

# Yueyang Lu

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PROFESSIONAL APPOINTMENT	<b>Postdoctoral Research Associate</b>	Jul 2024 - present
	▪ Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University	
	<b>Research Associate</b>	Jun 2024
	▪ Rosenstiel School, University of Miami	
EDUCATION	<b>Ph.D. Meteorology &amp; Physical Oceanography</b>	Aug 2018 – May 2024
	▪ University of Miami ▪ Advisor: Prof. Igor Kamenkovich	Florida, USA
	<b>B.S. Marine Science</b>	Aug 2014 – Jun 2018
	▪ Ocean University of China	Qingdao, China
PUBLICATIONS	<b>PEER-REVIEWED</b>	
	[3] <b>Lu, Y.</b> & 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]	
	[2] <b>Lu, Y.</b> , I. Kamenkovich, & 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]	
	[1] Kamenkovich, I., P. Berloff, M. Haigh, L. Sun, & <b>Y. Lu</b> (2021). Complexity of mesoscale eddy diffusivity in the ocean. <i>Geophys. Res. Lett.</i> , 48(5). doi: 10.1029/2020GL091719.	
	<b>IN PREPARATION</b>	
	[1] <b>Y. Lu</b> & I. Kamenkovich. Lagrangian Simulation of Eulerian Eddy Tracer Mixing.	
	[2] <b>Y. Lu</b> , et al. Sea Level Variability over the Northwest European Shelf.	
MEETINGS & WORKSHOPS	▪ <i>ECCO (Estimating the Circulation and Climate of the Ocean) summer school 2025</i> Pacific Grove, CA, May 19-30 2025	
	▪ “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>
	▪ “Mesoscale eddy-induced sharpening of oceanic tracer fronts and its parameterization” <i>CESM Ocean Model Working Group Meeting</i> , Feb 2024	<b>Talk</b>
	▪ “Modeling the Ocean Mesoscale Eddy Effects on Tracer Transport” <i>AGU Fall Meeting</i> , Chicago, IL, Dec 2022	<b>Poster</b>
	▪ “Lateral Mesoscale Eddy-Induced Transport and the Flux-Gradient Relation in a High-Resolution Model” <i>Ocean Sciences Meeting</i> , Virtual, Mar 2022	<b>Talk</b>
TEACHING	▪ <b>Guest Instructor</b> , <i>Dynamical Oceanography</i> (graduate, taught by Erik van Sebille), Utrecht University Spring 2023	
	▪ <b>Teaching Assistant</b> , <i>Environmental Statistics</i> (undergraduate), University of Miami	Fall 2021
	▪ <b>Teaching Assistant</b> , <i>Environmental Statistics</i> (undergraduate), University of Miami	Fall 2020
MENTORING & OUTREACH	Undergraduate Research Opportunity Program at Florida State University	2024 – 2025
	▪ Mentee: Anna Chumakov - “Investigating U.S. East Coast Sea Level Change”	
	Qingdao International Ocean Science & Technology Exhibition, Qingdao, China	Jul 2016
	▪ Volunteer, Logistics • Direct the storage, transportation and exhibition of oceanographic research instruments.	

<b>AWARDS</b>	▪ Honorable Mention (Second Prize) in the MCM/ICM Contest	2017
	▪ First Prize in the Chinese Mathematical Competition (Non-Math Majors)	2016
	▪ First Tier Academic Scholarship, Ocean University of China	2015, 2016
<b>PROFESSIONAL SERVICES &amp; LEADERSHIP</b>	<b>Journal Peer Reviewer</b>	
	▪ <i>Journal of Geophysical Research: Oceans, Journal of Geophysical Research: Biogeosciences, Journal of Advances in Modeling Earth Systems, Ocean Modelling</i>	
<b>OTHERS</b>	Skills: Fortran, MATLAB, Unix Shell Scripting, L <sup>A</sup> T <sub>E</sub> X, Python.	