

Hassan Mason

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Education

New York University, Courant Institute of Mathematical Sciences

2020 – Present

PhD Candidate - Atmosphere Ocean Science and Mathematics

University of North Carolina — Wilmington

2017 – 2020

BA Mathematics

BS Physics

Publications

2. **Mason, H.** & Smith K.S. (2025). Beaufort Gyre isopycnal structure generates significant halocline eddy transport. Submitted to *Journal of Geophysical Research: Oceans*. 10.22541/essoar.173724500.00548969/v1
1. Wagner T.J.W., Eisenman I., & **Mason H.** (2021). How sea ice motion influences sea ice extent. *Geophysical Research Letters*. 10.1029/2021GL093069

Presentations

5. Beaufort Gyre Isopycnal Structure Generates Significant Halocline Eddy Transport under Sea Ice
Oral - AGU Annual Meeting 2024
4. An Exploration of Submesoscale Eddies and Sea Ice Interactions and their Implications
Poster - AGU Fall Meeting 2022
3. How Do Mesoscale Eddies Influence Vertical Heat Transport in the Arctic Ocean?
Poster - AMS Collective Madison Meeting 2022
2. How do Mesoscale Eddy - Sea Ice Interactions Influence Heat Transport?
Poster - GRC Ocean Mixing 2022
1. How Sea Ice Motion Changes Can Drive Antarctic Sea Ice Expansion in an Idealized Global Model
Poster - AGU Fall Meeting 2019

Teaching Activities

4. NYU Undergraduate Linear Algebra
TA & Recitation Leader
Spring 2025
3. NYU Undergraduate Calculus I
TA & Recitation Leader
Fall 2024
2. NYU Undergraduate Math Modeling
TA & Recitation Leader
Fall 2023
1. NYU Undergraduate Math Modeling
TA & Recitation Leader
Spring 2023

Technical Skills

Programming Languages: Python, Fortran, MATLAB, C++

Modeling: MITgcm, finite difference/volume/element methods

Other tools: MPI/OpenMP, git