Erik Dean – Curriculum Vitae

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Education

PhD 2018 − 2023 [†]	University of Toronto Scarborough Physical and Environmental Sciences Advisors: Nicholas E. Mandrak, D. Andrew R. Drake
MEnvSc 2016 – 2017	University of Toronto Scarborough Physical and Environmental Sciences
HBSc 2010 – 2015	University of Toronto St. George Ecology and Evolutionary Biology

* Anticipated year of completion

Research Experience

2018	Aquatic science biologist at Fisheries and Oceans Canada , Burlington ON. Great Lakes Laboratory for Fisheries and Aquatic Sciences
2017	Independent contractor for Fisheries and Oceans Canada , Burlington ON. Great Lakes Laboratory for Fisheries and Aquatic Sciences
2017	Research assistant at University of Toronto Scarborough , Toronto ON. Centre for Environmental Epigenetics and Development, Boonstra Laboratory
2017	Research assistant at University of Toronto Scarborough , Toronto ON. Mandrak Laboratory
2014	Volunteer research assistant at University of Toronto St. George , Toronto ON. Agrawal Laboratory
2012	Volunteer research assistant at University of Toronto St. George , Toronto ON. Frederickson & Weis Laboratories

Teaching Experience

Teaching assistant at University of Toronto Scarborough:

Fall 2018 – 2022	EES1111 – Freshwater Ecology and Biomonitoring Field instructor, tutorial lecturer, lab demonstrator, coursework development, office hours
Winter	EES1137 – Quantitative Applications for Data Analysis
2019 – 2023	Assignment grading and feedback, tutoring by appointment

Guest Lectures:

 Bighead Carp — Populations, invasion, and climate change BIO 3SS3 – Population Ecology, University of McMaster Invited by Phoebe Edwards March 29th, 2023

 Climate change & aquatic ecology EES 1111 – Freshwater ecology and biomonitoring, University of Toronto Invited by Jan Moryk October 17th, 2022

Workshops:

- R webseries for fisheries analysis Jacob Burbank, Justin Hubbard, Erik Dean American Fisheries Society Ontario Chapter Student Subunit, 2022
- Student success workshop (four week introductory programming web series) Jacob Burbank, Justin Hubbard, Erik Dean American Fisheries Society Ontario Chapter Student Subunit, 2020

Publications

- Non-linear effects on the population performance of Bighead Carp under different maturation schedules Erik K. Dean, D. Andrew R. Drake, Nicholas E. Mandrak. Biological Invasions, 2023
- Assessing space use in meadow voles: the relationship to reproduction and the stress axis Phoebe D. Edwards, Erik K. Dean, Rupert Palme, Rudy Boonstra. *Journal of Mammalogy*, 2019

Forthcoming:

Modelling invasion potential under climate change: effects of seasonal temperatures on a critical recruitment bottleneck

Erik K. Dean, D. Andrew R. Drake, Nicholas E. Mandrak.

Awards

2023	E.J. Crossman Award for Best Student Talk
\$250 cad	American Fisheries Society Ontario Chapter Annual General Meeting
2022	Teaching Assistant Award
\$350 cad	University of Toronto Scarborough, Physical and Environmental Sciences
2022	Best Talk in Category, Applied Science and Technology
\$350 cad	Doctoral Environmental Science Colloquium
2018	UTF Award (fully-funded PhD fellowship)
\$79,164 cad	University of Toronto Scarborough
2017	Asclepias Award
\$5000 cad	University of Toronto Scarborough

Total: \$85,114 CAD

Service, Leadership, and Professional Experience

2022 - 2023	Program ambassador — Master of Environmental Science Information Session University of Toronto Scarborough
2022 - 2023	Web designer — Mind and Spirit Youth Leadership 2019-2022 Impact Report Scarborough Centre for Healthy Communities
2022	Aquatic ecology exhibitor — Master of Environmental Science Program Open House University of Toronto Scarborough
2020	President — Graduate Students Association at Scarborough University of Toronto Scarborough
2020	Mantis advisor — Source to Sea, Great Lakes Untamed (Episode 1) TVO Today & Smithsonian Channel
2019	Sports representative — Graduate Students Association at Scarborough University of Toronto Scarborough
2019	Member — Athletic Advisory Committee University of Toronto Scarborough
2019	Member — Healthy Learning and Working Environment Working Group University of Toronto Scarborough Strategic Plan 2019
2018	Electrofishing crew leader, fish taxonomy survey — Ontario BioBlitz
2016	Technical lead — Turnkey Aquaponics
2013 - 2015	Volunteer coordinator — English Language Program Ontario Institute for Studies in Education, University of Toronto, St. George
2012 – 2013	Cultural assistant — English Language Program Ontario Institute for Studies in Education, University of Toronto, St. George
2012 – 2013	Executive and founding member — Feminist Engagement with Men* and Masculinities University of Toronto, St. George

Invited Talks:

 Ecologically conscious pickings: Foraging weeds and invasive plants CultureLink Settlement Services - Newcomer Gardening Workshop Series Invited by Lily Krowiak October 6th, 2021

- Update on Canadian Asian Carp research: Potential effects of climate change 2021 Ontario Invasive Species Virtual Forum Hosted by Invasive Species Centre & Ontario Ministry of Natural Resources and Forestry Invited by Rebecca Schroeder March 3rd, 2021
- 3. The next step, and some tips to keep one step ahead (seminar for high school students preparing for university)
 Woburn Collegiate Institute
 Invited by Christina Mohan-Eustace
 November 30th, 2018

Contributed Talks

- Bighead Carp overwintering under climate change Spawning, survival, and implications for invasion *American Fisheries Society Ontario Chapter Annual General Meeting* Severn Bridge, Ontario, Canada March 2023
- Out of the bottleneck: Bighead Carp spawning and overwinter survival in a warming climate Society of Canadian Aquatic Sciences Annual Meeting Montreal, Quebec, Canada February 2023
- Population performance of Bighead Carp under different ages of maturity Joint Aquatic Sciences Meeting Grand Rapids, Michigan, USA May 2022
- Bighead Carp in changing climates: Changing maturation ages and population performance International Conference on Aquatic Invasive Species Oostend, Belgium April 2022
- 5. Exploring establishment potential of Bighead Carp in the Canadian Great Lakes under climate change American Fisheries Society Ontario Chapter Annual General Meeting Orillia, Ontario, Canada February 2020

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- $\cdot LAT_EX$
- \cdot Python
- \cdot Bash / Linux shell
- · Data Visualization
- \cdot Class 2 Backpack Electrofishing
- \cdot SciNet Certificate in Data Science
- \cdot Ontario Benthos Biomonitoring Network Certificate
- · Royal Ontario Museum Ontario Fish Identification Workshop

2023 🔺 <u>Erik Dean</u>