

# Yueyang Lu

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<b>EDUCATION</b>	<b>Ph.D. Meteorology &amp; Physical Oceanography</b> <ul style="list-style-type: none"><li>University of Miami</li><li>Adviser: Prof. Igor Kamenkovich</li></ul> <b>B.S. Marine Science</b> <ul style="list-style-type: none"><li>Ocean University of China</li></ul>	Jun 2019 – May 2024 Florida, USA Aug 2014 – Jun 2018 Qingdao, China
<b>PUBLICATIONS</b>	<b>PEER-REVIEWED</b> <ul style="list-style-type: none"><li>[2] <b>Y. Lu</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> &amp; I. Kamenkovich. Lagrangian Simulation of Eulerian Eddy Tracer Mixing.</li><li>[1] <b>Y. Lu</b> &amp; I. Kamenkovich. Mesoscale Eddy-Induced Sharpening of Oceanic Tracer Fronts and its Parameterization. [preprint]</li></ul>	
<b>RESEARCH EXPERIENCE</b>	<b>Graduate Research Assistant</b> <ul style="list-style-type: none"><li>Rosenstiel School, University of Miami</li><li>Explored the effects of mesoscale eddies on tracers: advective and diffusive properties, and representations</li><li>Investigated the role of mesoscale eddies on ocean fronts: importance, mechanism and parameterizations</li></ul> <b>Undergraduate Research Assistant</b> <ul style="list-style-type: none"><li>Ocean University of China</li><li>Built a statistical model of predicting the east Asia precipitation based on the tropical Pacific precipitation and SST modes.</li></ul>	2019 – present 2017 – 2018
<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>	2017 2016 2015, 2016
<b>PRESENTATIONS</b>	<ul style="list-style-type: none"><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>Talk</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>Talk</b></li></ul>	
<b>TEACHING</b>	<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><li><b>Teaching Assistant</b>, <i>Environmental Statistics</i> (undergraduate), University of Miami Fall 2021</li><li><b>Teaching Assistant</b>, <i>Environmental Statistics</i> (undergraduate), University of Miami Fall 2020</li></ul>	
<b>SERVICE &amp; OUTREACH</b>	<b>Qingdao International Ocean Science &amp; Technology Exhibition</b> , Qingdao, China	Jul – Aug 2016

- Volunteer, Logistics Department
  - Direct the storage, transportation and exhibition of oceanographic instruments.

**OTHERS**

Skills: Fortran, MATLAB, Unix Shell Scripting, L<sup>A</sup>T<sub>E</sub>X, Python (rudimentary).