

# RENÉ SAHBA SHAHMOHAMADLOO

## 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

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

## PUBLICATIONS (\*denotes undergraduate student)

### 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., Ortiz Almirall, X., Rochman, C.M., **Shahmohamadloo, R.S.**, Orihel, D.M. (2022). Sorption of a common freshwater cyanotoxin to microplastics. *Water Air Soil Poll.* (PhD work). IF = 2.52

### Manuscripts in Preparation

**Shahmohamadloo, R.S.**, Bhavsar, S.P., Ortiz Almirall, X., Marklevitz, S.A.C., Zastepa, A., Tabatabaei Anaraki, M., Sibley, P.K. (2021). Human health risks from consuming freshwater fish caught during all life stages of an algal bloom. (PhD work).

Knight, A.K., **Shahmohamadloo, R.S.**, Bhavsar, S.P., Ortiz Almirall, X., Sibley, P.K. (2021). Evidence of a transgenerationally developed microcystin toxin tolerance in *Daphnia magna*. (PhD work).

**Shahmohamadloo, R.S.**, Rudman, S.M., Fryxell, J.M. (2021). 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). Disease 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)
2022-2024	Liber Ero Postdoctoral Fellowship, Washington State University	\$155,000
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 <sup>nd</sup> 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	

\*Co-PI. Did not win grant but was selected as one of 75 semi-finalists from 1,300 applicants worldwide

### INVITED TALKS

2021 Assessing the risks to human and animal health from freshwater harmful algal blooms, School of Environmental Sciences, University of Guelph. Ontario, Canada (October 22)

2021 Assessing the non-lethal impacts to fish from freshwater harmful algal blooms, Lake Erie Management Fisheries Zone 19 Meeting, Ontario, Canada (October 5)

- 2021 Towards a coherent framework for understanding the biology of harmful algal blooms, Lake Erie Partnership Working Group, Ontario, Canada (May 19)
- 2021 Human health risks to cyanotoxins from consuming fish caught in Lake St. Clair, Ontario Ministry of Natural Resources and Forestry, Ontario, Canada (May 10)
- 2021 The toxicology of microcystins in freshwater organisms of the Great Lakes, Department of Biology, Queen's University, Ontario, Canada (February 4)
- 2020 Reimagining Food Systems: Driving Action for a Post-COVID World, Rockefeller Foundation and EAT Foundation, Oslo, Norway (June 30)
- 2018 *Microcystis aeruginosa* impacts aquatic biota: Risks to Great Lakes users, Ontario Federation of Anglers and Hunters Fisheries Advisory Committee, Ontario, Canada (September 7)

## CONFERENCE ACTIVITY/PARTICIPATION

### Conferences/Symposia Organized

- 2022 12<sup>th</sup> 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<sup>th</sup> Interdisciplinary Freshwater Harmful Algal Blooms Workshop, Ontario, Canada, 100-150 participants (April 20-22) - cancelled due to Covid-19
- 2019 3<sup>rd</sup> Interdisciplinary Freshwater Harmful Algal Blooms Workshop, Ontario, Canada, 100-150 participants (April 24-26)
- 2018 2<sup>nd</sup> 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<sup>th</sup> Conference (Virtual), Wayne State University, Michigan, USA (May 15-19)

### Invited Panelist

- 2020 The state of Great Lakes research in the face of COVID-19, IAGLR 63<sup>rd</sup> Conference (Virtual), Winnipeg, Manitoba, Canada (June 9-11)

### Conference Presentations (\*denotes presenting author)

**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 42<sup>nd</sup> 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

64<sup>th</sup> 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 41<sup>st</sup> 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 41<sup>st</sup> 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 63<sup>rd</sup> 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 63<sup>rd</sup> 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 28<sup>th</sup> 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 40<sup>th</sup> 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 40<sup>th</sup> 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 40<sup>th</sup> 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 3<sup>rd</sup> 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 39<sup>th</sup> 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 61<sup>st</sup> 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 2<sup>nd</sup> 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 2<sup>nd</sup> Annual Meeting, Toronto, Ontario, Canada. International Conference. Oral Presentation (PhD work).

Simmons, D.B.D.\*, **Shahmohamadloo, R.S.**, Tabatabaei 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 36<sup>th</sup> 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 41<sup>st</sup> Annual Meeting, Ottawa, Ontario, Canada. National Conference. Oral Presentation (MSc work).

## TEACHING EXPERIENCE

### Courses Taught

2017-2019 Teaching Assistant. Project in Environmental Sciences (ENVS4001, ENVS4002), 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, *Daphnia* plasticity impacts from toxic *Microcystis* (PDF)

2021-2022 Megan Braun BSc, *Daphnia* plasticity impacts from toxic *Microcystis* (PDF)

2021-2022 Mathew Mervyn BSc, *Daphnia* movement impacts from toxic *Microcystis* (PDF)

2020-2021 Megan Duchesne BSc, *Daphnia* intraspecific diversity to toxic *Microcystis* (PhD)

2020-2021 Kennedy Hanczyk BSc, *Daphnia* intraspecific diversity to toxic *Microcystis* (PhD)

2020-2021 Talia Hoffman BSc, *Daphnia* intraspecific diversity to toxic *Microcystis* (PhD)

2020-2021 Rebecca Smart BSc, *Daphnia* intraspecific diversity to toxic *Microcystis* (PhD)

2019-2020 Gabrielle Hankins BSc, Rainbow Trout health impacts to toxic *Microcystis* (PhD)

2019-2020 Kate Hubbs BSc, Rainbow Trout health impacts to toxic *Microcystis* (PhD)

2019-2020 Polina Konopelko BSc, Rainbow Trout health impacts to toxic *Microcystis* (PhD)

2019-2020 Michael Sanarcki BSc, Rainbow Trout health impacts to toxic *Microcystis* (PhD)

2019-2020 Damon Strong BSc, Rainbow Trout health impacts to toxic *Microcystis* (PhD)

2019-2020 Angela Vander Eyken BSc, Rainbow Trout health impacts to toxic *Microcystis* (PhD)

2018-2020 Alexis Knight MSc, *Daphnia* multigenerational adaptation to (non-)toxic *Microcystis* (PhD)

2018-2019 Samantha Gene BSc, Freshwater mussel health impacts to toxic *Microcystis* (PhD)

## RESEARCH EXPERIENCE

Period Position, Location (Advisors)

- 2016-2021 Graduate Researcher (PhD). Ministry of the Environment, Conservation and Parks (Sibley PK, Poirier DG, Bhavsar SP, Ortiz Almirall X, Simmons DBD, Watson-Leung T)
- 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, School of Environmental Sciences, University of Guelph
- 2016-2020 Communications and Outreach Committee, School of Environmental Sciences, University of Guelph
- 2016-2020 Organizing Committee for Kenneth Hammond Lecture & Spring Sustainability Symposium, University of Guelph
- 2019 Organizing Committee for Departmental 10<sup>th</sup> Anniversary, School of Environmental Sciences, University of Guelph
- 2017-2018 Search Committee, School of Environmental Sciences, 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 (14), Environmental Pollution (5), Environmental Science and Pollution Research (2), Freshwater Biology (1), Harmful Algae (1), Journal of Hazardous Materials (4), Journal of Industrial and Engineering Chemistry (1), Neurotoxicity Research (1), Science of the Total Environment (19), Toxicon (2)

## 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

- 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