

RENÉ SAHBA SHAHMOHAMADLOO

Citizenship: Canadian

Institutional Address:

School of Biological Sciences
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EDUCATION

- 2021 **PhD in Aquatic Toxicology**, University of Guelph, Advisor: Paul K Sibley
Dissertation: The toxicology of microcystins in freshwater organisms of the Great Lakes
- 2016 **MSc in Environmental Toxicology**, University of Guelph, Advisor: Paul K. Sibley
Dissertation: Evaluating the effects of triclosan on field crops and arbuscular mycorrhizal fungi in biosolids-amended soil
- 2014 **BSc (Hons.) in Toxicology**, University of Guelph

PROFESSIONAL APPOINTMENTS

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

PUBLICATIONS (*denotes equal contribution; †denotes mentee I supervised)

Refereed Journal Articles

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 = 7.08

Shahmohamadloo, R.S., Febria, C.M., Fraser, E.D.G., Sibley, P.K. (2021). 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 = 3.44

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 = 9.02

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).

Shahmohamadloo, R.S. (2020). Mentoring with trust. *Science*, 369(6508), 1270. (PhD work). IF = 47.72

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 = 7.96

- 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 = 3.01
- 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 = 6.29
- 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 = 1.83
- 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 = 3.74
- 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 = 7.96
- 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 = 3.74
- 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 = 7.96

Manuscripts in Review and Revision

- Hataley, E.K., **Shahmohamadloo, R.S.**, Ortiz Almirall, X., Harrison, A.L., Rochman, C.M., Zou, S., Orihel, D.M. (2022). Experimental evidence demonstrating microplastics influence the environmental fate of cyanobacterial toxins in freshwaters. *Environ. Toxicol. Chem.* (PhD work). IF = 3.74

Manuscripts in Preparation

- Shahmohamadloo, R.S.**, Bhavsar, S.P., Ortiz Almirall, X., Marklevitz, S.A.C., Zastepa, A., Tabatabaei Anaraki, M., Sibley, P.K. (2022). Human health risks from consuming freshwater fish caught during all life stages of an algal bloom. (PhD work).
- Knight, A.K.*[†], **Shahmohamadloo, R.S.***, Rudman, S.M., Bhavsar, S.P., Ortiz Almirall, X., Sibley, P.K. (2022). Evidence for the Transgenerational Development in *Daphnia* Tolerance Towards *Microcystis*. (PhD work).
- Rudman, S.M.*[†], **Shahmohamadloo, R.S.***, Westrick, J.A., De Meester, L., Fryxell, J.M. (2022). From genes to populations: intraspecific genetic variation in the sublethal effects of harmful algae. (PDF work).

Book Chapters

- 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). CABI, Oxfordshire, UK. (Collaboration during PDF).

GRANTS, FELLOWSHIPS, & AWARDS

Period held	Name of Grant/Fellowship, Location of Tenure	Value (CDN)
2022-2025	Liber Ero Postdoctoral Fellowship, Washington State University	\$155,000
2022-2024	NSERC Postdoctoral Fellowship, Washington State University*	\$90,000
2022	Mitacs Globalink Research Award, Washington State University	\$12,000
2020	Rockefeller Foundation Food System Vision Prize (Semi-Finalist) [†]	\$200,000
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 University of Guelph	\$1,000
2013	André Auger Citizenship Award, University of Guelph	
2011	URA Award, 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. Did not win grant but was selected as one of 75 semi-finalists from 1,300 applicants worldwide

INVITED TALKS

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

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

Panels Organized

2017	Harmful algal bloom toxins in biota of the Great Lakes, Canadian Ecotoxicity Workshop, University of Guelph, Ontario, Canada (October 1-4)
2017	The Science and Policy of Multiple Stressors and Cumulative Effects in the Great Lakes, IAGLR 60 th Conference (Virtual), Wayne State University, Michigan, USA (May 15-19)

Invited Panelist

2022 Researchers in the hot seat: challenges and lessons with applied cyanotoxin research, risk communication and stakeholder engagement, 12th International Conference on Toxic Cyanobacteria, Toledo, Ohio, USA (May 22-27)

2020 The state of Great Lakes research in the face of COVID-19, IAGLR 63rd Conference (Virtual), Winnipeg, Manitoba, 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, Ohio, 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, Michigan, 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, Oregon, 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, British Columbia, 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, Québec, 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, Michigan, 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, Texas, 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, Texas, USA. International Conference. Oral Presentation (PhD work).

Shahmohamadloo, R.S.*, Simmons, D.B.D., and Sibley, P.K. (2020) Shotgun proteomics analysis reveals sub-lethal effects in *Daphnia magna* exposed to cell-bound microcystins produced by *Microcystis aeruginosa*. IAGLR 63rd Conference (Virtual), Winnipeg, Manitoba, 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, Manitoba, 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, Leinster, 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, Ontario, 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, Ontario, 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, Ontario, 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, Ontario, 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, Ontario, 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, California, 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, Ontario, 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, Ontario, 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, Ontario, 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, Ontario, 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, Alberta, 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, Utah, 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, Ontario, 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

Mentoring Research Projects

Period	Name of Student and Degree, Project Summary (Career Stage when I Advised Student)
2021-2022	Julia Bourdeau BSc, <i>Daphnia</i> plasticity impacts from toxic <i>Microcystis</i> (PDF)
2021-2022	Megan Braun BSc, <i>Daphnia</i> plasticity impacts from toxic <i>Microcystis</i> (PDF)
2021-2022	Mathew Mervyn BSc, <i>Daphnia</i> movement impacts from toxic <i>Microcystis</i> (PDF)
2020-2021	Megan Duchesne BSc, <i>Daphnia</i> intraspecific diversity to toxic <i>Microcystis</i> (PhD)
2020-2021	Kennedy Hanczyk BSc, <i>Daphnia</i> intraspecific diversity to toxic <i>Microcystis</i> (PhD)
2020-2021	Talia Hoffman BSc, <i>Daphnia</i> intraspecific diversity to toxic <i>Microcystis</i> (PhD)
2020-2021	Rebecca Smart BSc, <i>Daphnia</i> intraspecific diversity to toxic <i>Microcystis</i> (PhD)
2019-2020	Gabrielle Hankins BSc, Rainbow Trout health impacts to toxic <i>Microcystis</i> (PhD)
2019-2020	Kate Hubbs BSc, Rainbow Trout health impacts to toxic <i>Microcystis</i> (PhD)
2019-2020	Polina Konopelko BSc, Rainbow Trout health impacts to toxic <i>Microcystis</i> (PhD)
2019-2020	Michael Sanarcki BSc, Rainbow Trout health impacts to toxic <i>Microcystis</i> (PhD)
2019-2020	Damon Strong BSc, Rainbow Trout health impacts to toxic <i>Microcystis</i> (PhD)
2019-2020	Angela Vander Eyken BSc, Rainbow Trout health impacts to toxic <i>Microcystis</i> (PhD)
2018-2020	Alexis Knight MSc, <i>Daphnia</i> multigenerational adaptation to (non-)toxic <i>Microcystis</i> (PhD)
2018-2019	Samantha Gene BSc, Freshwater mussel health impacts to toxic <i>Microcystis</i> (PhD)

RESEARCH EXPERIENCE

Period	Position, Location of Tenure (Advisors)
2022-2025	Liber Ero Postdoctoral Fellow, School of Biological Sciences, Washington State University (Rudman SM, Fryxell, JM)
2022-2024	NSERC Postdoctoral Fellow, School of Biological Sciences, Washington State University (Rudman SM)
2021-2022	Postdoctoral Fellow, Department of Integrative Biology, University of Guelph (Fryxell JM)
2016-2021	Graduate Researcher (PhD), Ontario Ministry of the Environment, Conservation and Parks (Sibley PK, Bhavsar SP, Ortiz Almirall X, Simmons DBD, Watson-Leung T, Poirier DG)
2016	Research Technician, University of Guelph (Sibley PK)
2014-2016	Graduate Researcher (MSc), University of Guelph (Sibley PK)

2011 Undergraduate Research Assistant, University of Guelph (Auzanneau FI)

SERVICE TO PROFESSION

Departmental

2018-2020 Undergraduate Curriculum Committee, SES, University of Guelph
 2016-2020 Communications and Outreach Committee, SES, University of Guelph
 2016-2020 Organizing Committee for Kenneth Hammond Lecture, SES, University of Guelph
 2017-2018 Search Committee for Assistant Professor, SES, University of Guelph

External

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

Referee

2017-present Aquatic Toxicology (1), 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 (2), Freshwater Biology (1), Harmful Algae (2), Journal of Hazardous Materials (4), Journal of Industrial and Engineering Chemistry (1), Marine and Freshwater Behaviour Physiology (1), Neurotoxicity Research (1), Science of the Total Environment (20), Toxicon (2)

Grant Reviewer

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

COMMUNITY INVOLVEMENT/OUTREACH

2015-2016 Guest Teacher, Westwood Public School, Upper Grand District School Board, Ontario, Canada. Mentored 50 seventh and eighth grade students using course materials below.
 2013-2015 Guest Teacher, Gateway Drive Public School, Upper Grand District School Board, Ontario, Canada. Mentored 53 seventh and eighth grade students using course materials below.
 2007-2016 Mentor and Trainer, Junior Youth Empowerment Program, Guelph, Ontario, Canada. This program consists of course materials designed to help 11-15 year-old participants develop their capacity to make observation statements about the physical and social realities of their community, and from these statements identify ways to contribute to its progress through service projects.

MEDIA COVERAGE

2022 University of Guelph News. [Two U of G Post-Doctoral Researchers Awarded Liber Ero Fellowships.](#)
 2021 University of Guelph News. [Algal Blooms Harmful Year-Round, Not Just in Summer, U of G Study Finds.](#)
 2020 Farmtario. [University proposal among food system prize semifinalists.](#)
 2020 University of Guelph News. [PhD Candidate Pens Commentary for Science.](#)
 2020 University of Guelph News. [U of G Future Food Vision a Semi-Finalist for International Prize.](#)
 2020 One Health Institute, University of Guelph. [Student Spotlight: René Sahba Shahmohamadloo.](#)
 2020 School of Environmental Sciences, University of Guelph. [New research shows invertebrates can be harmed by cyanobacteria.](#)
 2018 Council of Ontario Universities. [Research Matters: Fourth-year course builds partnerships between students and communities.](#)

- 2016 Influents. Municipal Biosolids Beneficial Use Education Day. p. 69.
- 2016 The AgriNews. Triclosan not a threat. p. 37.
- 2016 Ontario Farmer. Off-cited biosolids risk disproven. p. B19.
- 2016 AGCanada. Triclosan not a threat to food chain: study addresses concerns about treated sewage as fertilizer.

LANGUAGES

- English Native proficiency
- French Limited working proficiency
- Persian Limited working proficiency

PROFESSIONAL MEMBERSHIPS

- 2021-present Member, Canadian Society for Ecology and Evolution
- 2017-present Member, International Association for Great Lakes Research
- 2015-present Member, Society of Environmental Toxicology and Chemistry for North America
- 2015-present Member, Laurentian Chapter for the Society of Environmental Toxicology and Chemistry

PROFESSIONAL DEVELOPMENT

- 2020 Principles of Belonging: Anti-Oppression and Anti-Racism Training, University of Guelph
- 2019 Graduate Research and Project Management (Certificate course), University of Guelph
- 2018 University Teaching: Theory and Practice (Credit course), University of Guelph
- 2017 Diversity and Human Rights Faculty Recruitment, University of Guelph
- 2017 Laboratory Technician Training, Aquatic Toxicology Unit, Ministry of the Environment, Conservation and Parks