



Marta E. Ulaski, PhD

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Education

- 2021–2026 **PhD in Biological Sciences** (GPA 4.33/4.33)
Simon Fraser University, 8888 University Drive, Burnaby, BC V5A 1S6
Thesis: From land use to climate change: understanding cumulative effects of human activities on Pacific salmon
Relevant coursework: *Ecological Models and Data, Simulating and Modelling Natural Systems, Biostatistics*
- 2016–2019 **MSc. in Fisheries** (GPA 3.9/4.0)
Graduation, May 2019 University of Alaska Fairbanks, 2150 Koyukuk Drive, 245 O'Neill Building, P.O. Box 757220, Fairbanks, Alaska 99775-7720
Thesis: *Linking freshwater growth to size-dependent marine survival of sockeye salmon: interactions between processes of climate, density, and natural selection*
Relevant coursework: *Field Course in Salmon Management, Modern Applied Statistics for Fisheries, Fisheries Management, Quantitative Fish Population Dynamics, Ichthyology, Regression and Analysis of Variance, Fish Ecology*
- 2011–2015 **BSc. in Integrative Biology** (Honors equivalent; GPA 3.9/4.0)
May 2015 Concordia University of Edmonton, 7128 Ada Boulevard Edmonton, Alberta T5B 4E4
Relevant coursework: *Environmental Policy, Aquatic Biology, Advanced Research Method, Science Communication, Conservation Biology, Principles of Ecology*

Research Skills/Experience

- Sep. 2026–Present **Postdoctoral Researcher** at the University of Washington
- May 2021–Aug. 2026 **PhD Candidate** at Simon Fraser University – *From land use to climate change: understanding cumulative effects of human activities on Pacific salmon*
Supervisor: Dr. Jonathan Moore
- Jun. 2021–Jan. 2025 **Newsletter Editor** at Simon Fraser University – *Watershed Futures Initiative*
- Sep. 2019–Mar. 2021 **Research Scientist** at the University of Idaho – *Recovery goals for White Sturgeon in the Sacramento-San Joaquin River system, California*
Supervisor: Dr. Michael C. Quist
- May–Sep. 2019 **Field Technician** at University of Alaska Fairbanks – *Fire and climate change in boreal aquatic ecosystems*
- 2016–2019 **Research Assistant** at University of Alaska Fairbanks in Salmonid Evolutionary Ecology & Conservation Lab – *Linking marine and freshwater ecosystems through growth and survival of Alaska Sockeye Salmon*
Supervisor: Dr. Peter A. H. Westley



Aug.–Sep. 2018	Volunteer Remote Field Technician at University of Alaska Fairbanks – <i>Ecological interactions of wild and hatchery Pink Salmon in Prince William Sound, Alaska</i>
Apr.–Aug. 2018	Volunteer Diver/Field Technician at University of Alaska Fairbanks – <i>Seaweed reproduction and harvest rebound in Kachemak Bay, Alaska</i>
Jan.–May 2018	Teaching Assistant at University of Alaska Fairbanks – <i>Fundamentals of Biology I</i>
Summer 2016	Foreman at Wilderness Ranch, Claresholm, Alberta
Nov.–Feb. 2016	Science Presenter at TELUS World of Science Edmonton
May–June 2015	Summer Research Assistant at Concordia University of Edmonton – <i>Analysis of Westslope Cutthroat Trout diets in Alberta streams</i>
Summer 2012-15	Wrangler at Wilderness Ranch, Claresholm, Alberta
2014–2015	Independent Undergraduate Research Project at Concordia University of Edmonton – <i>Spatial and temporal variation of benthic macroinvertebrate communities in three Westslope Cutthroat Trout tributaries in the Rocky Mountains</i> Supervisor: Dr. Mariola Janowicz

Academic and Public Service

Professional Service

2017–Present	Member of American Fisheries Society
2026	Reviewer, Canadian Journal of Fisheries and Aquatic Sciences
2026	Expert, Gulf of Alaska Climate Variability Assessment by OSU
2021–2026	Science Team, Watershed Futures Initiative
2025	Reviewer, Canadian Journal of Fisheries and Aquatic Sciences
2024	Organizer/Chair, North American Congress on Conservation Biology, Salmon social-ecological systems in an era of global change and multiple stressors: from science to stewardship
2024	Reviewer, Endangered Species Research
2022–2024	Habitat Scientific Advisory Committee, Pacific Salmon Foundation
2023	Reviewer, Endangered Species Research
2022–2023	Facilitator, Stats Beers at Simon Fraser University
2022	Canadian Conference for Fisheries Research Symposium Co-chair, Cumulative Effects in Watersheds
2018	Volunteer, Western Division AFS Annual Meeting, Anchorage, AK
2017–2018	University of Alaska, American Fisheries Society Student Subunit President
2017	Volunteer, Alaska Chapter AFS Society Annual Meeting, Fairbanks, AK

Public Service

2024–2025	Board Member & Treasurer, South Sound Roller Derby
2025	Team Member, Malawi Orphan Care Project
2016-19, 2023-24	Cross-country Ski Coach, Fairbanks Junior Nordics



2014–2016

Piano Accompanist, Calvary Evangelical Lutheran Church Choir

Peer-reviewed publications

- Moore, J., **Ulaski, M.E.**, Wilson, K., Martin, T., Kuiper, S., Peacock, S., Braun, D., Naman, S., Pitman, K., Pitman, K., Reid, A., Rosenfeld, J., Sainsbury, N., Wilson, S., and Zdasiuk, B. **2025**. A safe operating space for salmon watersheds under rapid climate change. *Fish and Fisheries*. <https://doi.org/10.1111/faf.70027>
- Ulaski, M.E.**, Moore, J., Carlson, D., Taddei, K.F., Kriese, K., Griggs, J., Murray, C., Adams, M., Wilson, K., Reid, A., Sainsbury, N., Cannon, S., Griggs, E., and Martin, T. **2025**. Barriers and opportunities for the effective management of cumulative effects in salmon ecosystems in British Columbia, Canada. *FACETS*. <https://doi.org/10.1139/facets-2024-0348>
- Quist, M.C., Blackburn, S.E., **Ulaski, M.E.**, and Jackson, Z.J. **2025**. Long-term patterns in growth of White Sturgeon in the Sacramento-San Joaquin River Basin, California. *Frontiers in Freshwater Science* 3:1577065. <https://doi.org/10.3389/ffwsc.2025.1577065>
- Ulaski, M.E.**, J.L. McCormick, M.C. Quist, and Z.J. Jackson. **2023**. Leveraging angler effort to inform fisheries management: using harvest and harvest rate to estimate abundance of White Sturgeon. *Journal of Fish and Wildlife Management*. <https://doi.org/10.3996/JFWM-22-057>
- Ulaski, M.E.**, L. Warkentin, S. Naman, and J.W. Moore. **2023**. Spatially variable effects of streamflow on water temperature and thermal sensitivity within a salmon-bearing watershed in interior British Columbia, Canada. *River Research and Applications*. <https://doi.org/10.1002/rra.4200>
- Quist, M.C., **M.E. Ulaski**, K. Manuell, Z.J. Jackson, and T. Gatewood. **2023**. Precision of structures used to estimate age and growth of Apache Trout from the White Mountains of Arizona. *Journal of Fish and Wildlife Management*. <https://doi.org/10.3996/JFWM-22-021>
- Rosenfeld, J., P. Gonzalez-Espinosa, L. Jarvis, E. Enders, M. Bayly, A. Paul, L. MacPherson, J. Moore, M. Sullivan, **M. Ulaski**, K. Wilson. **2022**. Stressor-response functions as a generalizable model for context dependence. *Trends in Ecology and Evolution*. <https://doi.org/10.1016/j.tree.2022.09.010>
- Ulaski, M.E.**, S.E. Blackburn, Z.J. Jackson, and M.C. Quist. **2022**. Management goals for conserving White Sturgeon in the Sacramento-San Joaquin River basin. *Journal of Fish and Wildlife Management*. <https://doi.org/10.3996/JFWM-21-070>
- Ulaski, M.E.**, H. Finkle, A.H. Beaudreau, and P.A.H. Westley. **2022**. Climate and conspecific density inform phenotypic forecasting of juvenile Pacific salmon body size. *Freshwater Biology*. <https://doi.org/10.1111/fwb.13850>
- Ulaski, M.E.**, and M.C. Quist. **2021**. Filling knowledge gaps for a threatened species: Age and growth of Green Sturgeon of the southern Distinct Population Segment. *Journal of Fish and Wildlife Management*. <https://doi.org/10.3996/JFWM-20-073>
- Ulaski, M.E.**, H. Finkle, and P.A.H. Westley. **2020**. Direction and magnitude of natural selection on body size differ among age-classes of seaward-migrating Pacific salmon. *Evolutionary Applications*. <https://doi.org/10.1111/eva.12957>



Feddern, M., H.R. Bassett, K.N. McElroy, **M. Ree**¹, M. Gho, and R. Hilborn. **2018**. A novel method for modeling age and length selectivity of sockeye salmon as applied to the Bristol Bay Port Moller test fishery. *Canadian Journal of Fisheries and Aquatic Science*. <https://doi.org/10.1139/cjfas-2018-0018>

Selected Presentations & Guest Lectures *presenting author

Presentations at conferences

Oral Presentation, ***Ulaski, M.E.**, S.W. Wilson, and J.W. Moore. 2026. Curves or cliffs? A synthesis of stressor-response curves for salmon. Society of Freshwater Science Meeting, Spokane, Washington, May 19, 2026.

Oral Presentation, ***Ulaski, M.E.**, and J.W. Moore. 2025. Pacific salmon and the complex problem of cumulative effects. Washington-British Columbia AFS Chapter Meeting, Vancouver, British Columbia March 13, 2025.

Invited Speaker and Panelist, ***Ulaski, M.E.**, J.W. Moore, N. Sainsbury, S. Wilson, and S. Daikuper. 2024. The complex problem of cumulative effects. BC Salmon Recovery and Resilience Conference, Vancouver, British Columbia December 3, 2024.

Oral Presentation, ***Ulaski, M.E.**, and J.W. Moore. 2024. Cumulative effects in salmon watersheds: towards linking knowledge and policy. World Fisheries Congress, Seattle, Washington March 7, 2024.

Oral Presentation, ***Ulaski, M.E.**, and J.W. Moore. 2023. Cumulative effects in salmon watersheds: towards linking knowledge and policy. American Fisheries Society Annual Conference, Grand Rapids, Michigan August 24, 2023.

Oral Presentation, ***Ulaski, M.E.**, S.E. Blackburn, Z.J. Jackson, and M.C. Quist. **2022**. Management goals for conserving White Sturgeon in the Sacramento-San Joaquin River basin. American Fisheries Society Annual Conference, Spokane, Washington August 23, 2022.

Oral Presentation, ***Ulaski, M.E.**, and M.C. Quist. **2020**. Filling knowledge gaps of a threatened species: green sturgeon in the Sacramento River. Idaho Chapter American Fisheries Society Meeting, Coeur d'Alene, Idaho March 13, 2020.

Oral Presentation, ***Ree, M.E.**, H. Finkle, A. Beaudreau, and P.A.H. Westley. **2019**. Linking freshwater growth to size-dependent marine survival: interactions between processes of climate, competition, and natural selection. American Fisheries Society and The Wildlife Society Joint Annual Conference, Reno, Nevada October 2, 2019.

Oral Presentation, **Ree, M.E.**, and P.A.H. Westley. **2019**. April 5, 2019. Stock-specific responses of size at ocean entry to temperature and competition in Alaska sockeye salmon *Oncorhynchus nerka* over four decades. UAF AFS Student Subunit Talks, Juneau, Alaska April 5, 2019.

Oral Presentation, **Ree, M.E.**, and *P.A.H. Westley. **2019**. Stock-specific responses of size at ocean entry to temperature and competition in Alaska sockeye salmon *Oncorhynchus nerka* over four decades. Alaska Chapter American Fisheries Society Meeting, Sitka, Alaska March 19, 2019.

Oral Presentation, ***Ree, M.E.**, and P.A.H. Westley. **2018**. Is bigger always better? Size-selective marine survival of an Alaskan sockeye salmon population. Western Division American Fisheries Society Meeting, Anchorage, Alaska May 22, 2018.

Oral Presentation, ***Ree, M. E.** and P. A. H. Westley. **2018**. Is bigger always better? Size-selective early

¹Applicant's last name changed professionally from Ree to Ulaski in 2020



marine survival in an Alaskan Sockeye Salmon population. UAF AFS Student Subunit Talks, Juneau, Alaska April 6, 2018.

Oral Presentation, ***Ree, M. E.**, and P.A.H. Westley. **2017**. Does life history diversity influence population productivity at small spatial scales? An examination with Olga Lakes sockeye salmon. Alaska Chapter American Fisheries Society Annual Meeting, Fairbanks, Alaska March 22, 2017.

Oral Presentation, ***Ree, M. E.**, and P. A. H. Westley. **2017**. Life history diversity and productivity: A look at Olga Lakes salmon. UAF AFS Student Subunit Talks, Juneau, Alaska March 3, 2017.

Other presentations and guest lectures

Oral Presentation, ***Ulaski, M.E.**, E. Griggs, and J.W. Moore. 2026. Policy for healthy habitats. DFO-PSF-GSRO Knowledge Exchange Series [online], June 16, 2026.

Guest Lecture, ***Ulaski, M.E.** 2023. White Sturgeon: Life history and management challenges. Fish Ecology, University of Fairbanks Alaska, Fairbanks, Alaska September 15, 2023.

Oral Presentation, ***Ulaski, M.E.** **2022**. What is the potential future of Pacific salmon body size at ocean entry and does it matter? Les Ecologistes, Simon Fraser University, Burnaby, BC November 3, 2022.

Guest Lecture, ***Ulaski, M.E.** **2020**. Age and growth of fish. Ichthyology Lab, University of Idaho, Moscow, Idaho February 2020.

Guest Lecture, ***Ree, M.E.**, and A. Seitz. **2019**. Sharks, skates, and rays. Fish and Fisheries of Alaska, Fairbanks, Alaska January 31, 2019.

Poster Presentation, **Ree, M.E.**, X. Chen, and ***M. Janowicz.** **2015**. Spatial and temporal variation of benthic macroinvertebrate communities in three westslope cutthroat trout tributaries in the Rocky Mountains. Advances in the Population Ecology of Stream Salmonids IV. Girona, Spain May 27, 2015.

Poster Presentation, ***Ree, M.E.**, X. Chen, and M. Janowicz. **2015**. Spatial and temporal variation of westslope cutthroat trout habitat in the Rocky Mountains. Undergraduate Research in Science Conference of Alberta. Edmonton, Alberta May 1, 2015.

Poster and Oral Presentation, ***Ree, M.E.**, X. Chen, and M. Janowicz. **2015**. Spatial and temporal variation of benthic macroinvertebrate communities in three rocky mountain tributaries. Prairie University Biology Symposium. Winnipeg, Manitoba February 20, 2015.

Research Impact

Citations: 105	h-index: 6	i10-index: 5
2025	Top 100 viewed paper in FACETS in September	
2025	Research featured in Phys Org – (online), Environment Coastal & Offshore – (online)	
2025	Stressor-response functions used for DFO salmon rebuilding plans for Nanaimo Chinook and Lower Fraser Chinook	
2024	Research used by California Department of Fish and Wildlife to estimate abundance of White Sturgeon – (online)	
2023	Top viewed article in River Research and Applications	
2023	Research used as key piece of evidence for petition to list White Sturgeon as threatened by the State of California – (online)	



2018 Research featured in Kodiak Daily Mirror – ([online](#))

2018 Research featured by Alaska Sea Grant – ([online](#))

Grants

2018 Cooperative Institute for Alaska Research Grant (US \$9,744)

2017 Northern Gulf of Alaska Applied Research Award (US \$5000)

Awards and Scholarships

2025 J Frances Allen AFS Scholarship (US \$2,500)

2024 Runner-up J Frances Allen AFS Scholarship

2023 Eugene Maughan AFS Scholarship (US \$2,500)

2023 NSERC Supplements for Research in the Field of Impact Assessment (\$10,000)

2021 Graduate Dean's Entrance Scholarship (\$31,000)

2021 NSERC CGSD (\$105,000)

2021 Provost Prize of Distinction (\$15,000)

2019 Best long talk – UAF AFS Student Symposium (US \$100)

2016 Queen Elizabeth II Graduate (Master's) Scholarship (\$10,800; declined)

2015 Ron Floden Flying Scholarship (\$750)

2014 Concordia Academic Award for Biological and Environmental Sciences (\$500)

2013 Louise McKinney Scholarship (\$5000)

2012 Jason Lang Scholarship (\$1000)

2011 Concordia University of Edmonton Entrance Scholarship \$12,000)

Policy Engagement

2025 Uptake of research (Ulaski et al. 2025 in FACETS) by Washington State Governor's Salmon Recovery Office and BC Ministry of Water, Land, and Resource Stewardship

2025 Comments on Metro Vancouver's Draft Salmon Enhancement Action Plan

