

René S. Shahmohamadloo

School of Biological Sciences, Washington State University

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Education

- 2021 **Ph.D., Environmental Toxicology**, University of Guelph, Advisor: Paul Sibley
2016 **M.Sc., Environmental Toxicology**, University of Guelph, Advisor: Paul Sibley
2014 **B.Sc. (Hons.), Toxicology**, University of Guelph

Professional Appointments

- 2022-2025 **Liber Ero Postdoctoral Fellow**, Biological Sciences, Washington State University
Advisor: Seth Rudman, John Fryxell
2022-2024 **NSERC Postdoctoral Fellow**, Biological Sciences, Washington State University
Advisor: Seth Rudman
2021-2022 **Postdoctoral Researcher**, Integrative Biology, University of Guelph
Advisor: John Fryxell

Publications

Refereed Journal Articles (*denotes equal contribution; †denotes mentee | supervised)

15. **Shahmohamadloo, R.S.**, Bhavsar, S.P., Ortiz Almirall, X., Marklevitz, S.A.C., Rudman, S.M., Sibley, P.K. (2023). Lake Erie fish safe to eat yet afflicted by algal hepatotoxins. *Sci. Total Environ.* (PhD work). IF = 10.75
14. Hataley, E.K.†, **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Harrison, A.L., Rochman, C.M., Zou, S., Orihel, D.M. (2022). Experimental evidence from the field that naturally weathered microplastics accumulate cyanobacterial toxins in eutrophic lakes. *Environ. Toxicol. Chem.* (PhD work). IF = 4.22
13. **Shahmohamadloo, R.S.**, Febria, C.M., Fraser, E.D.G., Sibley, P.K. (2022). The Sustainable Agriculture Imperative: The need for an Agrosystem Approach to Meet the United Nations Sustainable Development Goals by 2030. *Integr. Environ. Assess. Manag.* (PhD work). IF = 3.08
12. **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Simmons, D.B.D., Bhavsar, S.P., Poirier, D.G., Sibley, P.K. (2022). Fish tissue accumulation and proteomic response to microcystins is species-dependent. *Chemosphere*, 132028. (PhD work). IF = 8.94
11. **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Simmons, D.B.D., Lumsden, J.S., Bhavsar, S.P., Watson-Leung, T., Vander Eyken, A.†, Hankins, G.†, Hubbs, K.†, Konopelko, P.†, Sanarcki, M.†, Strong, D.†, Sibley, P.K. (2021). Cyanotoxins within and outside of *Microcystis aeruginosa* cause adverse effects in Rainbow Trout (*Oncorhynchus mykiss*). *Environ. Sci. Technol.*, 55(15), 10422-10431. (PhD work). IF = 11.36
10. Guo, Y., O'Brien, A.M., Lins, T.F., **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Rochman, C.M., Sinton, D. (2021). The Effects of Hydrogen Peroxide on Cyanobacterium *Microcystis aeruginosa* in the Presence of Nanoplastics. *ACS ES&T Water*, 1(7), 1596-1607. (PhD work).
9. **Shahmohamadloo, R.S.** (2020). Mentoring with trust. *Science*, 369(6508), 1270. (PhD work). IF = 59.92
8. Anaraki, M.T., **Shahmohamadloo, R.S.**, Sibley, P.K., MacPherson, K.A., Bhavsar, S.P., Simpson, A.J., Ortiz Almirall, X. (2020). Optimization of an MMPB Lemieux Oxidation method for the quantitative analysis of microcystins in fish tissue by LC-QTOF MS. *Sci. Total Environ.*, 737, 140209. (PhD work). IF = 10.75
7. **Shahmohamadloo, R.S.**, Simmons, D.B.D., Sibley, P.K. (2020). Shotgun proteomics analysis reveals sub-lethal effects in *Daphnia magna* exposed to cell-bound microcystins produced by *Microcystis aeruginosa*. *Comp. Biochem. Phys. D.*, 33, 100656. (PhD work). IF = 3.31
6. **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Bhavsar, S.P., Poirier, D.G., Sibley, P.K. (2020). Assessing the toxicity of cell-bound microcystins on freshwater pelagic and benthic invertebrates. *Ecotox. Environ. Safe.*, 188, 109945. (PhD work). IF = 7.13

5. **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Holeton, C., Bhavsar, S.P., Poirier, D.G., Sibley, P.K. (2019). Adopting a culture technique to produce and sustain high concentrations of microcystins by *Microcystis aeruginosa* in laboratory. *MethodsX*, 6, 2521-2535. (PhD work). IF = 2.80
4. Gene, S.M.†, **Shahmohamadloo, R.S.**, Ortiz, X., Prosser, R.S. (2019). Effect of *Microcystis aeruginosa*-associated microcystin-LR on the survival of 2 life stages of freshwater mussel (*Lampsilis siliquoidea*). *Environ. Toxicol. Chem.*, 38(10), 2137-2144. (PhD work). IF = 4.22
3. **Shahmohamadloo, R.S.**, Lissemore, L., Prosser, R.S., Sibley, P.K. (2017). Comparative evaluation of four biosolids formulations on the effects of triclosan on plant-arbuscular mycorrhizal fungal interactions in three crop species. *Sci. Total. Environ.*, 583, 292-299. (MSc work). IF = 10.75
2. **Shahmohamadloo, R.S.**, Lissemore, L., Prosser, R.S., Sibley, P.K. (2016). Evaluating the effects of triclosan on three field crops grown in four formulations of biosolids. *Environ. Toxicol. Chem.*, 36(7), 1896-1908. (MSc work). IF = 4.22
1. Prosser, R.S., Lissemore, L., **Shahmohamadloo, R.S.**, Sibley, P.K. (2015). Effect of biosolids-derived triclosan and triclocarban on the colonization of plant roots by arbuscular mycorrhizal fungi. *Sci. Total. Environ.*, 508, 427-434. (BSc work). IF = 10.75

Manuscripts in Review and Revision

16. **Shahmohamadloo, R.S.**, Bhavsar, S.P., Ortiz Almirall, X., Marklevitz, S.A.C., Rudman, S.M., Sibley, P.K. (2023). Low human health risks to algal toxins from consuming fish caught in Lake St. Clair. *Sci. Total. Environ.* (PhD work). IF = 10.75

Manuscripts in Preparation

17. **Shahmohamadloo, R.S.***, Rudman, S.M.*, Clare, C.I., Westrick, J.A., De Meester, L., Fryxell, J.M. (2023). Population-level intraspecific genetic variation is critical to ecotoxicology of *Daphnia*. (PDF work).
18. **Shahmohamadloo, R.S.***, Tissier, M.L.*, Guzman, L.M.* (2023). Laboratory toxicity assays largely inform pesticide policies yet may underestimate true risks in the field. (PDF work).

Book Chapters

19. **Shahmohamadloo, R.S.**, Frenken, T., Rudman, S.M., Van West, P., Ibelings, B.W., Trainer, V.L. (2023). Diseases and Disorders in Fish due to Harmful Algal Blooms. *Climate Change on Diseases and Disorders of Finfish in Cage Culture* (3rd edition). In Press, CABI, Oxfordshire, UK. (PDF work).

Grants, Fellowships, & Awards

Period held	Name of Grant/Fellowship, Location of Tenure	Value (CDN)
2022-2025	Liber Ero Postdoctoral Fellowship, Washington State University	\$170,000
2022-2024	NSERC Postdoctoral Fellowship, Washington State University*	\$90,000
2022	Mitacs Globalink Research Award, Washington State University	\$6,000
2022	IFHAB Best Student Paper Award, Washington State University	\$750
2020	Rockefeller Foundation Food System Vision Prize (Semi-Finalist)†	
2020	IAGLR Scholarship, University of Guelph	\$2,500
2018-2020	Ontario Graduate Scholarship, University of Guelph	\$30,000
2016-2020	NSERC CREATE Doctoral Scholarship, University of Guelph	\$84,000
2018	OFAH Fisheries Research Grant, University of Guelph	\$4,000
2016-2018	University Graduate Scholarship, University of Guelph	\$9,000
2016-2018	SETAC North America Student Travel Grant, University of Guelph	\$1,000
2016	SETAC North America Best Presenter Award (2 nd Place), University of Guelph	\$500
2016	Graduate Excellence Entrance Scholarship, University of Guelph	\$30,000
2015	Dean's Scholarship, University of Guelph	\$1,000
2013	André Auger Citizenship Award, University of Guelph	
2011	URA Award in Department of Chemistry, University of Guelph	\$6,500
2011	International Film Contest Winner, Tony Blair Institute for Global Change	

*Ranked 'Outstanding' (above 80th percentile) in all NSERC selection criteria (i.e., research ability and potential, communication, interpersonal, and leadership abilities, and overall relative standing out of 74 applications in Selection Committee for Evolution and Ecology)

†Co-PI. Selected as one of 75 semi-finalists from 1,300 applicants worldwide

Contributions to Equity, Diversity, and Inclusion

2022-present **EDI Committee Member**, Department of Integrative Biology, University of Guelph

Developing an equitable framework for the tenure and promotion process at the University through guidelines, surveys, and disseminating results to the College Dean

Supporting graduate students via regular meetings on equitable matters including pay transparency and promoting EDI in the hiring process of research assistants

Revising the University's mandatory anti-racism module to better address what individuals should do when they face racism in the workplace

2021-present **EDI Committee Member**, International Association for Great Lakes Research

Created two new EDI student scholarships (>\$1,000 each) to support underrepresented minorities in IAGLR, awarded annually at the IAGLR conference

Co-applicant on successfully funded NSF ACCESS+ Mini-Grant to support the formation of the two EDI student scholarships

Co-applicant on NSF Grant (\$500,000) "Leading Culture Change Through Professional Societies of Biology (BIO-LEAPS) to increase EDI initiatives and training in IAGLR

2016-present **Chairperson**, Campus Association for Bahá'í Studies, University of Guelph

Hosting a monthly space (virtual during 2020-2021 because of Covid-19) for graduates and undergraduates of underrepresented minorities across disciplines to come together to promote inquiry within the sciences and humanities to advance thought and practice that address the needs of contemporary society

2012-2016 **Educator**, Youth Empowerment Course, Upper Grand District School Board

Developed and taught a weekly course in two elementary schools (Gateway Drive Public School and Westwood Public School) using STEM course materials of the Junior Youth Empowerment Program

Taught 103 seventh and eighth grade students from diverse ethnic, cultural, and socioeconomic backgrounds until their graduation into high school

Recruited and trained 5 undergraduates as teaching assistants

2007-present **Co-founder**, Junior Youth Empowerment Program, Guelph, ON, Canada

Co-founded a neighbourhood-based program engaging 11-15 year-olds from diverse ethnic, cultural, and socioeconomic backgrounds using STEM course materials designed to help to develop their capacity to articulate complex thoughts, serve their communities, and reflect on their patterns of thought and action

2017-present **Professional Training**

Community & Equity Certificate Program, Washington State University (2022)

Principles of Belonging: Anti-Oppression & Anti-Racism Training, University of Guelph (2020)

Diversity and Human Rights Faculty Recruitment Training, University of Guelph (2017)

Invited Talks

2022 Department of Biological Sciences, University of Memphis, United States (October 7)

2022 Department of Biology, University of Waterloo, Canada (September 23)

2022 School of Biological Sciences, Washington State University, United States (August 31)

2022 Department of Biology, University of New Brunswick Saint John, Canada (May 24)

- 2022 Department of Integrative Biology, University of Windsor (March 25)
- 2022 Department of Biology, Mount Allison University, Canada (January 21)
- 2021 School of Environmental Sciences, University of Guelph, Canada (October 22)
- 2021 Lake Erie Management Fisheries Zone 19, Canada (October 5)
- 2021 Lake Erie Partnership Working Group, Canada (May 19)
- 2021 Ontario Ministry of Natural Resources and Forestry, Canada (May 10)
- 2021 Department of Biology, Queen's University, Canada (February 4)
- 2020 Rockefeller Foundation and EAT Foundation, Norway (June 30)
- 2018 Ontario Federation of Anglers and Hunters, Canada (September 7)

Conference Activity/Participation

Conferences/Symposia Organized

- 2023 4th Interdisciplinary Freshwater Harmful Algal Blooms Workshop, QC, Canada, 100-150 participants (May 3-4)
- 2022 12th International Conference on Toxic Cyanobacteria (joint with Interdisciplinary Freshwater Harmful Algal Blooms Workshop), Toledo, OH, USA, 300-400 participants (May 22-27)
- 2021 Interdisciplinary Freshwater Harmful Algal Blooms Webinar: The Future of Freshwater Harmful Algal Blooms Research, QC, Canada, 250-300 participants (June 8-9)
- 2020 4th Interdisciplinary Freshwater Harmful Algal Blooms Workshop, ON, Canada, 100-150 participants (April 20-22) - *cancelled due to Covid-19*
- 2019 3rd Interdisciplinary Freshwater Harmful Algal Blooms Workshop, ON, Canada, 100-150 participants (April 24-26)
- 2018 2nd Interdisciplinary Freshwater Harmful Algal Blooms Workshop, ON, Canada, 100-150 participants (April 16-18)
- 2018 Kenneth Hammond Lecture & Spring Sustainability Symposium, University of Guelph, ON, Canada, 50-100 participants (March 25)
- 2017 Kenneth Hammond Lecture & Spring Sustainability Symposium, University of Guelph, ON, Canada, 50-100 participants (April 19)

Panels Organized

- 2022 Current and future issues in cyanobacterial harmful algal bloom detection, monitoring, mitigation and management, 12th International Conference on Toxic Cyanobacteria, Toledo, OH, USA (May 22-27)
- 2017 Harmful algal bloom toxins in biota of the Great Lakes, Canadian Ecotoxicity Workshop, University of Guelph, ON, Canada (October 1-4)
- 2017 The Science and Policy of Multiple Stressors and Cumulative Effects in the Great Lakes, IAGLR 60th Conference (Virtual), Wayne State University, MI, USA (May 15-19)

Invited Panelist

- 2022 Experts in the hot seat: What is the greatest challenge facing us in the management and reduction of cyanobacterial harmful algal blooms, 12th International Conference on Toxic Cyanobacteria, Toledo, OH, USA (May 22-27)
- 2020 The state of Great Lakes research in the face of COVID-19, IAGLR 63rd Conference (Virtual), Winnipeg, MB, Canada (June 9-11)

Conference Presentations (*denotes presenting author)

Shahmohamadloo, R.S.*, Ortiz Almirall, X., Simmons, D.B.D., Bhavsar, S.P., Rudman, S.M., Fryxell, J.M., and Sibley, P.K. (2022) Harmful algal blooms of the cyanobacterium *Microcystis* cause deleterious effects in aquatic organisms: Implications for freshwater biodiversity conservation. 12th International Conference on Toxic Cyanobacteria, Toledo, OH, USA. International Conference. Poster Presentation (PDF work).

Shahmohamadloo, R.S., Ortiz Almirall, X., Simmons, D.B.D., Bhavsar, S.P., and Sibley, P.K.* (2022) Harmful algal blooms of the cyanobacterium *Microcystis* cause deleterious effects in aquatic organisms:

Implications for freshwater biodiversity conservation. JASM, Grand Rapids, MI, USA. International Conference. Oral Presentation (PDF work).

Shahmohamadloo, R.S.*, Rudman, S.M., and Fryxell, J.M. (2021) From genes to populations: intraspecific genetic variation in the sublethal effects of harmful algae. SETAC North America 42nd Annual Meeting, Portland, OR, USA. International Conference. Oral Presentation (PDF work).

Shahmohamadloo, R.S.*, Rudman, S.M., and Fryxell, J.M. (2021) Intraspecific genetic variation in the sublethal effects of harmful algae. Canadian Society of Ecology and Evolution, University of British Columbia, BC, Canada. National Conference. Oral Presentation (PDF work).

Sibley, P.K.*, **Shahmohamadloo, R.S.**, Knight, A., Simmons, D.B.D., Bhavsar, S.P., Ortiz Almirall, X., Rudman, S.M., Fryxell, J.M., Holeton, C., and Poirier, D.G. (2021) The ecotoxicology of microcystins in freshwater environments: prospects for future research. Interdisciplinary Freshwater Harmful Algal Blooms Webinar: The Future of Freshwater Harmful Algal Blooms Research, University of Montréal, QC, Canada. International Conference. Oral Presentation (PDF work).

Shahmohamadloo, R.S.*, Ortiz Almirall, X., Simmons, D.B.D., Lumsden, J.S., Bhavsar, S.P., Watson-Leung, T., Vander Eyken, A., Hankins, G., Hubbs, K., Konopelko, P., Sanarcki, M., Strong, D., and Sibley, P.K. (2021) Microcystins in both intracellular and extracellular states can cause disease-related effects in Rainbow Trout (*Oncorhynchus mykiss*). IAGLR 64th Conference (Virtual), Michigan Technological University, MI, USA. International Conference. Oral Presentation (PhD work).

Shahmohamadloo, R.S.*, Ortiz Almirall, X., Simmons, D.B.D., Lumsden, J.S., Bhavsar, S.P., Watson-Leung, T., Vander Eyken, A., Hankins, G., Hubbs, K., Konopelko, P., Sanarcki, M., Strong, D., and Sibley, P.K. (2020) Distinguishing the toxicokinetics between intracellular and extracellular microcystin exposure to Rainbow Trout (*Oncorhynchus mykiss*). SETAC North America 41st Annual Meeting, SciCon2, Waco, TX, USA. International Conference. Oral Presentation (PhD work).

Hataley, E.*, Ortiz Almirall, X., Rochman, C.M., **Shahmohamadloo, R.S.**, Orihel, D.M. (2020) Sorption of Microcystins to Microplastics in Freshwater Ecosystems. SETAC North America 41st Annual Meeting, SciCon2, Waco, TX, USA. International Conference. Oral Presentation (PhD work).

Shahmohamadloo, R.S.*, Simmons, D.B.D., and Sibley, P.K. (2020) Shotgun proteomics analysis reveals sublethal effects in *Daphnia magna* exposed to cell-bound microcystins produced by *Microcystis aeruginosa*. IAGLR 63rd Conference (Virtual), Winnipeg, MB, Canada. International Conference. Poster Presentation (PhD work).

Knight, A.*, Ortiz Almirall, X., Bhavsar, S.P., **Shahmohamadloo, R.S.**, Sibley, P.K. (2020) Transgenerational development of microcystin toxin tolerance in *Daphnia magna*. IAGLR 63rd Conference (Virtual), Winnipeg, MB, Canada. International Conference. Oral Presentation (PhD work).

Hataley, E.*, Ortiz Almirall, X., Rochman, C.M., **Shahmohamadloo, R.S.**, Orihel, D.M. (2020) Assessing the sorption of the cyanotoxins microcystins to microplastics. Platform presentation. The LEADERS and PEOPLE 2020 Virtual Symposium: Water Management in a Changing Climate. Regional Conference. Oral Presentation (PhD Work).

Sibley, P.K.*, **Shahmohamadloo, R.S.** (2020) Building Resiliency in Agricultural Landscapes: A Conceptual Framework Focused on Risk Management. SETAC Europe 28th Annual Meeting, Dublin, LEN, Ireland. International Conference. Poster Presentation (PhD work).

Gene, S.M.*, **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Prosser, R.S. (2019) Effect of *Microcystis aeruginosa*-associated microcystin-LR on the survival of 2 life stages of freshwater mussel (*Lampsilis siliquoidea*). Canadian Freshwater Mollusc Research Meeting, Burlington, ON, Canada. Regional Conference. Oral Presentation (PhD work).

Shahmohamadloo, R.S.*, Ortiz Almirall, X., Holeton, C., Bhavsar, S.P., Poirier, D.G., Sibley, P.K. (2019) Assessing the differences in uptake and depuration potential of intra- and extracellular microcystins in *Salvelinus namaycush* and *Oncorhynchus mykiss*. SETAC North America 40th Annual Meeting, Toronto, ON, Canada. International Conference. Poster Presentation (PhD work).

Shahmohamadloo, R.S.*, Ortiz Almirall, X., Holeton, C., Bhavsar, S.P., Poirier, D.G., Sibley, P.K. (2019) An efficient and affordable laboratory method to produce and sustain high concentrations of microcystins by *Microcystis aeruginosa*. SETAC North America 40th Annual Meeting, Toronto, ON, Canada. International Conference. Poster Presentation (PhD work).

- Hataley, E.*, Ortiz Almirall, X., Rochman, C.M., **Shahmohamadloo, R.S.**, Orihel, D.M. (2019) Can microplastics act as a medium to concentrate waterborne microcystin? SETAC North America 40th Annual Meeting, Toronto, ON, Canada. International Conference. Poster Presentation (PhD work).
- Hataley, E.*, Ortiz Almirall, X., Rochman, C.M., **Shahmohamadloo, R.S.**, Orihel, D.M. (2019) Can microplastics act as a medium to concentrate waterborne microcystin? Interdisciplinary Freshwater Harmful Algal Blooms Workshop 3rd Annual Meeting, Toronto, ON, Canada. International Conference. Poster Presentation (PhD work).
- Shahmohamadloo, R.S.***, Poirier, D.G., Ortiz Almirall, X., Simmons, D.B.D., Stevack, K., Bhavsar, S.P., Sibley, P.K. (2018) *Microcystis aeruginosa* adversely impacts *Daphnia* spp.: Posing risks to food webs of the Great Lakes. SETAC North America 39th Annual Meeting, Sacramento, CA, USA. International Conference. Poster Presentation (PhD work).
- Shahmohamadloo, R.S.***, Poirier, D.G., Ortiz Almirall, X., Holeton, C., Bhavsar, S.P., Sibley, P.K. (2018) *Microcystis aeruginosa* adversely impacts *Daphnia* spp.: Posing risks to food webs of the Great Lakes. IAGLR 61st Conference, Toronto, ON, Canada. International Conference. Oral Presentation (PhD work).
- Karakolis, E.G.*, Bguyen, B., **Shahmohamadloo, R.S.**, Sibley, P.K., Sinton, D. (2018) Microplastics can adsorb microcystins. Interdisciplinary Freshwater Harmful Algal Blooms Workshop 2nd Annual Meeting, Toronto, ON, Canada. International Conference. Oral Presentation (PhD work).
- Simmons, D.B.D.*, **Shahmohamadloo, R.S.**, Tabatabaie Anaraki, M., Chong-Kit, R., Poirier, D., Ortiz Almirall, X., Jobst, K., Reiner, E., Simpson, A., Simpson, M. (2018) Proteome responses of microcystin-exposed *Daphnia magna*. Interdisciplinary Freshwater Harmful Algal Blooms Workshop 2nd Annual Meeting, Toronto, ON, Canada. International Conference. Oral Presentation (PhD work).
- Simmons, D.B.D.*, **Shahmohamadloo, R.S.**, Tabatabaie Anaraki, M., Chong-Kit, R., Poirier, D.G., Ortiz Almirall, X., Jobst, K., Reiner, E., Simpson, A., Simpson, M. (2017) Proteome responses of microcystin-exposed *Daphnia magna*. Canadian Ecotoxicity Workshop, Guelph, ON, Canada. Regional Conference. Oral Presentation (PhD work).
- Shahmohamadloo, R.S.*** (2017) A resourceful approach to managing sewage sludge: An effects-based look at the micro-constituents in land-applied biosolids. FarmSmart Conference: Municipal Biosolids Beneficial Use Education Day, Milton, ON, Canada. Regional Conference. Oral Presentation (MSc work).
- Shahmohamadloo, R.S.***, Sibley, P.K. (2016) Evaluating the effects of triclosan on field crops and arbuscular mycorrhizal fungi in biosolids-amended soil. Water Environment Association of Ontario Annual Residuals and Biosolids Conference, Calgary, AB, Canada. Regional Conference. Oral Presentation (MSc work).
- Shahmohamadloo, R.S.***, Sibley, P.K. (2015) Evaluating the effects of triclosan on field crops and arbuscular mycorrhizal fungi in biosolids-amended soil. SETAC North America 36th Annual Meeting, Salt Lake City, UT, USA. International Conference. Oral Presentation (MSc work).
- Shahmohamadloo, R.S.***, Sibley, P.K. (2014) Evaluating the effects of triclosan on field crops and arbuscular mycorrhizal fungi in biosolids-amended soil. Canadian Ecotoxicity Workshop 41st Annual Meeting, Ottawa, ON, Canada. National Conference. Oral Presentation (MSc work).

Teaching Experience

Courses Taught

- 2017-2019 Teaching Assistant. Project in Environmental Sciences (ENVS4001/02), University of Guelph
- 2016 Teaching Assistant. Pesticides and the Environment (ENVS3020), University of Guelph

Professional Training

- 2019 Graduate Research and Project Management (Certificate course), University of Guelph
- 2018 University Teaching: Theory and Practice (Credit course), University of Guelph

Mentoring Students (16 students total: 12 female, 3 first-gen, 2 underrepresented minority)

William Smith BSc (2022-2023), **Julia Bourdeau** BSc (2021-2022), **Megan Braun** BSc (2021-2022), **Mathew Mervyn** BSc (2021-2022), **Megan Duchesne** BSc (2020-2021), **Kennedy Hanczyk** BSc (2020-

2021), **Talia Hoffman** BSc (2020-2021), **Rebecca Smart** BSc (2020-2021), **Gabrielle Hankins** BSc (2020-2021), **Kate Hubbs** BSc (2020-2021), **Polina Konopelko** BSc (2020-2021), **Michael Sanarcki** BSc (2020-2021), **Damon Strong** BSc (2020-2021), **Angela Vander Eyken** BSc (2020-2021), **Alexis Knight** MSc (2018-2020), **Samantha Gene** BSc (2018-2019)

Service to Profession

Departmental

2022-present Equity, Diversity, and Inclusion Committee, Department of Integrative Biology
 2018-2020 Undergraduate Curriculum Committee, School of Environmental Sciences
 2016-2020 Communications and Outreach Committee, School of Environmental Sciences
 2016-2020 Organizing Committee for Kenneth Hammond Lecture
 2017-2018 Search Committee for Professor, School of Environmental Sciences

External

2021-present Board of Directors for the International Association for Great Lakes Research
 2017-present Scientific Committee for Interdisciplinary Freshwater Harmful Algal Blooms Workshop

Ad-hoc Reviewer

2017-present Aquatic Toxicology (2), Chemosphere (1), Comprehensive Reviews in Food Science and Food Safety (1), Ecology and Evolution (1), Ecotoxicology and Environmental Safety (15), Environmental Pollution (5), Environmental Science and Pollution Research (5), Freshwater Biology (1), Frontiers in Microbiology (1), Harmful Algae (3), Journal of Hazardous Materials (5), Journal of Industrial and Engineering Chemistry (1), Marine and Freshwater Behaviour Physiology (1), Neurotoxicity Research (1), Reviews of Environmental Contamination and Toxicology (1), Science of the Total Environment (22), Toxicon (2)

Ad-hoc Grant Reviewer

2021-present BiodivERsA (1), Water JPI (1)

Community Involvement/Outreach

2016-present **Chairperson**, Campus Association for Bahá'í Studies, University of Guelph
 Hosting a monthly space (virtual during 2020-2021 because of Covid-19) for graduates and undergraduates of underrepresented minorities across disciplines to come together to promote inquiry within the sciences and humanities to advance thought and practice that address the needs of contemporary society

2015-2016 **Educator**, Westwood Public School, Guelph, ON, Canada
 Mentored 50 seventh and eighth grade students using STEM course materials below

2013-2015 **Educator**, Gateway Drive Public School, Guelph, ON, Canada
 Mentored 53 seventh and eighth grade students using STEM course materials below

2007-present **Co-founder**, Junior Youth Empowerment Program, Guelph, ON, Canada
 Co-founded a neighbourhood-based program engaging 11-15 year-olds from diverse ethnic, cultural, and socioeconomic backgrounds using STEM course materials designed to help to develop their capacity to articulate complex thoughts, serve their communities, and reflect on their patterns of thought and action

Languages

English Native proficiency

French Limited working proficiency

Persian Limited working proficiency

Professional Memberships

Canadian Society for Ecology and Evolution (CSEE), International Association for Great Lakes Research (IAGLR), Society of Environmental Toxicology and Chemistry for North America (SETAC NA), Laurentian Chapter for the Society of Environmental Toxicology and Chemistry (L-SETAC)