

Laura Logozzo, PhD  
Post-doctoral Fellow, University of Lethbridge  
4401 University Dr W | Lethbridge, AB  
[laura.logozzo@uleth.ca](mailto:laura.logozzo@uleth.ca) | [lauralogozzo.github.io](https://lauralogozzo.github.io)

## 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 – 2022
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 &amp; 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

### Published

- Logozzo, L.A.**, Hosen, J.D., McArthur, J.\*, Raymond P.A. (2023) *Distinct drivers of two size fractions of operationally dissolved iron in a temperate river*. *Limnology & Oceanography*. doi: [10.1002/lno.12338](https://doi.org/10.1002/lno.12338)
- Maavara, T., Brinkerhoff, C., Hosen, J.D., Aho, K.S., **Logozzo, L.A.**, Saiers, J., Stubbins, A., Raymond, P.A. (2023) *Watershed DOC uptake occurs mostly in lakes in the summer and in rivers in the winter*. *Limnology and Oceanography*. doi: [10.1002/lno.12306](https://doi.org/10.1002/lno.12306)
- Logozzo, L.A.**, Martin, J.W., 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*. doi: [10.1007/s10533-022-00937-5](https://doi.org/10.1007/s10533-022-00937-5)
- Aho, K.S., Fair, J.H., Hosen, J.D., Kyzivat E.D., **Logozzo, L.A.**, Weber, L.C., Yoon, B., Zarnetske, J., Raymond, P.A. (2022) *An intense precipitation event causes a temperate forested drainage network to shift from N<sub>2</sub>O source to sink*. *Limnology and Oceanography*. doi: [10.1002/lno.12006](https://doi.org/10.1002/lno.12006)
- Aho, K.S., Fair, J.H., Hosen, J.D., Kyzivat, E.D., **Logozzo, L.A.**, Rocher-Ros, G., Weber, L.C., Yoon, B., Raymond, P.A. (2021) *Distinct concentration-discharge dynamics in temperate streams and rivers: CO<sub>2</sub> exhibits chemostasis while CH<sub>4</sub> exhibits source limitation due to temperature control*. *Limnology and Oceanography*. doi: [10.1002/lno.11906](https://doi.org/10.1002/lno.11906)
- Maavara, T., **Logozzo L.A.**, 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*. doi: [10.1029/2021JG006402](https://doi.org/10.1029/2021JG006402)
- Aho, K.S., Hosen J.D., **Logozzo L.A.**, McGillis, W.R., Raymond, P.A. (2021) *Highest rates of gross primary productivity maintained despite CO<sub>2</sub> depletion in a temperate river network*. *Limnology & Oceanography Letters*. doi: [10.1002/lol2.10195](https://doi.org/10.1002/lol2.10195)
- Logozzo, L.A.**, 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*. doi: [10.1029/2020JG005744](https://doi.org/10.1029/2020JG005744)
- DeVries, S., Loving, M., **Logozzo, L.A.**, 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*. doi: [10.1016/j.scitotenv.2020.137031](https://doi.org/10.1016/j.scitotenv.2020.137031)

## Invited Talks

---

- Logozzo, L.A. (2021) *Dissolved organic carbon and iron dynamics in the Connecticut River*. Invited Talk. YSE First Year Doctoral Seminar. New Haven, CT.
- Logozzo, L.A. (2021) *The mobilization of aged dissolved organic carbon in a large temperate river*. Invited Talk. ETH Zürich, LIP AMS Seminar. Zoom.

Logozzo, L.A. (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.A., Soued, C., Badiou, P., Bortolotti, L., Page, B., Kowal, P., Kalyn, H., Bogard, M. (2023) *Do different agricultural land-use regimes alter the cycling of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O in wetlands of the Canadian Prairie Pot-hole Region?* Talk. Society of Canadian Aquatic Sciences. Montreal, QC.
- Logozzo L.A., 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.A., Raymond P.A. (2021). *The mobilization of aged dissolved organic carbon in the Connecticut River*. Poster. YSE Climate Day. Zoom.
- Logozzo, L.A., Raymond, P.A. (2020) [\*Seasonal variability in dissolved iron and dissolved organic matter in the Connecticut River\*](#). Talk. YSE Research Conference. Zoom.
- Logozzo, L.A., 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.A., 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.A., 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.A., 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.A., 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.A., 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.A., 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 "Illuminating riverine dissolved organic carbon dynamics and export using carbon age"	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: <a href="#">“New Haven Promise Inspires New ‘Champions’ for the Environment”</a>	Summer 2018
Internship Program   Research mentor <i>Smithsonian Environmental Research Center</i>	Summer 2016

## Professional Service

---

Reviewer for <i>Biogeosciences</i>	2022 –
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  
Society of Canadian Aquatic Sciences