

# Braden J. Judson

Nanaimo, British Columbia  
January 2025

## Education

2019	<b>Vancouver Island University</b> B.Sc. in Biology
2022	<b>University of Guelph</b> 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 ( <i>Salvelinus alpinus</i> ). Advised by Dr. Moira M. Ferguson

## Professional Experience

11/23   Current	<b>Biologist</b> Department of Fisheries and Oceans Canada, Conservation Genomics Laboratory <ul style="list-style-type: none"><li>Conducting bioinformatics analyses on multiple large-scale genomic and transcriptomic datasets centered around the conservation and management of Pacific salmonids</li></ul>
08/24   Current	<b>Ecological Reserve Warden (Volunteer)</b> BC Parks at the Yellowpoint Bog Ecological Reserve
09/2022   11/2023	<b>Aquatic Biologist</b> Department of Fisheries and Oceans Canada, Salmon in Regional Ecosystems Project <ul style="list-style-type: none"><li>Modelling hydrological and population ecology time series data and developing simple forecasting tools (e.g., scripts, R Shiny Apps)</li><li>Drafting and editing technical documents and research manuscripts for internal DFO publications and the Canadian Science Advisory Secretariat</li></ul>
04/2023   09/2023	<b>Field Naturalist</b> University of Victoria and Simon Fraser University's BC Parks iNaturalist Project <ul style="list-style-type: none"><li>Conducting photography-based biodiversity surveys through BC</li><li>Working as a team to complete remote and long-term field work</li></ul>
09/2021   04/2022	<b>Graduate Teaching Assistant</b> University of Guelph <ul style="list-style-type: none"><li>ZOOL*4910: Integrative Vertebrate Biology, with Dr. Liz Mandeville</li><li>BIOL*1070: Discovering Biodiversity, with Dr. Lisa Robertson</li></ul>
04/2019   08/2019	<b>Field Technician</b> Cowichan Valley Naturalists' Society's <i>Bring Back the Bluebirds Project</i> <ul style="list-style-type: none"><li>Monitoring the survival, reproduction, and behaviour of Western Bluebirds while coordinating a team of volunteers for stewardship and restoration activities</li><li>Drafting technical reports and writing grant applications</li></ul>

## Contact Info

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## 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 Genomics 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

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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

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](https://doi.org/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.

## Publications in Preparation

2024  
in prep

### Reconstruction of parr age composition for Sockeye Salmon (*Oncorhynchus nerka*) in Osoyoos Lake, Canada

PLoS One

Akenhead, S.A., and Judson, B.J

2023  
in prep

### Osoyoos Lake Sockeye Salmon (*Oncorhynchus nerka*) recruit abundance, adult age composition, and marine survival (1985 - 2019)

Canadian Manuscript Report of Fisheries and Aquatic Sciences

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

## 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