

Yueyang Lu

Research Foundation Building A, 2000 Levy Ave Suite 292, Tallahassee, FL 32310, USA
yl24q@fsu.edu • <https://yueyanglu.github.io/>

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| PROFESSIONAL APPOINTMENT | Postdoctoral Research Associate | Jul 2024 - present |
| | ▪ Center for Ocean-Atmospheric Prediction Studies (COAPS), Florida State University | |
| | Research Associate | Jun 2024 |
| | ▪ Rosenstiel School, University of Miami | |
| EDUCATION | Ph.D. Meteorology & Physical Oceanography | Aug 2018 – May 2024 |
| | ▪ University of Miami ▪ Advisor: Prof. Igor Kamenkovich | Florida, USA |
| | B.S. Marine Science | Aug 2014 – Jun 2018 |
| | ▪ Ocean University of China | Qingdao, China |
| PUBLICATIONS | PEER-REVIEWED | |
| | [3] Lu, Y. & 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] Lu, Y. , 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, & Y. Lu (2021). Complexity of mesoscale eddy diffusivity in the ocean. <i>Geophys. Res. Lett.</i> , 48(5). doi: 10.1029/2020GL091719. | |
| | IN PREPARATION | |
| | [1] Y. Lu , I. Kamenkovich, & P. Berloff. Can Eulerian Eddy Diffusivity be Inferred from Lagrangian Trajectories? [preprint] | |
| | [2] Y. Lu , 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 | eLightning |
| | ▪ “Mesoscale eddy-induced sharpening of oceanic tracer fronts and its parameterization” <i>CESM Ocean Model Working Group Meeting</i> , Feb 2024 | Talk |
| | ▪ “Modeling the Ocean Mesoscale Eddy Effects on Tracer Transport” <i>AGU Fall Meeting</i> , Chicago, IL, Dec 2022 | Poster |
| | ▪ “Lateral Mesoscale Eddy-Induced Transport and the Flux-Gradient Relation in a High-Resolution Model” <i>Ocean Sciences Meeting</i> , Virtual, Mar 2022 | Talk |
| TEACHING | ▪ Guest Instructor , <i>Dynamical Oceanography</i> (graduate, taught by Erik van Sebille), Utrecht University Spring 2023 | |
| | ▪ Teaching Assistant , <i>Environmental Statistics</i> (undergraduate), University of Miami | Fall 2021 |
| | ▪ Teaching Assistant , <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. | |

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| AWARDS | ▪ 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 |
| PROFESSIONAL SERVICES & LEADERSHIP | Journal Peer Reviewer | |
| | ▪ <i>Journal of Geophysical Research: Oceans, Journal of Geophysical Research: Biogeosciences, Journal of Advances in Modeling Earth Systems, Ocean Modelling</i> | |
| OTHERS | Skills: Fortran, MATLAB, Python, Unix Shell Scripting, L ^A T _E X. | |