



Wyn Pauly

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Objective

Goal : PhD research position in oceanography and climate.

Specific Interests : Physical oceanography, the ocean's role in climate variability, and predictability.

Education

Bachelor of Arts in Atmospheric and Oceanic Sciences, [2024] CU Boulder (GPA : 4.0)

Bachelor of Environmental Design, Emphasis on Urban Planning, [2024] CU Boulder (GPA: 3.8)

Overall GPA: 3.86/4.0

Honors and Awards

Arts and Sciences Honors College, Phi Beta Kappa Member, Dean's list (8 semesters), Summa Cum Laude Honors Designation, Graduated with High Distinction

Course Work and Experience

CU in DC Science Policy : 3 week study abroad in DC, gained exposure to the federal government's role in science policy and funding

Chaos & Predictability : Project on the predictability of ENSO regimes (DPLR dataset)

Scientific Programming, Data Analysis and Visualization Laboratory : Interactive visualization of ECCO data

Course-Based ATOC Research Experience : *Arctic Sea ice Extent Trend Prediction*

Accuracy can be increased by Ensemble Member Selection, Best sea ice session poster award at the 17th Annual Earth System and Space Science Poster Conference

Coastal Oceanography : Understanding coastal processes, nutrient cycles, anthropogenic changes, and the basics of coastal numerical models.

Numerical Methods Laboratory : Convert physical descriptions of the earth system into numerical models, simplify complex systems, discretize and code derived equations.

Honors Thesis : The Relationship Between US East Coast Sea Level and Large Scale North Atlantic Circulation (available at <https://wynpauly.com/portfolio/>)

Skills

Python programming (Xarray and NetCDF, Matplotlib, Numpy, Scipy, Pandas, etc.)
Working with Geophysical Models (CESM, ECCO, ERA5, MIROC6, etc.)
Data Analysis (EOF & SVD Analysis, Linear Regression, etc.)
Unix environment (Interacting with CESM on Cheyenne)
GIS software (spatial analysis and mapping)
3D modeling software (AutoCAD, Rhino and Sketchup)
Adobe Creative Suite (Photoshop, Illustrator, InDesign)
Fabrication (Laser Cutting & 3D Printing)
PADI Certified Open Water Scuba Instructor, Emergency First Response (EFR) Instructor
Underwater Photography (Examples available at : <https://wynpauly.com/interests/>)
Intermediate Chinese, Introductory Japanese

References

Kris Karnauskas

Associate Professor at CU Boulder

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Chris Little

Senior Staff Scientist at Atmospheric and Environmental Research (AER)

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