

# Braden J. Judson

Nanaimo, British Columbia  
June 2025

## Education

2022

### University of Guelph

M.Sc. in Biology

Thesis title: The role of neutral and adaptive evolutionary processes on patterns of genetic diversity across small cave-dwelling populations of Icelandic Arctic charr (*Salvelinus alpinus*).

Advised by Dr. Moira M. Ferguson

2019

### Vancouver Island University

B.Sc. in Biology

## Professional Experience

11/23

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Current

### Biologist

Department of Fisheries and Oceans Canada, Conservation 'Omics Laboratory

- Conducting bioinformatics analyses on multiple large-scale genomic and transcriptomic datasets centered around the conservation and management of Pacific salmonids

08/24

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Current

### Ecological Reserve Warden (Volunteer)

BC Parks at the Yellowpoint Bog Ecological Reserve

09/2022

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11/2023

### Aquatic Biologist

Department of Fisheries and Oceans Canada, Salmon in Regional Ecosystems Project

- Modelling hydrological and population ecology time series data and developing simple forecasting tools (e.g., scripts, R Shiny Apps)
- Drafting and editing technical documents and research manuscripts for internal DFO publications and the Canadian Science Advisory Secretariat

04/2023

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09/2023

### Field Naturalist

University of Victoria and Simon Fraser University's BC Parks iNaturalist Project

- Conducting photography-based biodiversity surveys through BC
- Working as a team to complete remote and long-term field work

09/2021

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04/2022

### Graduate Teaching Assistant

University of Guelph

- ZOOL\*4910: Integrative Vertebrate Biology, with Dr. Liz Mandeville
- BIOL\*1070: Discovering Biodiversity, with Dr. Lisa Robertson

04/2019

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08/2019

### Field Technician

Cowichan Valley Naturalists' Society's *Bring Back the Bluebirds Project*

- Monitoring the survival, reproduction, and behaviour of Western Bluebirds while coordinating a team of volunteers for stewardship and restoration activities
- Drafting technical reports and writing grant applications

## Contact Info

[BradenJudson95@gmail.com](mailto:BradenJudson95@gmail.com)

+1 250-802-2449

## Profiles

 [iNaturalist.com/BradenJudson](https://www.inaturalist.org/people/BradenJudson)

 [eBird.ca/BradenJudson](https://ebird.ca/BradenJudson)

 [github.com/BradenJudson](https://github.com/BradenJudson)

## References

Tim Healy, Ph.D

[timothy.healy@dfo-mpo.gc.ca](mailto:timothy.healy@dfo-mpo.gc.ca)

Research Scientist, Principal Investigator of the Conservation 'Omics Laboratory at DFO's Pacific Biological Station

Moira Ferguson, Ph.D

[mmfergus@uoguelph.ca](mailto:mmfergus@uoguelph.ca)

Professor Emeritus, University of Guelph

Brian Starzomski, Ph.D

[starzom@uvic.ca](mailto:starzom@uvic.ca)

Ian McTaggart Cowan Professor, University of Victoria  
BC Parks iNaturalist Project Co-chair

Eric Demers, Ph.D

[Eric.Demers@viu.ca](mailto:Eric.Demers@viu.ca)

Professor, Vancouver Island University

04/2018  
|  
09/2018

### Research Assistant

Vancouver Island University as part of Dr. Dan Baker's NSERC Discovery Grant studying thermal physiology of early life history white sturgeon (*Acipenser transmontanus*)

- Conducting experimental aquaculture techniques for sturgeon eggs, larvae and juveniles and conducting physiology experiments

04/2016  
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09/2017

### Field Technician

D.R. Clough Environmental Consulting

- Drafting permits and reports for ecological restoration and monitoring projects
- Safely performing remote field work inventorying salmonids and assessing fish habitats throughout BC

## Publications

2025

### Genetic Risks Associated with Sablefish Aquaculture in British Columbia, Canada

Canadian Science Advisory Secretariat, [Science Response 2025/014](#).

DFO 2025. Role: Lead author. Science leads: Kyle Wellband and Tim Healy.

2025

### Osoyoos Lake Sockeye Salmon (*Oncorhynchus nerka*) return abundance (1977-2023), adult age composition (1985-2023), and marine survival (1998-2021)

Canadian Manuscript Report of Fisheries and Aquatic Sciences:3282: vi + 49p.

Bailey, C.J., Stiff, H.S., Thompson, P.L., Judson, B.J., and Ogden, A.

2024

### Wild Salmon Policy Status, Limit Reference Point, and Candidate Escapement Goals for Okanagan Sockeye Salmon

Canadian Science Advisory Secretariat, [Science Advisory Report 2024/060](#).

DFO 2024. Role: Coauthor. Science lead: Athena Ogden.

2024

### The role of neutral and adaptive evolutionary processes on patterns of genetic diversity across small cave-dwelling populations of Icelandic Arctic charr, *Salvelinus alpinus*

Ecology and Evolution, 14:e11363, DOI: [10.1002/ece3.11363](#)

Judson, B.J., Kristjánsson, B.K., Leblanc, C. A-L., and Ferguson, M.M.

2023

### Age-composition, size, migration timing, and estimation of smolt to adult survival of natural-origin Sockeye Salmon (*Oncorhynchus nerka*) in the Wenatchee River (WA) watershed (1997 - 2019)

Canadian Manuscript Report of Fisheries and Aquatic Sciences: 3269: xii + 43p.

Judson, B.J., Willard, C., and Stiff, H.

2023

### Together for Wildlife Goal 2, Action 6: A Community Science Framework for Together for Wildlife.

Available from the Government of British Columbia's [Together for Wildlife - Goal 2 webpage](#).

Judson, B.J., Carr, J.K., and Starzomski, B.M.

## Presentations

March,  
2023

### BC Parks iNaturalist Project 2023: Highlight botanicals from Tweedsmuir Provincial Park

Victoria Natural History Society

📍 Virtual

February,  
2023

### The effects of neutral and adaptive evolutionary processes on genetic and phenotypic variation in small populations of Icelandic Arctic charr (*Salvelinus alpinus*)

Canadian Conference for Fisheries Research

📍 Vancouver, BC

February,  
2019

### Population demographics and diet content analysis of a residential population of Coastal Cutthroat Trout (*Oncorhynchus clarkii clarkii*) in upper Shelly Creek, Parksville, British Columbia

Pacific Ecology and Evolution Conference

📍 Bamfield, BC

## Awards

Spring  
2020

**Canada Graduate Scholarship - Master's Program**  
National Science and Engineering Research  
Council of Canada  
\$17,500 for 12 months

Spring  
2019

**David Gaumont-Guay Legacy Award**  
Vancouver Island University's Department of  
Biology  
\$1,000

Fall 2019

**Orville Erickson Memorial Fund  
Scholarship**  
Canadian Wildlife Federation  
\$1,500

Summer  
2018

**Ryan Cathers Memorial Award**  
Vancouver Island University's Department of  
Biology  
\$1,000

Summer  
2016

**George Alvin Fairhurst Memorial  
Scholarship**  
Vancouver Island University  
\$2,000

Summer  
2016

**Pacific Salmon Foundation Stewardship  
Community Bursary**  
Pacific Salmon Foundation  
\$2,000