Laura Logozzo

PhD Candidate, Yale University
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Education

PhD — Yale University | School of the Environment — 2017 –
Committee: Peter Raymond (Advisor), Jim Saiers, Tim Eglinton, Ben Twining
"Dissolved Organic Matter Dynamics in a Large Temperate River"

MS — CUNY City College | Earth and Atmospheric Sciences (EAS) — 2015 – 2017
Advisor: Maria Tzortziou
"Microbial Degradation of Marsh-Exported Carbon"

BS — Macaulay Honors College at CUNY City College | EAS — 2011 – 2015

Research Experience and Collaborations

Apalachicola Bay Sampling Surveys | Collaborator — May 2022
Collaborator: Wade McGillis
Led DIC, DOC, and greenhouse gas sampling surveys along estuarine salinity gradients

Watershed Rules of Life Project | Collaborator — 2019 –
PI: Peter Raymond | Co-PIs: Byron Crump, Colin Gleason
Sampled DIC, DOC, microbial DNA/RNA, and greenhouse gas across watersheds, seasonally

ETH Zürich | Visiting Researcher — 2019
Supervisors: Tim Eglinton, Peter Raymond
Preparation of DOC samples for radiocarbon measurement using wet chemical oxidation

United States Geological Survey (USGS) | Volunteer — 2017 – 2019
Collaborator: Jon Morrison
Maintenance of deployed water quality sondes

Smithsonian Environmental Research Center | Research Fellow — Summer 2016
Supervisors: Patrick Neale, Patrick Megonigal, Maria Tzortziou
"Microbial Degradation of Marsh-Exported Carbon"

Smithsonian Environmental Research Center | Research Intern — Summer 2015
Supervisor: Patrick Neale
Dissolved organic matter fluxes and fate from a brackish tidal marsh

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 review. *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 N_2O 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: CO_2 exhibits chemostasis while CH_4 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 CO_2 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 *"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 *"Microbial degradation of marsh-exported carbon"*	2016

NOAA-CREST Graduate Student Fellowship | $36,000 2015 – 2017

Teaching and Mentoring

The Physical Science of Climate Change | Teaching Fellow Spring 2021
Yale University

Watershed Cycles and Processes | Teaching Fellow Fall 2019/2020
Yale University

Multivariate Statistics for the Environmental Sciences | Teaching Fellow Spring 2019
Yale University

New Haven Promise Internship | Research mentor/supervisor Summer 2018
Yale University
Featured in: *"New Haven Promise Inspires New 'Champions' for the Environment"*

Internship Program | Research mentor Summer 2016
Smithsonian Environmental Research Center

Professional Service

Reviewer for *Biogeochemistry* 2021 –
Reviewer for *Hydrological Processes* 2021 –
Reviewer for *Journal of Geophysical Research: Global Biogeochemical Cycles* 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