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

Watershed Rules of Life Project | Collaborator — 2019 –
PI: Peter Raymond | Co-PIs: Byron Crump, Colin Gleason

ETH Zürich | Visiting Researcher — 2019
Supervisors: Tim Eglinton, Peter Raymond
14C-DOC sample processing using wet chemical oxidation

United States Geological Survey (USGS) | Volunteer — 2017 – 2019
Collaborator: Jon Morrison
Maintenance of deployed sondes for long-term, high-frequency monitoring

Smithsonian Environmental Research Center | Research Fellow — Summer 2016
Supervisors: Patrick Neale, Patrick Megonigal, and 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"

Publications

In prep

Logozzo, L., Raymond P.A. *Distinct drivers of two size fractions of riverine dissolved iron.*

In review

Logozzo, L., Martin, J., McArthur, J.*, Raymond, P.A. *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.* In revision at Biogeochemistry.

Published

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.

Presentations

Logozzo L., Martin, J.W., McArthur, J., Raymond, P.A. (planned). *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

NASA Connecticut Space Grant Graduate Research Fellowship | $8000 — 2019
"Illuminating riverine dissolved organic carbon dynamics and export using carbon age"

Yale Graduate Student Assembly Conference Travel Fund | $500 — 2019

Yale Institute of Biospheric Studies RFP Grant | $3950 — 2018

ASLO Aquatic Sciences Meeting, Student Travel Fund | $500 — 2017

Smithsonian Graduate Student Fellowship | $8000 — 2016
"Microbial degradation of marsh-exported carbon"

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 2019/20
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 –
YSE PhD Anti-Racism Network (YARN)	2020 – 2022
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