysis of the coupled physical and biogeochemical modeling of the Southern California Bight

University of California, Los Angeles

2019-2022

MSc. Atmospheric and Oceanic Science

University of California, Santa Barbara

2014-2018

BSc. Earth Science (climate emphasis), BSc. Physical Geography

RESEARCH INTERESTS

My research interests include coastal oceanography, biogeochemical modeling, kelp and macroalgae, ocean acidification, harmful algal blooms, Southern California Bight, GIS, coastal management, and scientific communication.

RESEARCH EXPERIENCE

NOAA Office of Ocean Exploration and Research

2022

Explorer in Training

Conducted mapping operations aboard the RV Okeanos Explorer for a month cruising in the US EEZ of Puerto Rico. As an Explorer-in-Training I assisted with hydrographic data gathering, cleaning, and exploration. In addition I contributed figures and analysis in the cruise report as well as creating an interactive GIS dashboard summary of the cruise.

GO SHIP A-20 Cruise

2021

CTD watch-stander

Worked aboard the RV Thomas Thompson for a month cruising on the repeat hydro-graphic survey line A20. As a CTD watch-stander I assisted with all CTD rosette operations, in addition to taking samples of salinity and nitrate isotopes.

National Center for Atmospheric Research

2018-2019

Scientific visitor

Worked on GIS related tasks and information for the National Security Applications Program in the Research Applications Lab. In this position, I produced maps necessary for NCAR scientists in addition to conducting research under specific grants. I worked in ArcGIS Pro, ArcGIS online, and created GIS based Storymaps for projects with collaborators in academia, government, and private industry.

Coast Lab at UCSB

2017-2018

Undergraduate research fellow

Aid to the Coast lab in their ecosystem metabolism metadata search. Worked through 60 years of previous ecosystem analysis to extract the source of data, the method of data sampling, and potential environmental factors that would cause outliers or extreme results.

UCSB Earth Science Department

2017-2018

Senior Thesis

Completed a senior honors thesis titled "Modeling threat of runoff to coastal ocean environments" This work was done in collaboration with Benjamin Halpern and Alexa Freedston at the Bren School of Environmental Science and Management.

TEACHING EXPERIENCE

Teaching Assistant

2020-Present

UCLA Atmospheric and Oceanic Science Department

I have been a teaching assistant for AOS 1-Climate Change: from puzzles to policy (Spring 2020, Fall 2020, Spring 2021, Fall 2021, Winter 2022), a large (100+ students) general education course. I hold weekly discussion sections, office hours, and grade homework and exams.

Climate Change for Cool Kids

2020-Present

Creator

Created a two month long informal lecture series aimed at presenting climate science in a fun, casual, and digestible manner to non-scientists. The lectures led to the creation of a monthly climate newsletter (ongoing), aimed at informing the same non-scientific audience of exciting developments in the world of climate science.

Lead Instructor

2021

GIS for Community Health Workshop

Served as one of two primary instructors for a community engagement partnership with the Esparanza community and UCLA's Center for Diverse Leadership in Science. The instruction gave participants an introductory knowledge on how to use GIS, how to acquire spatial data, and spatial data analysis. Duties included development of the entire workshop, leading lectures, communicating with community leaders, holding office hours, developing tutorials, and providing individual feedback for participants.

Private tutor

2015-Present

Fiat Lux

I have over 8,000 hours of experience as a private math and science tutor. I serve primarily high school and college students in the Los Angeles area in person as well as remotely tutoring students. I have experience in all age ranges, and specialize in calculus, chemistry, and test prep.

SELECTED PUBLICATIONS AND PRESENTATIONS

- P. Hoel, A. Freedston-Herman, and B. Halpern. 2022. Modeling threat of runoff to coastal ocean environments, *Frontiers in Marine Science*.
- Climate Change for Cool Kids, monthly newsletter and digital lecture series.
Online at: <http://paigehoel.com/scientist-paige/>
- P. Hoel, D. Bianchi, C. Anderson, R.M. Kudela, F. Kessouri, M. Sulta, C. Deutsch, J. Smith, and A. Moreno. Integrated Modeling of Harmful Algal Genus Pseudo- Nitzschia to Support Ecosystem Prediction and Environmental Management in the Southern California Current System. Poster presentation, AGU Ocean Sciences, San Diego, CA, February 16, 2020
- Boehnert, J., G. Dobson, and P. Hoel. 2020. GIS Tutorial for Atmospheric Sciences. UCAR and UNC-Asheville, Online at: <https://gis.ucar.edu/>
- O'Lenick, C.R., A. Baniassadi, R. Michael, A. Monaghan, J. Boehnert, X. Yu, M.H. Hayden, C. Wiedinmyer, K. Zhang, P.J. Crank, J. Heusinger, P. Hoel, D.J. Sailor, and O.V. Wilhelmi. 2020. A case-crossover analysis of indoor heat exposure on mortality and hospitalizations among the elderly in Houston, Texas, *Environmental Health Perspectives*
- P. Hoel. What risks do coastal oceans face? Storymap presentation, ESRI User Conference, San Diego, CA, July 6, 2019
- P. Hoel. Risk of change to Coastal Ecosystems: adapting a runoff analysis framework to GIS, Association of American Geographers Annual Meeting, Washington DC, April 4, 2019.
- Wilhelmi, O., A. Sarzynski, W. Goszczyński, M. Wróblewski, I. Nichersu, D. Balaican, M. Tye, P. Hoel, P. Laborgne, J. Wendel, 2019. Building Capacity for Integrated Governance at the Food-Water-Energy Nexus, Association of American Geographers Annual Meeting, Washington DC, April 4, 2019.

AWARDS AND HONORS

2021	Morris Neiburger Award, UCLA
2020 - 2022	Early Career Fellow, Center for Diverse Leadership in Science, UCLA
2020	Morris Neiburger Award, honorable mention, UCLA
2019	Best Spatial Analysis Storymap, ESRI User Conference
2018	Graduation with high honors distinction, UCSB

SELECTED LEADERSHIP AND SERVICE

EDGE Youth Leadership

2022-present

Emcee and Program Team

UCLA Chi Epsilon Pi (XEP)
President, Recruitment chair, Social Media chair

2020-2022

UCLA Atmospheric and Oceanic Science Department
Student Representative, Admissions Committee

2021-Present

UCLA Environmental Justice Working Group
Member

2020-2022

EDGE Youth Leadership
Mentor and Team Lead

2018-2021

PROFESSIONAL REFERENCES

Daniele Bianchi- Assistant Professor, UCLA Atmospheric and Oceanic Science Department

CONTACT: dbianchi@atmos.ucla.edu (Academic)

Nick Nidzieko- Assistant Professor, UCSB Geography Department

CONTACT: nnidzieko@ucsb.edu (Academic)

Olga Wilhelmi- Project Scientist, National Center for Atmospheric Research

CONTACT: olgaw@ucar.edu (Character)

Allison Moreno- Post-Doc Researcher, UCLA Atmospheric and Oceanic Science Department

CONTACT: allimoreno@atmos.ucla.edu (Character)

CONTACT INFORMATION

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