

SAMUEL MOGEN

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Institute of Arctic and Alpine Research, University of Colorado

Campus Box 450 ◇ Boulder, CO 80309

EDUCATION

University of Colorado Boulder

Ph.D. Student in Atmospheric & Oceanic Sciences

M.S. in Atmospheric & Oceanic Sciences

GPA: 3.94

Boulder, CO

Expected 2025

2022

University of Virginia

B.S. in Environmental Science

GPA: 3.89

with Highest Distinction

Charlottesville, VA

2020

WORK EXPERIENCE

University of Colorado Boulder

Graduate Research Assistant, Institute of Arctic and Alpine Research

Boulder, CO

2021 - present

University of Virginia

Undergraduate Research Assistant, Computational Biogeochemistry Lab

Charlottesville, VA

2019-2020

UVA Nitrogen Working Group

Co-Chair and Undergraduate Researcher

Charlottesville, VA

2017-2020

NOAA Pacific Marine Environmental Lab

NOAA Hollings Scholar, Physical Sciences Division

Seattle, WA

Summer 2019

Radford University Arctic Geophysics

Research Assistant

Radford, VA

2016

PUBLICATIONS

Peer-Reviewed:

1. **Mogen, S**, Lovenduski, NS, Dallman, A, Gregor, L, Sutton, A, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Ocean biogeochemical signatures of the North Pacific Blob." *Geophysical Research Letters*. 2022.
2. Yeager, Stephen G., Rosenbloom, N., Glanville, A., Wu, X, Simpson, I., Li, H., Molina, M., Krumhardt, K., **Mogen, S.**, Lindsay, K., Lombardozzi, D., Wieder W., Kim, W., Richter, J., Long, M., Danabasoglu, G., Bailey, D., Holland, M., Lovenduski, N., Strand, W., King, T. "The Seasonal-to-Multiyear Large Ensemble (SMYLE) Prediction System Using the Community Earth System Model Version 2." *Geoscientific Model Development*. 2022.
3. **Mogen, S**, Lovenduski, NS, Yeager, S, Keppler, L, Sharp, J, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Skillful multi-month predictions of ecosystem stressors in the surface and subsurface ocean." *Earth's Future*. In review.

HONORS AND AWARDS

National

Ernest F. Hollings Scholar, NOAA	<i>2018</i>
NSF Graduate Research Fellowship, Honorable Mention	<i>2021</i>
US GO-SHIP Awardee, A13.5 GO-SHIP cruise	<i>2021</i>
5th International Symposium on the Ocean in a High CO2 World, Travel Funding from OCB	

Institutional

Wallace-Poole Prize, Univ. of Virginia	<i>2020</i>
“awarded to the top graduating student in the Department each year”	
Echols Scholar, University of Virginia	<i>2016-2020</i>
College Science Scholar, University of Virginia	<i>2016-2020</i>
ATOC Departmental Service Award	<i>2020-2021</i>
”For presenting informative, interactive, and valuable ATOC bias seminars in spring 2021.”	
ATOC TA Award	<i>Fall 2020</i>
2021 Earth and Space Science Poster Session, First in Oceanography	

SKILLS & INTERESTS

Computer Languages	python, MATLAB, R, shell scripting (familiar)
Data & Databases	NetCDF
Design	L ^A T _E X
Foreign Language	English, Spanish (Conversational), German (Basics)

GRADUATE COURSEWORK

Biogeochemical Oceanography	Atmospheric Thermodynamics
Intro to Physical Oceanography	Intro to Atmospheric Radiation
Dynamics of the Atmosphere and Oceans	
Global Carbon Cycle	
Advanced Ocean Dynamics	
Objective Data Analysis	

Add SOLAS/ASP Colloquia/ ArgoVIS workshop/etc/GO SHIP?

SERVICE & OUTREACH

Justice, Equity, Diversity and Inclusion Committee, ATOC	
Mentored applicants to the Graduate Program	<i>2020-Present</i>
Co-Lead, Department Microaggression and Bias Seminars	<i>2021-Present</i>
Organizer, Research Experience for Undergraduates (REU)	<i>2021-Present</i>
Co-Lead and Organizer, ATOC REU Python Bootcamp	<i>2021</i>
Justice, Equity, Diversity and Inclusion Committee, INSTAAR	
Co-Lead, Committee for an Inclusive Graduate Student Body	

TEACHING

University of Colorado Boulder	
Teaching Assistant, <i>ATOC 3070: Introduction to Oceanography</i>	<i>Fall 2020</i>
Teaching Assistant, <i>ATOC 1060: Our Changing Environment</i>	<i>Spring 2021</i>

SELECTED PRESENTATIONS

Conference Talks:

6. Mogen, S, Pilcher, D, Cross, JN. "Outlook on Changes in Bering Sea Oxygen Cycling." Hollings Scholar Symposium: Silver Spring, MD. August, 2019.
5. Mogen, S, Lovenduski NS, Dallman, A, Gregor, L, Sutton, A, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Ocean biogeochemical signatures of the North Pacific Blob." Eastern Pacific Ocean Conference: Fallen Leaf Lake, CA. September, 2021.
4. Mogen, S, Lovenduski NS, Dallman, A, Gregor, L, Sutton, A, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Ocean biogeochemical signatures of the North Pacific Blob." Graduate Climate Conference: Virtual. October, 2021.
3. Mogen, S, Lovenduski NS, Dallman, A, Gregor, L, Sutton, A, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Ocean biogeochemical signatures of the North Pacific Blob." WCRP Workshop on Extremes in Climate Prediction Ensembles (ExCPEns): Virtual. October, 2021.

2. Mogen, S, Lovenduski NS, Dallman, A, Gregor, L, Sutton, A, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Ocean biogeochemical signatures of the North Pacific Blob." Ocean Sciences Meeting: Virtual. February, 2022.
1. Mogen, S, Lovenduski NS, Keppler, L., Sharp, J., Sutton, A, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Near-term predictions of (sub)surface marine stressors." 5th International Symposium on the Ocean in a High CO2 World. September, 2022.

Conference Posters:

2. Mogen, S, Doney, S, Pilcher, D, Cross, JN. "Outlook on Changes in Bering Sea Oxygen Cycling." Ocean Sciences Meeting: San Diego, CA. February 2020.
1. Mogen, S, Lovenduski NS, Dallman, A, Gregor, L, Sutton, A, Bograd, S, Hazen, E, Pozo Buil, M, Jacox, M, Di Lorenzo, E, Cordero Quiros, N. "Ocean biogeochemical signatures of the North Pacific Blob." Earth System Space Science (ESSS) Poster Session: Boulder, CO. December, 2021.

Workshops:

1. National Center for Atmospheric Research (NCAR) Advanced Study Program (ASP) Colloquium 2021. "The Science of Subseasonal to Seasonal (S2S) Predictions". July, 2021.