

# Yueyang Lu

77 Massachusetts Avenue, Cambridge, MA 02139, USA  
ylu06@mit.edu • <https://yueyanglu.github.io/>

PROFESSIONAL APPOINTMENT	<b>Postdoctoral Associate</b> Mar 2026 - present <ul style="list-style-type: none"><li>Department of Earth, Atmospheric &amp; Planetary Sciences, Massachusetts Institute of Technology</li></ul>
	<b>Postdoctoral Research Associate</b> Jul 2024 - Mar 2026 <ul style="list-style-type: none"><li>Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University</li></ul>
	<b>Research Associate</b> Jun 2024 <ul style="list-style-type: none"><li>Rosenstiel School, University of Miami</li></ul>
EDUCATION	<b>Ph.D. Meteorology &amp; Physical Oceanography</b> Aug 2018 – May 2024 <ul style="list-style-type: none"><li>University of Miami Florida, USA</li><li>Advisor: Prof. Igor Kamenkovich</li></ul>
	<b>B.S. Marine Science</b> Aug 2014 – Jun 2018 <ul style="list-style-type: none"><li>Ocean University of China Qingdao, China</li></ul>
PUBLICATIONS	<b>PEER-REVIEWED</b> <ul style="list-style-type: none"><li>[4] <b>Y. Lu</b>, I. Kamenkovich, &amp; P. Berloff. Can Eulerian Eddy Diffusivity be Inferred from Lagrangian Trajectories?, e2025MS005428. doi: 10.1029/2025MS005428. [PDF]</li><li>[3] <b>Lu, Y.</b> &amp; I. Kamenkovich (2025). Mesoscale Eddy-Induced Sharpening of Oceanic Tracer Fronts. <i>J. Adv. Model. Earth Syst.</i> 17, e2024MS004693. doi: 10.1029/2024MS004693. [PDF]</li><li>[2] <b>Lu, Y.</b>, I. Kamenkovich, &amp; P. Berloff (2022). Properties of the lateral mesoscale eddy-induced transport in a high-resolution ocean model: Beyond the flux-gradient relation. <i>J. Phys. Oceanogr.</i>, 52(12). doi: 10.1175/JPO-D-22-0108.1. [PDF]</li><li>[1] Kamenkovich, I., P. Berloff, M. Haigh, L. Sun, &amp; <b>Y. Lu</b> (2021). Complexity of mesoscale eddy diffusivity in the ocean. <i>Geophys. Res. Lett.</i>, 48(5). doi: 10.1029/2020GL091719.</li></ul>
	<b>IN PREPARATION</b> <ul style="list-style-type: none"><li>[2] <b>Y. Lu</b>, X. Xu, &amp; E. Chassignet. What drives the temperature variability in the Gulf of Maine?</li><li>[1] <b>Y. Lu</b>, X. Xu, &amp; E. Chassignet. Sea Level Variability over the Northwest European Shelf across Different Timescales [preprint]</li></ul>
MEETINGS & WORKSHOPS	<ul style="list-style-type: none"><li>“Sea Level Variability over the Northwest European Shelf on Different Timescales” <i>Ocean Sciences Meeting</i>, Glasgow, Scotland, Feb 2026 <b>Oral</b></li><li>“Can Eulerian Eddy Diffusivity be Inferred from Lagrangian Trajectories?” <i>Ocean Sciences Meeting</i>, Glasgow, Scotland, Feb 2026 <b>Oral</b></li><li><i>ECCO (Estimating the Circulation and Climate of the Ocean) summer school 2025</i> Pacific Grove, CA, May 19-30 2025</li><li>“Role of Mesoscale Eddies in the Large-Scale Oceanic Tracer Front: Importance and Parameterization” <i>Ocean Sciences Meeting</i>, New Orleans, LA, Feb 2024 <b>eLightning</b></li><li>“Mesoscale eddy-induced sharpening of oceanic tracer fronts and its parameterization” <i>CESM Ocean Model Working Group Meeting</i>, Feb 2024 <b>Oral</b></li><li>“Modeling the Ocean Mesoscale Eddy Effects on Tracer Transport” <i>AGU Fall Meeting</i>, Chicago, IL, Dec 2022 <b>Poster</b></li><li>“Lateral Mesoscale Eddy-Induced Transport and the Flux-Gradient Relation in a High-Resolution Model” <i>Ocean Sciences Meeting</i>, Virtual, Mar 2022 <b>Oral</b></li></ul>
TEACHING	<ul style="list-style-type: none"><li><b>Guest Instructor</b>, <i>Dynamical Oceanography</i> (graduate, taught by Erik van Sebille), Utrecht University Spring 2023</li></ul>

	<ul style="list-style-type: none"> <li>▪ <b>Teaching Assistant</b>, <i>Environmental Statistics</i> (undergraduate), University of Miami</li> <li>▪ <b>Teaching Assistant</b>, <i>Environmental Statistics</i> (undergraduate), University of Miami</li> </ul>	<p>Fall 2021</p> <p>Fall 2020</p>
<b>MENTORING &amp; OUTREACH</b>	<p>Undergraduate Research Opportunity Program at Florida State University</p> <ul style="list-style-type: none"> <li>▪ Mentee: Anna Chumakov - "Investigating U.S. East Coast Sea Level Change"</li> </ul> <p>Qingdao International Ocean Science &amp; Technology Exhibition, Qingdao, China</p> <ul style="list-style-type: none"> <li>▪ Volunteer, Logistics <ul style="list-style-type: none"> <li>• Direct the storage, transportation and exhibition of oceanographic research instruments.</li> </ul> </li> </ul>	<p>2024 – 2025</p> <p>Jul 2016</p>
<b>AWARDS</b>	<ul style="list-style-type: none"> <li>▪ Honorable Mention (Second Prize) in the MCM/ICM Contest</li> <li>▪ First Prize in the Chinese Mathematical Competition (Non-Math Majors)</li> <li>▪ First Tier Academic Scholarship, Ocean University of China</li> </ul>	<p>2017</p> <p>2016</p> <p>2015, 2016</p>
<b>PROFESSIONAL SERVICES &amp; LEADERSHIP</b>	<p><b>Journal Peer Reviewer</b></p> <ul style="list-style-type: none"> <li>▪ <i>Journal of Geophysical Research: Oceans</i>, <i>Journal of Geophysical Research: Biogeosciences</i>, <i>Journal of Advances in Modeling Earth Systems</i>, <i>Ocean Modelling</i></li> </ul>	
<b>OTHERS</b>	<p>Skills: Fortran, MATLAB, Python, Unix Shell Scripting, <math>\LaTeX</math>.</p>	