# DYLAN SCHLICHTING

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## EDUCATION

Ph.D. Oceanography, Texas A&M University — Jan 2020 - Dec 2024 (Expected)
*Adviser*: Drs. Robert Hetland & Henry Potter

B.S. Civil Engineering, University of Maine — Aug 2016 - Dec 2019
*Minor*: Mathematics

Relevant Coursework: Physical Oceanography, Numerical Methods, Ocean-Atmosphere Dynamics, Partial Differential Equations

## RESEARCH EXPERIENCE

**Graduate Research Assistant** — Jan 2020 - Present
*Texas A&M University: Dept. Oceanography*

**Student Research Assistant** — May 2017 - Dec 2019
*UMaine: Dept. Civil Engineering*

**Engineering Research Assistant** — Aug 2018 - May 2019
*UMaine: School of Marine Sciences*

**Research Experience for Undergraduates** — May 2018 - Aug 2018
*Texas A&M University: Dept. Oceanography*

## RESEARCH INTERESTS

Coastal ocean modeling, numerical mixing, submesoscale processes, estuarine physics, ocean mixing

## PUBLICATIONS

Spicer, P., **Schlichting, D.**, Huguenard, K., Roche, A., and Rickard, L. (2021). Sensing Storm Surge: A framework for establishing a citizen scientist monitored water level network. *Ocean and Coastal Management*, 211, 105802. https://doi.org/10.1016/j.ocecoaman.2021.105802.

## PRESENTATIONS AND CONFERENCES

6. **Schlichting, D.**, Hetland, R., Qu, L., and Kobashi, D. (2021). Using tracer variance budgets to quantify numerical mixing offline in a coastal ocean model. Warnemünde Turbulence Days, December 6-9. Talk.
5. **Schlichting, D.**, Lieberthal, B., and Huguenard, K. (2019). An assessment into vegetation farms as a solution to coastal erosion in southern Maine. Northeast Aquaculture Conference, Boston MA. January 9-11. Poster.

4. **Schlichting, D.** and Hetland, R. (2018). Using salinity variance and total exchange flow to ana-lyze salinity structure in an unsteady estuary. Physics of Estuaries and Coastal Seas Conference, Galveston TX. October 14-18. Poster.

3. **Schlichting, D.** and Hetland, R. (2018). Mechanisms controlling salinity structure structure in a broad, shallow, unsteady estuary. Sustainable Ecological Aquaculture Network Undergraduate Research Symposium, Walpole ME. August 7. Poster.

2. **Schlichting, D.** and Hetland, R. (2018). Salinity structure in Copano Bay. Texas A&M University Observing the Ocean REU Student Symposium, College Station, TX. August 2. Talk.

1. **Schlichting, D.**, Lieberthal, B., and Huguenard, K. (2017). Vegetation farms as a solution to coastal erosion for Saco, Maine. Sustainable Ecological Aquaculture Network Undergraduate Research Symposium, Walpole ME. August 16. Poster.

## TEACHING

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| Tutor: Computers in Civil Engineering (CIE 115, UMaine) | Spring 2019 |

## HONORS AND AWARDS

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| NSF S-STEM Scholar | Jan 2020 - Aug 2021 |
| Oceanography Graduate Council mini-grant recipient | Summer 2021 |
| Louis and Elizabeth Scherck Scholarship | 2020, 2021 |
| Frank Sleeper - Sawyer Scholarship | 2017 - 2019 |
| Best capstone project | 2019 |
| Chi Epsilon Member: Civ. Eng. Honors Society | 2019 |
| NSF REU Scholar | May 2018 - Aug 2018 |
| Alpha Tau Omega Memorial Scholarship | 2018 |

## SKILLS

**Computing and Programming**

- Proficient in Python - used for graduate studies and research
- Proficient in Matlab - used for undergraduate studies and research
- Basic experience with FORTRAN and C (see Ocean Modeling)
- Proficient in LaTeX
- Basic experience with Linux administration

**Ocean Modeling**

- ROMS - idealized and realistic simulations of shelf circulation
- Basic experience with SUNTANS

**Civil Engineering**

- Experience with Autocad, Revit, HEC-RAS, and Microsoft Project

## PROFESSIONAL SOCIETIES

Association for the Sciences of Limnology and Oceanography

The Oceanography Society

American Society of Civil Engineers