

Laura Logozzo, PhD

Associate Scientist, Hudson River Foundation

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Education

PhD	Yale University, School of the Environment Committee: Peter Raymond (Advisor), James Saiers, Timothy Eglinton, Benjamin Twining Thesis: “ <i>Dissolved Organic Matter Dynamics in a Large Temperate River</i> ”	Aug 2017-May 2023
MS	CUNY City College, Department of Earth and Atmospheric Sciences (EAS) Advisor: Maria Tzortziou GPA: 4.0/4.0 Thesis: “ <i>Microbial Degradation of Marsh-Exported Carbon</i> ”	Aug 2015-May 2017
BS	Macaulay Honors College at CUNY City College, EAS GPA: 3.838/4.0 Honors/awards: Summa cum laude, Ward medal (top grade point average) in Geology	Aug 2011-May 2015

Research Experience & Collaborations

Hudson River Foundation <i>Associate Scientist</i>		New York, NY May 2024-present
University of Lethbridge, Department of Biological Sciences <i>Post-doctoral Fellow</i> Supervisor: Matthew Bogard		Lethbridge, AB, Canada (Hybrid) Dec 2022-April 2024
NSF Watershed Rules of Life Project <i>Collaborator</i> PI: Peter Raymond, Co-PIs: Byron Crump, Colin Gleason		New Haven, CT Aug 2019-Jun 2020
ETH Zürich, Department of Earth Sciences <i>Visiting Researcher</i> Supervisors: Timothy Eglinton, Peter Raymond		Zürich, Switzerland May 2019
Yale University, School of the Environment <i>Lab Technician</i> Supervisor: James Saiers		New Haven, CT Aug 2018-Oct 2020
Yale University, School of the Environment <i>Lab Manager</i> Supervisor: Peter Raymond		Aug 2018-Mar 2020
U.S. Geological Survey (USGS), New England Water Science Center <i>Volunteer & Collaborator</i> Supervisor: Jon Morrison		Hartford, CT Aug 2017-Dec 2019
Smithsonian Environmental Research Center <i>Research Fellow</i> Supervisors: Patrick Neale, Patrick Megonigal, Maria Tzortziou		Edgewater, MD Jun-Aug 2016
Smithsonian Environmental Research Center <i>Research Intern</i> Supervisor: Patrick Neale		Jun-Aug 2015
City College of New York, Department of Earth and Atmospheric Sciences <i>Undergraduate Research Assistant</i> Supervisors: Pengfei Zhang, Stephanie DeVries		New York, NY Jan 2014-May 2015

Undergraduate Research Assistant
Supervisor: Steven Kidder

May 2014–Apr 2015

University of New Hampshire & Abisko Naturvetenskapliga Station
Northern Ecosystems Research for Undergraduates (NERU) program
Supervisors: Ruth Varner, Joel Johnson

Durham, NH and Abisko, Sweden
Jun–Aug 2014

Peer-Reviewed Publications

* Denotes mentee

Published/In Press

12. **Logozzo, L.A.**, Soued, C., Bortolotti, L. E., Badiou, P., Kowal, P., Page, B., Bogard, M.J. (2025). *Agricultural land use impacts aquatic greenhouse gas emissions from Wetlands in the Canadian Prairie Pothole Region*. Global Biogeochemical Cycles. doi: [10.1029/2024GB008209](https://doi.org/10.1029/2024GB008209)
11. Chan, C.N.*, Gushulak, C., Leavitt, P., **Logozzo, L.A.**, Finlay, K., Bogard, M.J. (2024) *Whole-ecosystem experimental eutrophication causes contrasting effects on emissions of CO₂, CH₄, and N₂O in agricultural ponds*. Environmental Science and Technology. doi: [10.1021/acs.est.3c07520](https://doi.org/10.1021/acs.est.3c07520)
10. Zhou X., **Logozzo, L.A.**, Johnston, S.E., Zink, L., Bogard, M.J. (2024) *Composition and bioreactivity of dissolved organic matter leachates from end members in a mountain to prairie transitional river valley*. Journal of Geophysical Research: Biogeosciences. doi: [10.1029/2023JG007831](https://doi.org/10.1029/2023JG007831)
9. **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)
8. 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)
7. **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)
6. 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 N₂O source to sink*. Limnology and Oceanography. doi: [10.1002/lno.12006](https://doi.org/10.1002/lno.12006)
5. 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: CO₂ exhibits chemostasis while CH₄ exhibits source limitation due to temperature control*. Limnology and Oceanography. doi: [10.1002/lno.11906](https://doi.org/10.1002/lno.11906)
4. 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)
3. Aho, K.S., Hosen J.D., **Logozzo L.A.**, 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. doi: [10.1002/lol2.10195](https://doi.org/10.1002/lol2.10195)
2. **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)
1. 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)

In prep/In review

3. Valizadeh, S.*, **Logozzo, L.A.**, Enayatizamir, N., Bogard, M.J. *In review*. *Extreme sensitivity of greenhouse gas production in mineral wetland sediments under multiple salinization regimes*. ACS Omega
2. **Logozzo, L.A.**, Woodman, S.G., Flanagan, L., Fernando, O., Bain, H., Bogard, M.J. *In prep*. *Aquatic carbon emissions dominate in a wetland restored with wastewater effluent: integrating across the terrestrial-aquatic boundary*. Target Journal: Geophysical Research Letters

1. **Logozzo, L.A.**, Eglinton, T., Haghypour, N., Maavara, T., Aho, K.S., Hosen, J.D., Raymond, P.A. *In prep.* *Tracing the radiocarbon bomb-pulse from the atmosphere to riverine dissolved organic carbon*. Target Journal: Ecosystems

Reports

2. The Hudson River Estuary Management Program and NY-NJ Harbor & Estuary Program. New York. (2024) [The State of the Estuary 2025](#).
1. **Logozzo, L.A.**, Bogard, M.J., Tilley M., Flanagan, L.B. (2023) *Frank Lake and Little Bow River Water Quality Report*. Report prepared for Cargill Foods.

Invited Talks

7. Logozzo, L.A., Eglinton, T.I., Haghypour, N., Maavara, T., Aho, K.S., Hosen, J.D., Raymond, P.A. (2024) *Tracing the radiocarbon bomb pulse from the atmosphere into riverine dissolved organic carbon*. Invited Talk. L'Université du Québec à Montréal (UQAM). Zoom.
6. Logozzo, L.A., Soued, C., Badiou, P., Bortolotti, L., Page, B., Kowal, P., Kalyn, H., Bogard, M.J. (2024) *Agricultural land use impacts aquatic greenhouse gas emissions from wetlands in the Canadian Prairie Pot-hole Region*. Webinar. Institute for Wetland & Waterfowl Research (IWWR), Ducks Unlimited Canada, Research Roundup. Teams.
5. Logozzo, L.A. (2023) *Dissolved organic matter dynamics in a large temperate river*. Invited Talk. Water Institute of Sustainable Environments Seminar Series. Lethbridge, AB, Canada.
4. Logozzo, L.A. (2023) *Do different agricultural land use regimes alter the cycling of CO₂, CH₄, and N₂O in wetlands of the Canadian Prairie Pot-hole Region?* Invited Talk. ECCC-CAAF Research Team Annual Meeting. Zoom.
3. Logozzo, L.A. (2021) *Dissolved organic carbon and iron dynamics in the Connecticut River*. Invited Talk. YSE First Year Doctoral Seminar. New Haven, CT, USA
2. Logozzo, L.A. (2021) *The mobilization of aged dissolved organic carbon in a large temperate river*. Invited Talk. ETH Zürich, LIP AMS Seminar. Zoom.
1. 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)

12. Logozzo, L.A., Woodman, S.G., Bain, H.D., Fernando, W.O.K., Flanagan, L.B., Bogard, M.J. (2023) *Using a whole ecosystem budget to explore whether effluent release shifts a model restored wetland from a net carbon sink to source*. Talk. AGU Fall Meeting. San Francisco, CA, USA.
11. Logozzo, L.A., Soued, C., Badiou, P., Bortolotti, L., Page, B., Kowal, P., Kalyn, H., Bogard, M.J. (2023) *Do different agricultural land-use regimes alter the cycling of CO₂, CH₄, and N₂O in wetlands of the Canadian Prairie Pot-hole Region?* Talk. Society of Canadian Aquatic Sciences. Montreal, QC, Canada.
10. 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, USA.
9. Logozzo, L.A., Raymond, P.A. (2021). *The mobilization of aged dissolved organic carbon in the Connecticut River*. Poster. YSE Climate Day. Zoom.
8. 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.
7. 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, USA. **Best poster award winner.**
6. 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.
5. 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, USA.
4. 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, USA.
3. 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, USA.

2. 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, USA. **Best poster award winner.**
1. 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, USA

Workshop Participation

"Wetlands as Nature-Based Climate Change Solutions," ECCC-CAAF funded project	May 2023
Highwood Little Bow River Management Plan – Public Advisory Committee	Mar 2023

Fellowships & Grants

University of Lethbridge Postdoctoral Fellow Dissemination Grant	\$1000 CAD	2023
Society of Canadian Aquatic Sciences Early Career Travel Award	\$150 CAD	2023
Yale Graduate Student Assembly Conference Travel Fund Award	\$750 USD	2022
NASA Connecticut Space Grant Graduate Research Fellowship	\$8000 USD	2019
<i>"Illuminating riverine dissolved organic carbon dynamics and export using carbon age"</i>		
Yale Graduate Student Assembly Conference Travel Fund Award	\$500	2019
Yale Institute of Biospheric Studies RFP Grant	\$3950 USD	2018
ASLO Aquatic Sciences Meeting Student Travel Fund	\$500 USD	2017
Smithsonian Graduate Student Fellowship	\$8000 USD	2016
<i>"Microbial degradation of marsh-exported carbon"</i>		
NOAA-CREST Graduate Student Fellowship	\$36,000 USD	2015-2017

Teaching & Mentoring

Mentorship of:

- Brooke Greenwood (BSc) Jan 2024-Apr 2024
- Sara Valizadeh (PhD) Jun 2023-Apr 2024
- Ilyanna Janvier (MSc) Dec 2022-Apr 2024
- Mariya Denny (MSc) Dec 2022-Apr 2024
- Chun Ngai Chan (PhD) Dec 2022-Apr 2024
- Jessica Dowling (BSc) Sep 2023-Dec 2024
- Johnae McArthur (BSc) | New Haven Promise Internship Jun 2018-Aug 2018
- Jocelyn Mendez (BSc) | Smithsonian Internship Program Jun 2018-Aug 2016

Teaching Fellow (*Yale University*):

- The Physical Science of Climate Change Spring 2021
- Watershed Cycles and Processes Fall 2019 & Fall 2020
- Multivariate Statistics for the Environmental Sciences Spring 2019

Workshops:

- ["Publication-Ready Figure Making using R ggplot2"](#) Laura Logozzo and Sam Woodman (2023) Water Institute for Sustainable Environments Seminar Series, University of Lethbridge
- ["Microsoft Excel Basics"](#) Laura Logozzo (2020) Watershed Cycles and Processes, Yale University. Primary Instructors: Peter Raymond and James Saiers

Guest Lecturing:

- ["Biogeochemistry of Inland Waters II"](#) (Fall 2023) Biogeochemistry, University of Lethbridge. Primary Instructor: Matthew Bogard

Professional Service & Volunteering

Reviewer for:

<i>Water Research</i>	2023-present
<i>Limnology and Oceanography</i>	2023-present
<i>Journal of Geophysical Research: Global Biogeochemical Cycles</i>	2023-present
<i>Biogeosciences</i>	2022-present
<i>Biogeochemistry</i>	2021-present
<i>Hydrological Processes</i>	2021-present
<i>Global Biogeochemical Cycles</i>	2020-present
Water Institute for Sustainable Environments Seminar Series, Co-organizer	Oct 2023-Apr 2024
Meeting of the Minds Conference, University of Lethbridge, Poster Presentation Judge	Mar 2023
Yale Graduate Student Health Advisory Committee, Member	2019-2021
Yale Graduate Student Assembly Representative, Elected Member	2019-2021
YSE Student Affairs Committee Member, Student Life Division, Member	2018-2019
YSE PhD Student Interest Group, Co-chair	2018-2019

Grant & Award Reviewing

University of Lethbridge Graduate Scholarships Adjudication Committee	Aug 2023
MITACS Accelerate Research Proposal	Apr 2023

Professional Affiliations

American Geophysical Union
 Association for the Sciences of Limnology and Oceanography
 Society of Canadian Aquatic Sciences

Press

[“Exploring the Depths of Water's Role in Climate Change”](#) (2022) *Canopy Magazine*
[“New Haven Promise Inspires New ‘Champions’ for the Environment”](#) (2018) *Yale School of the Environment*