



# Wyn Pauly

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Email : [rwpauly@me.com](mailto:rwpauly@me.com)

Phone : (650)739-6809

## 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 (DPLE 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://wynpaully.com/interests/>)

**Intermediate Chinese, Introductory Japanese**

## **References**

**Kris Karnauskas**

Associate Professor at CU Boulder

[kristopher.karnauskas@colorado.edu](mailto:kristopher.karnauskas@colorado.edu)

**Chris Little**

Senior Staff Scientist at Atmospheric and Environmental Research (AER)

[clittle@aer.com](mailto:clittle@aer.com)

