Garland Xie

Urban Ecologist

Curriculum Vitae August 2019 Department of Biology, Saint Mary's University, B3H 2N8, Canada

garlandxie.netlify.com

+1 647 330 8154

garland.xie@smu.ca

@garlandxiegarlandxie

in garlandxie

Education

2017 Honours Bachelor of Science University of Toronto2019 Master of Applied Science Saint Mary's University

Publications

- 1. Xie, G, JT Lundholm, and J Scott MacIvor (2018). Phylogenetic diversity and plant trait composition predict multiple ecosystem functions in green roofs. *Science of The Total Environment* **628-629**, 1017–1026.
- 2. MacIvor, JS, N Sookhan, CA Arnillas, A Bhatt, S Das, SLE Yasui, G Xie, and MW Cadotte (2018). Manipulating plant phylogenetic diversity for green roof ecosystem service delivery. *Evolutionary Applications* **11**(10), 2014–2024.

Grants and Fellowships

2018-2019	Nova Scotia Graduate Scholarship (Renewal)	\$ 10,000
2018	Clean Foundation Scholarship	\$ 2,000
2017-2018	NSERC CGS-M Alexander Graham Bell Canada Graduate Scholarship	\$ 17,500
2017	Nova Scotia Graduate Scholarship	\$ 2,500
2017	TD Undergraduate Research Opportunity Scholarship	\$ 5,000

Honours and awards

2018	3MT Competition (Runner-Up)	\$ 500
2017	ESA Real Brown Travel Award	\$ 75
2012	DAREarts Leadership Award	\$ 500

Conference Presentations

Invited Talks

- ➤ MacIvor JS, Xie G. 2017. Functional and phylogenetic filtering of an urban wild beencommunity. Protecting Pollinators in Urban Landscapes Conference. Traverse City, MI, USA.
- ➤ Lundholm JT, Heim A, Williams N, Xie G, MacIvor JS. 2017. Engineering improved ecosystem function using plant traits and environmental heterogeneity. INTERCOL Beijing. Beijing, China

Contributed Talks

- ➤ Xie G, MacIvor JS, Carscadden K, Sookhan N, Cadotte MW. 2017. Functional and phylogenetic structure of urban wild bee communities. 102th Meeting of the Ecological Society of America. Portland, OR, USA
- ➤ MacIvor JS, Arnillas CA, Sookhan N, Xie G, Cadotte MW. 2017. Phylogenetic diversity and the functioning of green roofs. INTERCOL Beijing, China
- ➤ MacIvor JS, Xie G, Carscadden K, Sookhan N. 2017. Functional and phylogenetic diversity but not species richness increases with urbanization in a wild bee community. Ecology Across Borders: Joint Annual Meeting 2017. Ghent, Belgium

Teaching Experience

Saint Mary's University

2019	Teaching Assistant	Ecosystems
2019	Teaching Assistant	Plant Ecology
2019	Workshop Host	Introduction to R Programming
2019	Workshop Host	Exploratory Data Analysis
2019	Workshop Host	Introduction to Statistical Modelling
2019	Workshop Host	What they forgot to teach you in R
2018	Teaching Assistant	Ecology
2018	Teaching Assistant	Organismal and Ecological Biology
2017	Teaching Assistant	Biostatistics
2017	Teaching Assistant	Plant Taxonomy and Identification

Curriculum Vitae: Garland Xie 2

University of Toronto

2017 Teaching Assistant GGRA30H3S (Geographic Information Systems and Empirical Reasoning)

2017 Teaching Assistant GGRB32H3S (Fundamentals of GIS II)

Professional Experience

2019 Graduate Statistics Mentor
2017 Field Research Technician
2017 Lab Research Assistant
2018 Field Research Assistant
2019 Graduate Statistics Mentor
2010 Saint Mary's University
2011 University of Toronto Scarborough
2012 University of Toronto Scarborough
2013 University of Toronto Scarborough
2014 University of Toronto Scarborough
2015 Field Research Assistant

Reviewer History

2019 Applied Soil Ecology2019 Urban Ecosystems

Media Coverage

➤ "These tiny green islands are designed to help Toronto's aging stormwater system", U of T News, Aug 17, 2017

➤ "Connecting undergrads with research opportunities at U of T and beyond". U of T News, March 7, 2016

Professional Development

2018	STEMfest 2018: Science Communication Workshop	Halifax, Canada
2019	Non-linear Modeling in R with GAMs	DataCamp
2019	Hiearchial and Mixed Effects Models	DataCamp
2018	Introduction to Git for Data Science	DataCamp