

Braden J. Judson

Nanaimo, British Columbia
August 2024

Education

2019

Vancouver Island University
B.Sc. in Biology

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

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

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+1 250-802-2449

Profiles

 [iNaturalist.com/BradenJudson](https://www.inaturalist.org/people/BradenJudson)
 [eBird.ca/BradenJudson](https://ebird.ca/BradenJudson)
 github.com/BradenJudson

References

Athena Ogden, Ph.D
athena.ogden@dfo-mpo.gc.ca
Acting of Head Salmon in Regional Ecosystems Project, DFO

Moira Ferguson, Ph.D
mmfergus@uoguelph.ca
Professor Emeritus, University of Guelph

Brian Starzomski, Ph.D
starzom@uvic.ca
Ian McTaggart Cowan Professor, University of Victoria
BC Parks iNaturalist Project Co-chair

Eric Demers, Ph.D
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