## Erik Dean – Curriculum Vitae

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#### **Education**

**PhD** University of Toronto, Scarborough 2018 – 2023 Physical and Environmental Sciences

Advisors: Nicholas E. Mandrak, D. Andrew R. Drake

MEnvScUniversity of Toronto, Scarborough2016 - 2017Physical and Environmental Sciences

**HBSc** University of Toronto, St. George 2010 – 2015 Ecology and Evolutionary Biology

#### **Publications**

1. 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

2. 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

## **Contributed Talks**

1. 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

2. Out of the bottleneck: Bighead Carp spawning and overwinter survival in a warming climate *Society of Canadian Aquatic Sciences Annual Meeting*Montreal, Quebec, Canada

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February 2023

 Population performance of Bighead Carp under different ages of maturity *Joint Aquatic Sciences Meeting* Grand Rapids, Michigan, USA
 May 2022

4. 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

# **Research Experience**

2018	<b>Aquatic science biologist at Fisheries and Oceans Canada</b> , Burlington, ON. Great Lakes Laboratory for Fisheries and Aquatic Sciences
2017	<b>Independent contractor for Fisheries and Oceans Canada</b> , 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	<b>Volunteer research assistant at University of Toronto, St. George</b> , Toronto, ON. Agrawal Laboratory
2012	<b>Volunteer research assistant at University of Toronto, St. George</b> , Toronto, ON. Frederickson & Weis Laboratories

# **Teaching Experience**

Teaching assistant at University of Toronto, Scarborough:

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

#### **Awards**

2023	E.J. Crossman Award for Best Student Talk
	American Fisheries Society Ontario Chapter Annual General Meeting
2022	Teaching Assistant Award, Department of Physical and Environmental Sciences University of Toronto, Scarborough
2022	Best Talk in Category, Applied Science and Technology Doctoral Environmental Science Colloquium

### **Skills and Certifications**

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

# Service, Leadership, and Professional Experience

2022 – 2023	<b>Program ambassador</b> — 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	<b>Aquatic ecology exhibitor</b> — 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	<b>Sports representative</b> — Graduate Students Association at Scarborough University of Toronto, Scarborough
2019	Member — Athletic Advisory Committee University of Toronto, Scarborough
2019	<b>Member</b> — 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	<b>Executive and founding member</b> — Feminist Engagement with Men* and Masculinities University of Toronto, St. George

# 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

## Invited Talks and Guest Lectures:

 Bighead Carp — Populations, invasion, and climate change BIO 3SS3 – Population Ecology, University of McMaster Invited by Phoebe Edwards March 29th, 2023 Ecologically conscious pickings: Foraging weeds and invasive plants
 CultureLink Settlement Services - Newcomer Gardening Workshop Series
 Invited by Lily Krowiak
 October 6th, 2021

3. 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

4. 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