

CURRICULUM VITAE

Timothy J. Maguire

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Great Lakes Institute for Environmental Research • University of Windsor • Windsor ON

CAREER GOALS: My career goal is to be college professor. As a professor my goal is to engage in research focusing on how aquatic systems are changing due to anthropogenic impacts across local, regional, and global scales.

EDUCATION

Ph.D. Sept 2017	Boston University, Boston MA, GPA 3.97	Biology
A.L.M. May 2012	Harvard University Extension School, GPA 3.56	Environmental Management
B.S. June 2003	Massachusetts Maritime Academy, GPA 3.80	Marine Safety and Environmental Protection

APPOINTMENTS

2017 –	Postdoctoral Researcher, Great Lakes Institute for Environmental Research, Windsor ON
2013 – 2017	Teaching Fellow / Graduate Student, Boston University, Boston MA
2013 – 2014	Research Associate Rhode Island Sea Grant, Oyster Aquaculture & Water Quality
2007 – 2013	Environmental Scientist and Project Manager, OHI Engineering, Mansfield MA
2005 – 2007	Environmental Compliance Officer, Norwegian Cruise Lines, Miami FL
2003 – 2005	Environmental Officer, Royal Caribbean Cruise Lines, Miami FL
2002	Intern, KEY Environmental Services Inc., Rockland MA
2000	Intern, Woods Hole Group Laboratory, Raynham MA

COMPETITIVE FUNDING

2015	Boston University Initiative on Cities Research Grant
2015	Boston Athenaeum Mary Catherine Mooney Fellow
2015	Warren McLeod Summer Fellowship, Biology Department, Boston University
2013 – 2014	Boston University Graduate Fellowship
2002	National Science Foundation Research Opportunities for Undergraduates

PUBLICATIONS

Colborne SF, **Maguire TJ**, Mayer B, Nightingale M, Enns GE, Fisk AT, Drouillard KG, Mohamed MN, Weisener CG, Wellen C and Mundle SOC (2018). Water and sediment as sources of phosphate in aquatic ecosystems: The Detroit River and its role in the Laurentian Great Lakes. *Science of the Total Environment*. 647, 1594-1603

Maguire TJ, Wellen C, Stammler KL, and Mundle SO (2018). Increased nutrient concentrations in Lake Erie tributaries influenced by greenhouse agriculture. *Science of the Total Environment*, 633, 433-440.

Maguire TJ and Fulweiler RW (2017). The fate and effect of dissolved silicon within wastewater treatment effluent. *Environ. Sci. Technology*, DOI: 10.1021/acs.est.7b01276

Maguire TJ, Templer PH, Battles JJ, and Fulweiler RW (2017). Winter climate change decreases fine root biogenic silica in sugar maple trees (*Acer saccharum*): implications for silica export in the Anthropocene Journal of Geophysical Research: Biogeosciences, 122(3), 708-715

Fulweiler RW, Emery HE and **Maguire TJ** (2016). A workflow for reproducing mean benthic gas fluxes. Earth and Space Science, 3(8), 318-325.

Maguire TJ and Fulweiler RW (2016). Urban Dissolved Silica: Quantifying the Role of Groundwater and Runoff in Wastewater Influent. Environ. Sci. Technology, 50(1), 54–61

Fulweiler RW, **Maguire TJ**, Carey JC and Finzi AC (2014). Does Elevated CO₂ Alter Silica Uptake in Trees?. Front. Plant Sci. 5:793. DOI: 10.3389/fpls.2014.00793

Byers JE, Blakeslee AM, Linder E, Cooper AB, & **Maguire TJ** (2008). Controls of spatial variation in the prevalence of trematode parasites infecting a marine snail. Ecology, 89(2), 439-451.

MEDIA

- 2017 BU Research “Climate Change and an “Overlooked” Nutrient: Silica” URL: <https://www.bu.edu/research/articles/forest-ecology-and-silica/>
- 2015 BU Today “Science under Our Feet” URL: <http://www.bu.edu/today/2015/boston-groundwater-trust/>

PRESENTATIONS

- 2018 **Maguire, TJ**, Wellen C, Stammer KL, and Mundle SO “Increased nutrient concentrations in Lake Erie tributaries influenced by greenhouse agriculture” (Talk) International Association for Great Lakes Research.
- 2017 **Maguire, TJ**, Fulweiler, RW “How does history impact the biogeochemical cycles of Si?” (Talk) Coastal Estuarine Research Federation 2017 Conference.
- 2016 **Maguire, TJ**, Fulweiler, RW “Urban Dissolved Silica: The Impact of Wastewater Effluent on the Coastal Ocean” (Talk) New England Estuarine Research Society Fall 2016 Meeting. (*Awarded Best Graduate Student Presentation*)
- 2016 **Maguire, TJ**, Fulweiler, RW “Connecting History to Water Quality Part II” (Public Talk) Annual Proprietors’ Reception, June 2016 Boston Athenaeum.
- 2016 **Maguire, TJ**, Fulweiler, RW “Connecting History to Water Quality” (Public Talk) Fellow presentation, March 2016 Boston Athenaeum.
- 2016 **Maguire, TJ**, Organizer and Moderator for BU Biogeoscience Symposium, January, 2016.
- 2015 **Maguire, TJ**, Fulweiler, RW “Wastewater and urban runoff -significant anthropogenic sources of silica to coastal systems” (Talk) Coastal Estuarine Research Federation 2015 Conference.
- 2015 Maguire, TJ, **Fulweiler, RW**, “City shortcuts: documenting Si export pathways in an urban ecosystem” (Talk) The Geological Society of America 2015 Conference.

- 2015 **Maguire, TJ**, Fulweiler, RW “Urban Runoff – an overlooked yet Significant Source of Silica to Coastal Habitats.” (Talk) New England Estuarine Research Society Spring 2015 Meeting.
- 2015 **Maguire, TJ**, Fulweiler, RW “Urban Runoff and the Biogeochemical Cycles of Dissolved Silica.” (Talk) BU Biogeoscience Symposium, January, 2015.
- 2014 **Maguire, TJ**, Fulweiler, RW “The Effects of Urbanization on the Biogeochemical Cycles of Dissolved Silica.” (Talk) New England Estuarine Research Society Spring 2014 Meeting. (*Awarded Honorable Mention Best Graduate Student Presentation*)
- 2012 **Maguire, TJ**, Frankic, A “Development of a Salt Marsh Restoration Site Selection Method for Urban Harbors.” (Poster) National Conference Coastal and Estuarine Habitat Restoration

BIOLOGY GRADUATE PROGRAM STUDENT SEMINAR SERIES:

- 2015 **Maguire, TJ**, Fulweiler, RW “Urban Dissolved Silica: Quantifying the Role of Groundwater and Runoff in Wastewater Influent” (Talk)
- 2014 **Maguire, TJ**, Fulweiler, RW “The Role of Urbanization on the Biogeochemical Cycles of Dissolved Silica.” (Talk)

TEACHING and MENTORING

TEACHING FELLOWSHIPS:

2015 (Fall)	BI 107 Introduction to Biology I
2014 (Spring)	BI 303 Evolutionary Ecology
2014 (Fall)	BI 306 Biology of Global Change
2013 (Spring)	BI 108 Introduction to Biology II

MENTORING:

2017	Mentor to Julia Masterman (BU Undergraduate)
2015	Mentor to Halina Malinowski (BU Undergraduate)
2014	Mentor to Elena Newmark (BU Undergraduate)

REFERENCES

Scott Mundle, Assistant Professor, Great Lakes Institute for Environmental Research, University of Windsor, Ontario, 519-253-3000 x3755, smundle@uwindsor.ca

Robinson Fulweiler, Associate Professor, Boston University Departments of Earth & Environment and Biology, 617-258-5466, rwf@bu.edu

Pamela Templer, Professor, Boston University Department of Biology
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Adrien Finzi, Professor, Boston University Department of Biology
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