

## Curriculum Vitae

March 2022

<b>NAME</b>	Kimber Munford	
<b>CITIZENSHIP</b>	Canadian Citizen	
<b>DEGREES</b>	PhD started 2019 Expected completion: 2023	Environmental Sciences University of Guelph Guelph, ON, Canada 50 Stone Rd E, N1G 2W1
	M.Sc. 2019 Specialization: Ecosystem Biogeochemistry	Environmental and Life Sciences Trent University Peterborough, ON, Canada, 1600 W Bank Drive, K9J 0G2
	B.Sc. (Honours) 2017 Major: Biology Minor: Geography	Department of Biology University of Winnipeg Winnipeg, MB, Canada 515 Portage Ave, R3B 2E9

### THESES

**Patterns of Vegetation Succession on Ni-Cu Mine Tailings Near Sudbury, ON**

M.Sc. Trent University, **2019**

**Seasonal Distribution of the Neurotoxin  $\beta$ -N-Methylamino-L-alanine (BMAA) in Lake Winnipeg, Canada**

B.Sc. (Honours) University of Winnipeg, **2016**

### AWARDS AND SCHOLARSHIPS

**NSERC Canada Graduate Scholarships – Doctoral (CGS-D)** Guelph University **2021-2024**

**Queen Elizabeth II Graduate Scholarship in Science and Technology** Guelph University **2021-2022 School Year** (Offered but not accepted)

**Queen Elizabeth II Graduate Scholarship in Science and Technology** Guelph University **2020-2021 School Year**

**Mary Edmunds Williams Scholarship** Ontario Agricultural College, Guelph University **2019**

**1<sup>st</sup> Place – Graduate Student Oral Presentation** International Conference on Heavy Metals in the Environment Athens, Georgia **July 2018**

## Curriculum Vitae

**2<sup>nd</sup> Place – Oral Presentation** International Institute for Environmental Studies Graduate Student Forum Hong Kong **Nov 2017**

**Dean's Honour List – Student of Highest Distinction** University of Winnipeg **2015-2017**

**Dean's Honour List – Student of Distinction** University of Winnipeg **2014-2015**

**University of Winnipeg Entrance Award** University of Winnipeg **2012**

**Portage Mutual Agent's Association Bursary** Morris School **2012**

## EMPLOYMENT HISTORY

**Graduate Teaching Assistant** University of Guelph, Guelph, ON **2020-Present**

Leading seminars, marking assignments and papers, and meeting with students outside of class-time.

**CUPE 3908 Unit 2 VP** Trent University, Peterborough, ON **2018-2019**

Attending executive meetings and trainings, organizing information sessions for members, forming coalitions with local political and labour organizations, responding to labour/rights inquiries from graduate teaching assistants.

**Graduate Teaching Assistant** Trent University, Peterborough, ON **2017-2019**

Leading seminars, marking assignments and papers, attending field exercises, and meeting with students outside of class-time.

**Biology Tutor** Trent University, Peterborough, ON **2017-2019**

Assisting students with biology assignments, editing papers, helping students better understand course materials.

**Lab Demonstrator** University of Winnipeg Biology Department, Winnipeg, MB **2016-Present**

Marking assignments, helping students understand class material, performing experiments for students who cannot make it to class.

**Transcriber** University of Winnipeg Deaf and Hard-of-Hearing Services, Winnipeg, MB **2016-Present**

Transcribing notes for deaf or hard-of-hearing science students, helping students when they do not understand subject matter and providing prompt and easy-to-read notes to the students.

**Cash Manager** University of Winnipeg Bookstore, Winnipeg, MB **2013-Present**

Customer service (working on tills, helping students and parents find books and textbooks), repositioning and stocking books on shelves, training temporary recruits for fall and winter rush, opening and closing the store, cashing out, identifying and fixing issues with cash registers, providing feedback to temporary employees.

## Curriculum Vitae

**Technical Assistant** City of Winnipeg Insect Control Branch, Winnipeg, MB **2016**

Working independently identifying mosquito larvae, reporting larval counts, and performing minor larviciding.

### TEACHING EXPERIENCE

**Co-lecturer** University of Guelph **2022**

**ENVS-2310** – Introduction to Biogeochemistry

**Graduate Teaching Assistant** University of Guelph **2019-Present**

**ENVS-2310** – Introduction to Biogeochemistry

**ENVS-4001/2** – Project in Environmental Sciences

**Graduate Teaching Assistant** Trent University **2017-2019**

**ERSC-1020** – Cases in Environmental Science/Studies

**EGEO-2000** – Field Methods in Environmental Geoscience

**ERST-3120** – Canadian Environmental Policy

**ERST-3551** – Pollution Ecology

**Laboratory Demonstrator** University of Winnipeg **2016-2017**

**BIOL 3901** – Microorganisms and Disease, 2016 and 2017 sections

**BIOL 1116** – Evolution, Ecology, and Biodiversity

**BIOL 2902** – Biology of Bacteria and Archaea

**BIOL 3410** – Freshwater Ecology

**BIOL 1116** – Evolution, Ecology, and Biodiversity, tutorial section

### RESEARCH INTERESTS

My primary research interests lie in the ecology of contaminated environments, including areas damaged by mining, smelting, and agriculture. I am interested in investigating the complex connections between vegetation, microbes, and soil/water chemistry in harsh environments.

### RESEARCH CONTRIBUTIONS

#### REFEREED JOURNALS

**Munford, Kimber E.**, Asemaninejad, A., Basiliko, N., Nadia, C.S., Glasauer, S., McGarry, S., Watmough, S.A., 2021. Native plants facilitate vegetation succession on amended and unamended mine tailings. *International Journal of Phytoremediation*. 0, 1–12.  
<https://doi.org/10.1080/15226514.2021.1987382>

**Munford, Kimber E.**, Casamatta, M., Basiliko, N., Glasauer, S., Mykytczuk, N.C.S., Watmough, S.A., 2021. Paper Birch (*Betula papyrifera*) Nutrient Resorption Rates on Nutrient-Poor Metal-Contaminated Soils and Mine Tailings. *Water, Air, & Soil Pollution*. 232, 33.  
<https://doi.org/10.1007/s11270-020-04975-3>

## Curriculum Vitae

**Munford, Kimber E.**, Watmough, S.A., Rivest, M., Poulain, A., Basiliko, N., Mykytczuk, N.C.S., 2020. Edaphic factors influencing vegetation colonization and encroachment on arsenical gold mine tailings near Sudbury, Ontario. Environmental Pollution. 264, 114680. <https://doi.org/10.1016/j.envpol.2020.114680>

Asemaninejad, A., **Munford, K.**, Watmough, S., Campbell, D., Glasauer, S., Basiliko, N., Mykytczuk, N., 2020. Structure of microbial communities in amended and unamended acid-generating mine wastes along gradients of soil amelioration and revegetation. Applied Soil Ecology. 155, 103645. <https://doi.org/10.1016/j.apsoil.2020.103645>

Pip, E., **Munford, K.**, Bowman, L. (2016). Seasonal Nearshore Occurrence of the Neurotoxin  $\beta$ -N-Methylamino-L-alanine (BMAA) in Lake Winnipeg, Canada. Environment and Pollution. Vol. 5 No. 1:110-118. DOI: <http://dx.doi.org/10.5539/ep.v5n1p110>

### CONFERENCE PRESENTATIONS, ABSTRACTS

Panelist **Scientista of Guelph Women in STEMM Conference 2022**

Exploring vegetation succession on Ni-Cu mine tailings through vegetation groupings **Mining and the Environment International Conference 2019**

Factors Controlling Vegetation Succession and Establishment on Ni-Cu Mine Tailings Near Sudbury, ON **International Conference on Heavy Metals in the Environment 2018**

Plant Succession on Ni-Cu Tailings Near Sudbury, Canada **IIES 2<sup>nd</sup> Graduate Student Forum 2017**

Seasonal Distribution of the Neurotoxin BMAA in Lake Winnipeg, Canada **PUBS 2016**

### TRAINING

Graduate Research and Project Management Course **University of Guelph 2022**

University Teaching Foundations Program **University of Guelph 2021-2022**

### EXTRACURRICULAR ACTIVITIES

School of Environmental Sciences Representative, University of Guelph GSA **2021-Present**

University of Guelph Neurodivergent/Disabled Grad Student Coalition Organizer **2022-Present**

University of Guelph Mental Health Committee Member **2021-Present**

University of Guelph Student Wellness Committee Member **2021-Present**

Judge, Scinapse Science Undergraduate Student Case Competition **2022**

Trent University Mental Health Advisory Committee Member **2019**

## Curriculum Vitae

CUPE Local 3908 Unit 2 VP **2018-2019**

Seasoned Spoon Board Member **2018-2019**

President of the Biology Students' Association, University of Winnipeg **2016-2017**

Co-director of the Science Gala Planning Committee, University of Winnipeg **2016-2017**

Secretary of the Biology Students' Association, University of Winnipeg **2015-2016**

Member at Large of the Wildlife Society, University of Winnipeg Chapter **2015**

Volunteer at PUBS (Prairie Universities Biology Symposium) **2015**

Executive Member/Policy Director of the MYND (Manitoba Young New Democrats) **2014-2015**

Executive member of the UWND (University of Winnipeg New Democrats) **2012-2015**

Vice President of Morris School Student Council **2011-2012**

Blood donor recruiter for Canadian Blood Services **2011-2012**

## REFERENCES

### **Shaun Watmough**

Professor (Master's Thesis Supervisor) and Director, Trent University School of the Environment  
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Peterborough, ON, K9J 0G2  
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### **Susan Glasauer**

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