

Laura Logozzo, PhD
Post-doctoral Fellow, University of Lethbridge
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Education

PhD	Yale University School of the Environment Committee: Peter Raymond (Advisor), Jim Saiers, Tim Eglinton, Ben Twining <i>"Dissolved Organic Matter Dynamics in a Large Temperate River"</i>	2017 – 2022
MS	CUNY City College Earth and Atmospheric Sciences (EAS) Advisor: Maria Tzortziou <i>"Microbial Degradation of Marsh-Exported Carbon"</i>	2015 – 2017
BS	Macaulay Honors College at CUNY City College EAS	2011 – 2015

Research Experience and Collaborations

University of Lethbridge Post-doctoral Fellow Supervisor: Matthew Bogard	2022 –
Apalachicola Bay Sampling Surveys Collaborator Collaborator: Wade McGillis <i>Led DIC, DOC, and greenhouse gas sampling surveys along estuarine salinity gradients</i>	May 2022
Watershed Rules of Life Project Collaborator PI: Peter Raymond Co-PIs: Byron Crump, Colin Gleason <i>Sampled DIC, DOC, microbial DNA/RNA, and greenhouse gas across watersheds, seasonally</i>	2019 –
ETH Zürich Visiting Researcher Supervisors: Tim Eglinton, Peter Raymond <i>Preparation of DOC samples for radiocarbon measurement using wet chemical oxidation</i>	2019
United States Geological Survey (USGS) Volunteer Collaborator: Jon Morrison <i>Maintenance of deployed water quality sondes</i>	2017 – 2019
Smithsonian Environmental Research Center Research Fellow Supervisors: Patrick Neale, Patrick Megonigal, Maria Tzortziou <i>"Microbial Degradation of Marsh-Exported Carbon"</i>	Summer 2016
Smithsonian Environmental Research Center Research Intern Supervisor: Patrick Neale <i>Dissolved organic matter fluxes and fate from a brackish tidal marsh</i>	Summer 2015

University of New Hampshire & Abisko Naturvetenskapliga Station | REU

Summer 2014

Supervisors: Ruth Varner and Joel Johnson

"Linking Sediment Characteristics to Methane Emission Potential in Subarctic Lakes"

Peer-Reviewed Publications

* Denotes undergraduate mentee

In prep/In review

Logozzo, L., Hosen, J., McArthur, J.*, Raymond P.A. In revision. *Distinct drivers of two size fractions of dissolved iron in a temperate river*. Limnology & Oceanography.

Published

Logozzo, L., Martin, J., McArthur, J.*, Raymond, P.A. (2022) *Contributions of Fe(III) to UV-vis absorbance in river water: A case study on the Connecticut River and argument for the systematic tandem measurement of Fe(III) and CDOM*. Biogeochemistry. <https://doi.org/10.1007/s10533-022-00937-5>

Aho, K.S., Fair, J.H., Hosen, J.D., Kyzivat E.D., **Logozzo, L.**, Weber, L.C., Yoon, B., Zarnetske, J., Raymond, P.A. (2022) *An intense precipitation event causes a temperate forested drainage network to shift from N₂O source to sink*. Limnology and Oceanography. <https://doi.org/10.1002/lno.12006>

Aho, K.S., Fair, J.H., Hosen, J.D., Kyzivat, E.D., **Logozzo, L.**, Rocher-Ros, G., Weber, L.C., Yoon, B., Raymond, P.A. (2021) *Distinct concentration-discharge dynamics in temperate streams and rivers: CO₂ exhibits chemostasis while CH₄ exhibits source limitation due to temperature control*. Limnology and Oceanography. <https://doi.org/10.1002/lno.11906>

Maavara, T., **Logozzo L.**, Stubbins, A., Aho, K.S., Brinkerhoff, C., Hosen, J.D., Raymond, P.A. (2021) *Does photomineralization of dissolved organics matter in temperate rivers?*. Journal of Geophysical Research: Biogeosciences. <https://doi.org/10.1029/2021JG006402>

Aho, K.S., Hosen J.D., **Logozzo L.**, McGillis, W.R., Raymond, P.A. (2021) *Highest rates of gross primary productivity maintained despite CO₂ depletion in a temperate river network*. Limnology & Oceanography Letters. <https://doi.org/10.1002/lol2.10195>

Logozzo, L., Tzortziou, M., Neale, P. Clark, B. (2021) *Photochemical and microbial degradation of chromophoric dissolved organic matter exported from tidal marshes*. Journal of Geophysical Research: Biogeosciences. <https://doi.org/10.1029/2020JG005744>

DeVries, S., Loving, M., **Logozzo, L.**, Zhang, P., Block, K. (2020) *The Effects of Trace Narasin on the Biogeochemical N-Cycle in a Cultivated Sandy Loam*. Science of the Total Environment. <https://doi.org/10.1016/j.scitotenv.2020.137031>

Invited Talks

Logozzo, L. (2021) *Dissolved organic carbon and iron dynamics in the Connecticut River*. Invited Talk. YSE First Year Doctoral Seminar. New Haven, CT.

Logozzo, L. (2021) *The mobilization of aged dissolved organic carbon in a large temperate river*. Invited Talk. ETH Zürich, LIP AMS Seminar. Zoom.

Logozzo, L. (2021) *Dissolved organic carbon cycling in rivers and estuaries*. Invited Talk. CUNY City College, Earth and Environmental Sciences Seminar. Zoom.

Conference Presentations (first author only)

- Logozzo L., Martin, J.W., McArthur, J., Raymond, P.A. (2022). *Fe(III) Contributions to UV-vis Absorbance in the Connecticut River Watershed: an Argument for the Tandem Measurement of CDOM and Fe(III)*. Talk. Joint Aquatic Sciences Meeting. Grand Rapids, MI.
- Logozzo L., Raymond P.A. (2021). *The mobilization of aged dissolved organic carbon in the Connecticut River*. Poster. YSE Climate Day. Zoom.
- Logozzo, L., Raymond, P.A. (2020) [*Seasonal variability in dissolved iron and dissolved organic matter in the Connecticut River*](#). Talk. YSE Research Conference. Zoom.
- Logozzo, L., Raymond, P.A. (2019) [*The Coupled Cycling of Dissolved Iron and Dissolved Organic Matter in the Connecticut River*](#). Poster. YSE Research Conference. New Haven, CT. **Best poster award winner.**
- Logozzo, L., Raymond, P.A. (2019) *The Coupled Cycling of Dissolved Iron and Dissolved Organic Matter in the Connecticut River*. Talk. ASLO Aquatic Sciences Meeting. San Juan, Puerto Rico.
- Logozzo, L., Tzortziou, M., Neale, P. (2017) [*Dissolved Organic Matter Fate in Estuaries: Spatial Variations in Bioavailability and Photoreactivity*](#). Poster. ASLO Aquatic Sciences Meeting. Honolulu, HI.
- Logozzo, L., Neale, P., Tzortziou, M., Nelson, N., Megonigal, P. (2016) [*Tidal Marshes as Pulsing Systems: New Estimates of Marsh-Carbon Export and Fate*](#). Talk. AGU Ocean Sciences Meeting. New Orleans, LA.
- Logozzo, L., Kidder, S. (2015) *A model for mapping titanium concentrations in quartz using blue-wavelength cathodoluminescence and c-axis plunge*. Poster. Jeffrey Steiner Memorial Symposium. New York, NY.
- Logozzo, L., Devries, S., Zhang, P. (2015) *The effects of antibiotics on the nitrifying bacteria *Alcaligenes faecalis**. Poster. Jeffrey Steiner Memorial Symposium. New York, NY. **Best poster award winner.**
- Logozzo, L., Perry A., Wik, M., Thornton, B., Crill, P., Johnson, J., Varner, R. (2014) [*Linking Sediment Characteristics to Methane Emission Potential in Subarctic Lakes*](#). Poster. AGU Fall Meeting. San Francisco, CA

Fellowships & Grants

Yale School of the Environment Conference Travel Fund \$500	2022
NASA Connecticut Space Grant Graduate Research Fellowship \$8000 <i>"Illuminating riverine dissolved organic carbon dynamics and export using carbon age"</i>	2019

Yale Graduate Student Assembly Conference Travel Fund \$500-\$750	2019/2022
Yale Institute of Biospheric Studies RFP Grant \$3950	2018
ASLO Aquatic Sciences Meeting Student Travel Fund \$500	2017
Smithsonian Graduate Student Fellowship \$8000 <i>"Microbial degradation of marsh-exported carbon"</i>	2016
NOAA-CREST Graduate Student Fellowship \$36,000	2015 – 2017

Teaching and Mentoring

The Physical Science of Climate Change Teaching Fellow <i>Yale University</i>	Spring 2021
Watershed Cycles and Processes Teaching Fellow <i>Yale University</i>	Fall 2019/2020
Multivariate Statistics for the Environmental Sciences Teaching Fellow <i>Yale University</i>	Spring 2019
New Haven Promise Internship Research mentor/supervisor <i>Yale University</i> Featured in: <i>"New Haven Promise Inspires New 'Champions' for the Environment"</i>	Summer 2018
Internship Program Research mentor <i>Smithsonian Environmental Research Center</i>	Summer 2016

Professional Service

Reviewer for <i>Biogeochemistry</i>	2021 –
Reviewer for <i>Hydrological Processes</i>	2021 –
Reviewer for <i>Journal of Geophysical Research: Global Biogeochemical Cycles</i>	2020 –
Yale Graduate Student Health Advisory Committee	2019 – 2021
Yale Graduate Student Assembly (GSA) Representative	2019 – 2021
YSE Student Affairs Committee Member, Student Life Division	2018 – 2019
YSE PhD Student Interest Group (SIG), Co-chair	2018 – 2019

Professional Affiliations

Association for the Sciences of Limnology and Oceanography