## **BIOGRAPHICAL SKETCH: ABIGAIL BODNER**

DUUAI.		
PhD	Earth, Environmental and Planetary Sciences, Brown University	2021
$\mathbf{ScM}$	Applied Mathematics, Brown University	2020
MSc	Atmospheric Sciences, Tel Aviv University	2019
BSc	Tel Aviv University, Double Major: Mathematics & Geophysics	2014
APPOINT	TMENTS	
Assista	nt Professor Earth, Atmospheric & Planetary Sciences, MIT	Janurary 2024-
Visiting	g Scientist Earth, Atmospheric & Planetary Sciences, MIT	August-December 2023
Postdo	ctoral Fellow Center for Atmosphere Ocean Science, Courant Institute, NYU	J 2021-Present
HONORS	AND EXPERIENCE	
NASA	Transform to Open Science Training Award, Co-Investigator	2023-2025
Multise	cale Machine Learning In Coupled Earth System Modeling, Affiliate	2022-Present
Simons	Society Junior Fellow Posdoctoral Award	AY 2021-2024
<b>Kavli I</b> Graduat	nstitute for Theoretical Physics University of California Santa Barbara e Fellow, Spring 2018   Research Fellow, Fall 2021	
<b>Fundan</b> Ecole de	nental Aspects of Turbulent Flows in Climate Dynamics Physique des Houches, Les Houches, France.	Summer 2017
Gradua CESM (	te awards Graduate Student Award 2022   PODS XI 2021   Presentation Award AOFD	2019   Sigma Xi 2019

CESM Graduate Student Award 2022 | PODS XI 2021 | Presentation Award, AOFD 2019 | Sigma Xi 2019 | GoMRI Scholar 2018 | Brown Departmental Fellowship 2016 | TAU MSc Student Excellence Award 2015 |

## SERVICE

FDUCATION

Climatematch Academy Executive Director and Co-Founder

2021-Present

**Reviewer** Journal of Physical Oceanography | Advances in Atmospheric Sciences | Geophysical Research Letters Journal of Turbulence | Journal of Advances in Modeling Earth System | Intergovernmental Panel on Climate Change, Sixth Assessment Report | Special Report on the Ocean and Cryosphere in a Changing Climate

Student Reviewer | Session Convener AGU 2022, 2023, OSM 2022, 2024

## SELECTED PUBLICATIONS

Bodner, A.S., Balwada, D., & Zanna, L. A Data-Driven Approach for Parameterizing Submesoscale Vertical Buoyancy Fluxes in the Ocean Mixed Layer. *In preparation.* 

Bodner, A.S., Fox-Kemper, B., Johnson, L., Van Roekel, L.P., McWilliams, J.C., Sullivan, P.P., Hall, P.S., & J.Dong (2022). Modifying the Mixed Layer Eddy Parameterization to Include Frontogenesis Arrest by Boundary Layer Turbulence. *Journal of Physical Oceanography*.

Bodner, A.S. & Fox-Kemper, B. (2020). A Breakdown in Potential Vorticity Estimation Delineates the Submesoscale-to-Turbulence Boundary in Large Eddy Simulations. *Journal of Advances in Modeling Earth Systems*, e2020MS002049.

Bodner, A.S., Fox-Kemper, B., Van Roekel, L.P., McWilliams, J.C. & Sullivan, P.P. (2019). A Perturbation Approach to Understanding the Effects of Turbulence on Frontogenesis. *Journal of Fluid Mechanics*, 883.