

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 California Current system

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

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

Undergraduate Teaching Assistant

2018

UCSB Earth Science Department

I aided in teaching two sections for Earth 4- Oceanography, a large general education course.

Private tutor

2015-Present

Fiat Lux

I have over 6,000 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, pre-calculus, and test prep.

COVID Climate Change for Cool Kids

2020

Creator, Host

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, aimed at informing the same non-scientific audience of exciting developments in the world of climate science.

SELECTED PUBLICATIONS AND PRESENTATIONS

2020

- 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
- P. Hoel, A. Freedston-Herman, and B. Halpern. Modeling threat of runoff to coastal ocean environments, *Coastal Estuarine and Shelf Science*, in review.
- 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*
- COVID Climate Change for Cool Kids, Digital lecture series presentation. Online at: <https://paigehoel.com/covid/>

2019

- 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. Balaić, 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.

2018

- P. Hoel. Modeling Risk of Coastal Runoff. Presentation, ESRI Ocean GIS Forum, Redlands, CA, November 2, 2018
- I made a map!. Demonstration and workshop, NCAR Super Science Saturday, Boulder, CO, November 12, 2018

2017

- P. Hoel. Economic risk of SLR in Santa Barbara. Poster presentation, UCSB Spatial Science Symposium, Santa Barbara, CA, May 29, 2017
- P. Hoel. A Runoff Risk Framework in GIS. Lighting Talk, UCSB Spatial Science Department, Santa Barbara, CA, November 15, 2017

AWARDS AND HONORS

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

LEADERSHIP AND SERVICE

Chi Epsilon Pi (XEP) at UCLA <i>President</i>	2020-Present
Environmental Justice Working Group at UCLA <i>Member</i>	2020-present
EDGE Youth Leadership <i>Mentor and Team Lead</i>	2018-Present
Greenshots film Program <i>Mentor</i>	2019-Present
Alpha Delta Pi <i>Sustainability Chair, Gamma Xi chapter</i>	2018

COMPUTER SKILLS

<i>Software Applications</i>	ARCGIS PRO, ARCGIS ONLINE
<i>Operating Systems</i>	Windows, Linux
<i>Languages and Tools</i>	Proficient in MATLAB, PYTHON, L ^A T _E X

CONTACT INFORMATION

<i>Phone</i>	(909) 816-6532
<i>Email</i>	paigehoel@atmos.ucla.edu
<i>Website</i>	paigehoel.com

PROFESSIONAL REFERENCES

Nick Nidzieko- Assistant Professor, UCSB Geography Department

CONTACT: nnidzieko@ucsb.edu

Olga Wilhelmi- Project Scientist, National Center for Atmospheric Research

CONTACT: olgaw@ucar.edu

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

CONTACT: dbianchi@atmos.ucla.edu