

Jordanna N. Bergman, PhD | Curriculum Vitae

Postdoctoral Fellow | University of Victoria

jordannanbergman@gmail.com

HIGHLIGHTS

- ★ Author on 22 peer-reviewed publications (11 first-author)
- ★ Author of three technical reports (Parks Canada; Lotic Environment Ltd.) and two book chapters
- ★ Secured >\$300,000 in competitive grants and awards
- ★ Winner of several prestigious awards
- ★ Dual Canadian-American citizen

EDUCATION

Carleton University, Ottawa, ON, CAN 2018-2023

PhD in Biology | Advisors: Drs. Steven Cooke and Joseph Bennett

Thesis: *An interdisciplinary approach to evaluating native and invasive fish connectivity and spatial ecology in Canada's historic Rideau Canal Waterway*

- ★ Bestowed an Outstanding Thesis Excellence Award

University of South Florida, Tampa, FL, USA 2010-2015

BSc in Marine Biology (Minors: Geology; Environmental Policy) | Advisor: Dr. Philip Motta

Thesis: *Teeth penetration force of the tiger shark Galeocerdo cuvier and sandbar shark Carcharhinus plumbeus*

AWARDS & GRANTS

All CAD unless otherwise indicated

Year(s)	Funding agency	Award	Total funds
2025-2026	L'Oréal Canada and UNESCO	L'Oréal Canada For Women in Science Research Excellence Fellowships	\$20,000
2024-2026	Natural Sciences and Engineering Research Council of Canada (NSERC)	Postdoctoral Fellowship	\$129,583
2024	The American Fisheries Society Fish Habitat Section	Travel Award	\$750 USD
2024	The Fisheries Society of the British Isles	Travel Grant	\$1500 GBP
2024	Carleton University	Outstanding Thesis Excellence Award	\$500
2023	Carleton University	Travel Award	\$500
2023	International Conference on Fish Telemetry	Travel Award	\$500 EUR
2023	International Association for Great Lakes Research	Travel Award	\$150 USD
2022	The American Fisheries Society Fish Habitat Section	Best Student Oral Presentation	Honorable mention
2020, 2022	The Ontario Chapter of the American Fisheries Society	EJ Crossman Award, Best Student Oral Presentation	\$250

2022	Canadian Conference for Fisheries Research	Clemens-Rigler Award	\$200
2022	Carleton University	Wyndham Scholarship for Graduate Studies in Biology	\$1300
2021	Canadian Aquatic Resources Section of the American Fisheries Society	Peter A. Larkin Award for Excellence in Fisheries (Runner-up)	Honour
2021	Society for Conservation Biology	Graduate Student Research Award	\$1000
2021	Muskies Canada Inc.	Research Award (co-PI)	\$4500
2020-2023	NSERC	Postgraduate Scholarships – Doctoral Program (PGS D)	\$63,000
2020-2021	Province of Ontario	Ontario Graduate Scholarship (<i>declined</i>)	\$15,000
2020	Muskies Canada Inc.	Research Award (co-PI)	\$6150
2019-2020	NSERC	Canada Graduate Scholarships – Master's Program (CGS M)	\$17,500
2019-2020	Carleton University	Biology Department Award	\$5900
2018-2019	Province of Ontario	Queen Elizabeth II Graduate Scholarship	\$15,000
2018-2019	Carleton University	Biology Department Entrance & Award	\$7900
2015	NSERC	Undergraduate Student Research Award (USRA)	\$7000
2011	The University of South Florida	Dean's Honour List (top 10%)	Honor
2010-2015	The University of South Florida	Florida Bright Futures Scholarship	\$13,000 USD
2010-2013	The University of South Florida	University of South Florida Merit Scholarship	\$6000 USD

PEER-REVIEWED PUBLICATIONS

*Equal contributor

First-author publications

- 1a. **Bergman JN**, Vis C, Minelga V, ... Cooke S (2025) Evaluating the use of a freshwater protected area by northern pike (*Esox lucius*) in a large temperate lake system. *Aquatic Sciences* 87:1-8.
- 2a. **Bergman JN**, Bennett J, Minelga V, ... Cooke S (2024) Ecological connectivity of invasive and native fishes in a historic navigation waterway. *Canadian Journal of Fisheries and Aquatic Sciences* 81:600-619.
- 3a. **Bergman JN**, Negiel K, Landsman S, ... Cooke S (2022) Multi-year evaluation of muskellunge (*Esox masquinongy*) spatial ecology during winter drawdowns in a regulated, urban waterway in Canada. *Hydrobiologia* 1-23.
- 4a. Reid J,* **Bergman JN**,* Kadykalo A,* ... Cooke S (2022) Developing a national level evidence-based toolbox for addressing freshwater biodiversity threats. *Biological Conservation* 269:109533.
- 5a. **Bergman JN**,* Buxton R,* Lin H-Y,* ... Bennett J (2022) Evaluating the benefits and risks of social media for wildlife conservation. *FACETS* 7:360-397. Featured as "top articles of 2022" by FACETS and Canadian Science Publishing.
- 6a. **Bergman JN**, Raby G, Neigel K, ... Cooke S (2022) Tracking the early stages of an invasion with biotelemetry: behaviour of round goby (*Neogobius melanostomus*) in Canada's historic Rideau Canal. *Biological Invasions* 24:1149-1173.
- 7a. **Bergman JN**, Beaudoin C, Mistry I, ... Cooke S (2021) Historical, contemporary, and future perspectives on a coupled social-ecological system in a changing world: Canada's historic Rideau Canal. *Environmental Reviews* 99:1-16 (*Editor's Choice*).

- 8a. Buxton R,* **Bergman JN**,* Lin H-Y,* ... Bennett J (2020) Three lessons conservation science can learn from the COVID-19 pandemic: A call to action from early career researchers. *Conservation Biology* 34:1331-1332.
- 9a. **Bergman JN**,* Binley A,* Murphy R,* ... Bennett J (2020) How to rescue Ontario's *Endangered Species Act*: A biologist's perspective. *FACETS* 5:423-431.
- 10a. **Bergman JN**, Bennett J, Binley A, ... Madliger C (2019) Scaling from individual physiological measures to population-level demographic change: case studies and future directions for conservation management. *Biological Conservation* 238:108242.
- 11a. **Bergman JN**, Lajeunesse M, Motta P (2017) Teeth penetration force of the tiger shark *Galeocerdo cuvier* and sandbar shark *Carcharhinus plumbeus*. *Journal of Fish Biology* 91:460-472.

Co-author publications

- 1b. Robichaud J, Haley A, LaRoche L, Russo J, Zhang J, Cunningham K, Lawson L, **Bergman JN**, ... Piczak M (2025) Global trends in aquatic animal satellite telemetry studies. *Environmental Reviews* 33:1-19.
- 2b. Clifford C, Bieroza M, Clarke S, Pickard A, Stratigos M, Hill M, Raheem N, Tatariw C, Wood P, Arismendi I, Audet J, Aviles D, **Bergman JN**, ... Peacock M (2025) Lines in the landscape. *Communications Earth & Environment* 6:693.
- 3b. Glassman D, Hlina B, Donaldson L, Abrams A, **Bergman JN**, ... Cooke S (2024) Gravel washing as a lacustrine spawning habitat restoration method for smallmouth bass. *Aquatic Living Resources* 37:11.
- 4b. Bennett J, Edwards B, **Bergman JN**, ... Rytwinski T (2024) How ignoring detection probability hurts biodiversity conservation. *Frontiers in Ecology and the Environment* e2782.
- 5b. Hudgins E, Leung B, MacQuarrie C, McCullough D, Francis A, Lovett G, Guo Q, Potter K, Cullingham C, Koch F, **Bergman JN**, ... Bennett J (2024) Five organizing themes for invasive forest insect and disease management in Canada and the United States. *Forest Ecology and Management* 566:122046.
- 6b. Cooke S, **Bergman JN**, Twardek W, ... Lennox R (2022) The Movement Ecology of Fishes. *Journal of Fish Biology* 101:756-779.
- 7b. Twardek W, Nyboer E, Tickner D, O'Connor C, Lapointe N, Taylor M, Gregory-Eaves I, Smol J, Reid A, Creed I, Nguyen V, Winegardner A, **Bergman JN**, ... Cooke S (2021) Mobilizing practitioners to support the Emergency Recovery Plan for freshwater biodiversity. *Conservation Science and Practice* 3:e467.
- 8b. Cooke S, **Bergman JN**, Madliger C, ... Chown S (2021) One hundred research questions in conservation physiology for generating actionable evidence to inform conservation policy and practice. *Conservation Physiology* 9:coab009.
- 9b. Cooke S, Cramp R, Madliger C, **Bergman JN**, ... Franklin C (2021) Conservation physiology and the COVID-19 pandemic. *Conservation Physiology* 9:coaa139.
- 10b. Cooke S, **Bergman JN**, Nyboer E, ... Vermaire J (2020) Overcoming the concrete conquest of aquatic ecosystems. *Biological Conservation* 247:108589.
- 11b. Krumhansl K, **Bergman JN**, Salomon A (2017) Assessing the ecosystem-level consequences of a small-scale artisanal kelp fishery within the context of climate-change. *Ecological Applications* 27:799-813.

Book chapters

- 1c. Cooke S, Fanguie N, **Bergman JN**, ... Farrell A (2022) Conservation physiology and the management of wild fish populations in the Anthropocene. In Cooke SJ, Fanguie NA, Farrell AP, Brauner CJ, Eliason EJ (eds) *Conservation Physiology for the Anthropocene – A Systems Approach part A. Fish Physiology Volume 39A*. pp 1-21 Elsevier Academic Press, UK.
- 2c. Cooke S, Madliger C, **Bergman JN**, ... Franklin C (2021) Optimism and opportunities for conservation physiology in the Anthropocene: a synthesis and conclusions. In Madliger CL, CE

Franklin, OP Love, SJ Cooke (eds) *Conservation Physiology: Applications for wildlife conservation and management*. pp 319-329 Oxford University Press, UK.

Publications under review, in revision, or in prep

Underlined names indicate mentored student authors

- 1d. **Bergman JN**, Robichaud JA, McCutcheon J, ... Piczak M (In revision) Methods for studying the connectivity of fishes. *Fish and Fisheries*, Manuscript ID FaF-25-May-202.
- 2d. **Bergman JN**, Salomon A, ... Costa M (In prep) Evaluating the spatial-temporal drivers of kelp-encrusting bryozoans across the British Columbia coast.
- 3d. **Bergman JN**, Progosh L, Fritts A, ... Cooke J (In prep) Evaluating navigation locks as a fish connectivity pathway: A global review.
- 4d. Wade G*, **Bergman JN***, ... Costa M (In prep) A comparison of underwater fish survey methods to optimize monitoring efforts in British Columbia kelp forests.
- 5d. Van Haren S, **Bergman JN**, ... Costa M (In prep) Boats, drones, and algorithms: the use of emerging technologies to detect kelp encrusting bryozoans.

Peer referee for *Biol. Conserv.*, *Can. Field Nat.*, *Can. J. Fish. Aquat. Sci.*, *Conserv. Biol.*, *Conserv. Physiol.*, *Conserv. Sci. Pract.*, *Ecol. Freshw. Fish*, *Ecol. Inform.*, *Environ. Biol. Fishes*, *FACETS*, *ICES J. Mar. Sci.*, *J. Fish Biol.*, *J. Hydrol.*, *Mar. Biol.*, *Manag. Biol. Invasions*, *PLOS ONE*, *River Res. Appl.*

OTHER PUBLICATIONS

*Equal contributor

Technical reports

Parks Canada (Under review) Summary report of the multidisciplinary research projects on freshwater ecosystem health and management of Parks Canada's historic Rideau Canal and Trent-Severn waterways (2017-2020). Edited by **Bergman JN**, Vis C, Minelga V. 93 pp.

Bergman JN, Vis C, Parker S (2024) Summarized evidence of the effects of full protection or no-take areas in lake ecosystems for fishes. Evidence summary for the Protected Areas Establishment and Conservation Directorate, Parks Canada Agency. 7 pp.

Bergman JN, Robinson M (2023) Westslope Cutthroat Trout Overwintering Requirements - Literature Review. Prepared by Lotic Environmental Ltd. for Teck Coal. 16 pp.

Outreach articles

Bergman JN (2022) How low can you go: exploring the ecological effects of winter water-level drawdowns on muskellunge spatial ecology in Canada's historic Rideau Canal. *Muskies Canada Inc. (MCI) Release Journal Fall 2022 – Volume 45 Issue 1* (request PDF).

Bergman JN, Bennett J, Cooke S (2022) Fragmentation in rivers and waterways: Can barriers support fish conservation? *Water Science Policy*. [LINK](#)

Reid J*, **Bergman JN*** (2022) Creating a freshwater biodiversity “toolbox” to provide critical information to protect freshwater ecosystems. *Global Water Forum*. [LINK](#)

Bergman JN (2022) The power of posting: how social media can influence wildlife conservation. Canadian Science Publishing, *FACETS*, Plain Language Summary. [LINK](#)

Bergman JN (2021) What are the ecological impacts of winter water level drawdowns on muskellunge in Canada's historic Rideau Canal? Exploring winter connectivity and habitat use to inform conservation strategies. *MCI Release Journal*. [LINK](#)

Bergman JN, Cooke S (2020) Investigating fish connectivity in the Rideau Canal Waterway to inform conservation decisions. *RAEON*. [LINK](#)

Bergman JN, Cooke S (2019) Tracking Fish in the Rideau Canal Waterway. *MCI Release Journal, Research Special Issue, Vol 42 No 4*. [LINK](#)

Bergman JN (2019) Stress Response of Sifakas to Seasonal Changes and Habitat Degradation: Things are Not What They Appear. *Society for Experimental Biology Autumn Issue*. [LINK](#)
Bergman JN*, Binley A*, Murphy R*, Proctor C*, Nguyen A*, ... Bennett J (2019) Comment on the 10 Year Review of the Ontario ESA. *Ontario Environmental Registry* (request PDF).
Bergman JN (2019) Fish Tagging in the Rideau Canal. *Anglers Atlas* (request PDF).

RESEARCH EXPERIENCE AND PROFESSIONAL HISTORY

Postdoctoral Fellow

September 2023*-present

Department of Geography, University of Victoria, Victoria, BC, CAN:

- Lead an interdisciplinary team across British Columbia to evaluate the spatial-temporal dynamics of kelp-encrusting bryozoans by blending remote sensing techniques, oceanographic and environmental data, and local ecological surveys. *Fieldwork conducted in continuous 4-6-week increments in remote coastal locations from Haida Gwaii to the southern tip of Vancouver Island.*
- Coordinate partnerships and meetings with Indigenous, academic, NGO, and government partners for the above-mentioned work, refining survey objectives to be Nation-specific and support inter-agency management needs.
- Supervise graduate and undergraduate students in the development and implementation of all aspects of their theses (experimental design, statistical analyses, scientific writing, communication).
- Responsible for progress and final reports, purchasing and budget management, student and team member hires, and data sharing agreements.

**Part-time September 2023-April 2024*

Aquatic Conservation Scientist PC-02

January-June* 2024

Protected Areas Establishment and Conservation Directorate, Parks Canada, *Remote*:

- Conduct a systematic review on the effectiveness of no-take protected areas in lake ecosystems; interpret, synthesize, and present findings for provincial and federal managers.
- Synthesize research outputs and mobilize knowledge from an NSERC Strategic Partnership Grant (that supported my PhD) focused on enhancing ecosystem services in historic waterways.

**Part-time April-June 2024*

PhD Candidate

Summer 2020-Fall 2023

MSc Student

Fall 2018-Spring 2020

Passed Comprehensive Exam with Distinction in March 2020

Department of Biology, Carleton University, Ottawa, ON, CAN:

- Thesis research: use interdisciplinary methods to evaluate invasive and native fish connectivity in a historic waterway to inform evidence-based conservation strategies. *In partnership with the federal managers of the waterway, Parks Canada.*
- Serve as an Instructor, Lecturer, and Teaching Assistant for Biology & Environmental Science courses: supervise, mentor, and assist students; support or lead field and lab work; provide engaging lectures.
- Mentor undergraduate and graduate students on research design, boat handling, electrofishing, fish telemetry surgeries, acoustic receiver servicing, data collection & analysis, scientific writing.
- Grant & lab manager: purchasing duties & student/staff payments; grant management including coordinating annual meetings and final & annual reports with federal and academic groups.

★ Doctoral research publications: Bergman et al. [2021](#), [2022](#), [2022](#), [2024](#), [2025](#)

Ecologist

Fall 2023

Lotic Environmental Ltd., Cranbrook, BC, CAN:

Contract work with a conservation-focused consulting firm; supported field monitoring studies on a federally-protected trout species; independent report writing for clients.

Biological Scientist II

Fall 2015-Fall 2018

Marine Fisheries Research, Fish and Wildlife Research Institute, St. Petersburg, FL, USA:

- Field Primary Investigator for a grant assessing reproductive potential of gag grouper in the Gulf of Mexico (GoM; MARFIN NA15NMF4330155); sample collection, data preparation, and final reports. *Sampling conducted with commercial anglers via hook-and-line fishing 60-100 miles offshore in the GoM.*
- Led a physiology project analyzing sex hormones in blood plasma of sexually mature gag grouper to elucidate sex change, seasonal trends, and reproductive status in gag grouper.
- Analyzed and managed all videos from an underwater videography array (~8000 hours) for species identification, abundance, and behavioural characteristics that may be related to spawning activities.

NSERC Undergraduate Student Research Award (USRA) Student

Summer 2015

Coastal Marine Ecology & Conservation Laboratory, Simon Fraser University, Burnaby, BC, CAN:

- Drysuit diving (CAUS scientific diver) in a remote field setting off BC's Central Coast to investigate the ecological impacts of an artisanal kelp fishery on local fish and invertebrate communities. *Performed in partnership with the Heiltsuk First Nation.*
- Invertebrate belt transects to evaluate abundance, biomass, and biodiversity shifts with sea otter occupation time.
- Conducted tensile tests to measure biomechanical properties of giant kelp blades.

★ USRA publication: Krumhansl et al. [2017](#)

Divemaster & Dive Trainer

2014-2015

Divemaster

2012-2014 (*promoted*)

Dive Operations, The Florida Aquarium, Tampa, FL, USA:

- Led dive experiences in the coral reef exhibit; performed shows using full-face mask scuba.
- Trained Dive Operations, Husbandry, and Volunteer divers in all aquarium diving and policies.
- Organized orientations and educational briefings for the *Dive with Sharks* program; discussed shark physiology, reproduction, ecology, and conservation.

Undergraduate Research Student

2014-2015

Integrative Biology Laboratory, University of South Florida, Tampa, FL, USA:

Designed and conducted an independent research project examining tooth penetration force in carcharhinid sharks via biomechanical manipulations and highspeed videography analysis.

★ Honours thesis publication: Bergman et al. [2017](#)

Research Volunteer

Fall 2010, Summer 2011

South Florida/Caribbean Network (50 service hours), National Park Service, Miami, FL, USA:

Assisted in accuracy assessments of the marine benthic map for Biscayne National Park.

TEACHING AND SUPERVISION

Undergraduate Student Research Supervisor

Fall 2024-present

Honours Research Thesis (GEOG 499 A&B), University of Victoria, Victoria, BC, CAN:

1. Student: Gabrielle Wade | Project title: A comparison of underwater fish survey methods to optimize monitoring efforts in British Columbia kelp forests (2024-present).
2. Student: Scott Van Haren | Project title: Boats, drones, and algorithms: the use of emerging technologies to detect kelp encrusting bryozoans (2024-present).

Invited Lecturer

Fall 2018 & 2019, Spring 2023, Winter 2024

Carleton University, Ottawa, ON, CAN:

1. *Environmental Science and Management: Theory and Practice* (ENSC 3000): topic – agroecology & food production systems; organized field trips to interact with farmers, produce, and livestock.
2. *Conservation Biology* (BIOL 3602): topic – Maintaining sustainable marine fisheries.
3. *Landscape Ecology* (BIOL 4604): topic – Longitudinal connectivity in freshwater ecosystems and the selection fragmentation of waterways for conservation interventions.

Contract Instructor

Fall 2022 & 2023

Environmental Science Seminar (ENSC 1500), Carleton University, Ottawa, ON, CAN:

Focused on educating the next generation of scientists in becoming strong communicators, scientific writers, and problem solvers. Focal topics: mechanisms of biodiversity loss, Indigenous Ecological Ways of Knowing and Two-Eyed Seeing, and reviewing peer-reviewed literature.

Undergraduate Student Research Supervisor

Fall 2022-Spring 2023

Honours Research Thesis (BIOL 4908), Carleton University, Ottawa, ON, CAN:

1. Student: Lou Progosh | Project title: Evaluating navigation locks as a fish connectivity pathway: A global review.

Invited Contract Instructor

Fall 2022

Environmental Science Field Methods (ENSC 2000), Queen's University Biological Station, Elgin, ON, CAN:

Invited to serve as a limnology expert; focused on experiential learning and guided students through independent research projects of their choosing.

Teaching Assistant

Fall 2018-Spring 2022

Carleton University, Ottawa, ON, CAN:

Assisted in the instruction of *Foundations of Biology I & II* (BIOL 1103 & 1104); *Fish Ecology* (BIOL 4503); *Herpetology* (BIOL 4502); *Psychosocial and Biological Interactions of Health* (HLTH 3404); responsible for teaching the theory and application of biological principles, experimental design, scientific writing, science communication, species identification, and statistical analyses.

Co-Instructor

Fall 2021

Environmental Science Seminar (ENSC 1500), Carleton University, Ottawa, ON, CAN:

Tasks included lecturing, mentoring, providing guidance, and evaluating written assignments and oral presentations. We provided students with strategies for analyzing and solving the interdisciplinary environmental problems that challenge our world today.

Volunteer Teaching Assistant

Fall 2015

Fish Biology Lab (ZOO 4454L), University of South Florida, Tampa, FL, USA:

Instructed students in fish anatomy, ecology, behavior, and classification; supported freshwater and marine collection field trips.

PRESENTATIONS AND SEMINARS

(All are oral presentations; PP=poster presentation) | *Equal contributor

Organized symposia

1. Piczak M*, **Bergman JN***, Robichaud J* (2024) [Connectivity considerations for the conservation of fishes in marine and freshwater ecosystems](#). 154th Annual Meeting of the Annual Meeting of the American Fisheries Society (AFS), Honolulu, HI, USA (26 oral presentations).

Select academic conferences and meetings

1. **Bergman JN**, Costa M, Salomon A, *et al.* (2025) Evaluating the spatial-temporal dynamics of kelp-encrusting bryozoans across the British Columbia coast. *Western Society of Naturalists*, San Diego, CA, USA
2. **Bergman JN**, Costa M, Salomon A, *et al.* (2025) Evaluating the spatial-temporal drivers of kelp-encrusting bryozoans across BC. The Annual Kelp Mappers' Meeting. Victoria, BC, CAN
3. **Bergman JN**, Buxton R, Lin H-Y, *et al.* (2024) Evaluating the benefits and risks of social media for wildlife conservation. *154th Annual Meeting of the AFS*, Honolulu, HI, USA
4. **Bergman JN**, Cooke S, Bennett J, *et al.* (2024) Ecological connectivity of invasive and native fishes in a historic waterway. *154th Annual Meeting of the AFS*, Honolulu, HI, USA
5. **Bergman JN**, Costa M, Salomon A, *et al.* (2024) Evaluating spatial-temporal dynamics of kelp-encrusting bryozoans across the British Columbia coast. *154th Annual Meeting of the AFS*, Honolulu, HI, USA. Served on a panel for the *Celebrating Indigenous Fisheries Stewardship* symposium
6. **Bergman JN**, Vis C, Minelga V, *et al.* (2024) Can a freshwater protected area support a migratory fish? *154th Annual Meeting of the AFS*, Honolulu, HI, USA
7. **Bergman JN**, Bennett J, Minelga V, *et al.* (2023) An Interdisciplinary Evaluation of Multi-Species Fish Connectivity in Canada's Historic Rideau Canal Waterway. *International Conference on Fish Telemetry*, Sète, France
8. **Bergman JN**, Cooke S, Bennett J, *et al.* (2023) An Interdisciplinary Evaluation of Native and Invasive Fish Connectivity in a Navigational Waterway. *International Association for Great Lakes Research*, Toronto, ON, CAN
9. **Bergman JN**, Cooke S, Bennett J, *et al.* (2023) An Interdisciplinary Evaluation of Multi-Species Fish Connectivity in Canada's Historic Rideau Canal Waterway. *The Ontario Chapter of the American Fisheries Society Annual Meeting*, Severn Bridge, ON, CAN
10. **Bergman JN**, Cooke S, Bennett J, *et al.* (2023) An Interdisciplinary Evaluation of Multi-Species Fish Connectivity in Canada's Historic Rideau Canal Waterway. Annual Invasive Species [Forum](#), Virtual
11. **Bergman JN**, Cooke S, Bennett J, *et al.* (2022) An Interdisciplinary Evaluation of Multi-Species Fish Connectivity in Canada's Historic Rideau Canal. *152nd Annual Meeting of the AFS*, Spokane, WA, USA. *AFS Fish Habitat Section Student Presentation Award - Honourable Mention*
12. **Bergman JN**, Neigel K, Landsman S, *et al.* (2022) Muskellunge Spatial Ecology during Winter Drawdowns in a Canadian Regulated. Urban Waterway. *152nd Annual Meeting of the AFS*, Spokane, WA, USA
13. **Bergman JN**, Buxton R, Lin H-Y, *et al.* (2022) The power of posting: evaluating benefits and risks of social media for wildlife conservation. *Joint Ecological Society of America & Canadian Society for Ecology and Evolution (ESA/CSEE) Annual Meeting*, Montréal, QC, CAN
14. **Bergman JN**, Bennett J, Minelga V, *et al.* (2022) Investigating the ecological connectivity of Canada's Rideau Canal Waterway to inform conservation decisions. *Joint ESA/CSEE Annual Meeting*, Montréal, QC, CAN
15. **Bergman JN**, Neigel K, Landsman S, *et al.* (2022) Spatial ecology of muskellunge during a winter drawdown in a regulated, urban waterway in Canada. *The Ontario Chapter of the American Fisheries Society Annual Meeting*, Virtual. *Bestowed the EJ Crossman Best Student Oral Presentation Award*
16. **Bergman JN**, Neigel K, Landsman S, *et al.* (2022) What are the ecological impacts of winter water level drawdowns on muskellunge in Canada's historic Rideau Canal? *Great Lakes Acoustic Telemetry Observation System (GLATOS) Annual Meeting*, Virtual
17. **Bergman JN**, Neigel K, Landsman S, *et al.* (2022) What are the ecological impacts of winter water level drawdowns on muskellunge in Canada's historic Rideau Canal? *Canadian Conference for Fisheries Research (CCFFR)*, Vancouver, BC, CAN
18. **Bergman JN**, Raby G, Neigel K, *et al.* (2022) Tracking the early stages of an invasion with biotelemetry: behaviour of round goby in Canada's Rideau Canal. *CCFFR*, Vancouver, BC, CAN
19. **Bergman JN**, Raby G, Neigel K, *et al.* (2021) Evaluating a round goby invasion with telemetry. *The River Institute's 28th Annual River Symposium*, Virtual (Invited)

20. Beaudoin C,* **Bergman JN**,* Mistry I* (2021) The patchwork governance of the Rideau Canal: Balancing usage priorities in a jurisdictional quagmire. *Canadian Water Resources Association National Conference*, Virtual
21. **Bergman JN**, Negiel K, Raby G, *et al.* (2021) Using biotelemetry to monitor an invasion front: investigating movement patterns and behaviour of round goby in the Rideau Canal. *LOTEK Webinar Series*, Virtual (*Invited*)
22. **Bergman JN**, Bennet J, Cooke S (2021) Investigating the longitudinal connectivity of Canada's Rideau Canal Waterway to inform conservation decisions. *CCFFR*, Virtual (*Invited*)
23. **Bergman JN**, Buxton R, Lin H-Y, *et al.* (2020) The power of posting: a review of the benefits and risks of social media for wildlife conservation. *North American Congress for Conservation Biology*, Virtual
24. **Bergman JN**, Bennet J, Cooke S (2020) Examining the ecological connectivity of the Rideau Canal Waterway as experienced by native and invasive fish. *GLATOS Annual Meeting*, Ann Arbor, MI, USA
25. **Bergman JN**, Bennet J, Balshine S, *et al.* (2020) Using acoustic telemetry to monitor an invasion front: investigating movement patterns and behaviour of round goby (*Neogobius melanostomus*) in the Rideau Canal Waterway. *The Ontario Chapter of the American Fisheries Society Annual Meeting*, Orillia, ON, CAN. *Bestowed the EJ Crossman Best Student Oral Presentation Award.*
26. **Bergman JN**, Heppell S, Shea C, Lowerre-Barbieri S (2017) Seasonal cycles of gonadal development and plasma sex steroid levels in the protogynous gag grouper *Mycteroperca microlepis*. *147th Annual Meeting of the AFS*, Tampa, FL, USA (*Invited*)
27. **Bergman JN**, Lajeunesse M, Motta P (2017) Teeth penetration force of the tiger shark *Galeocerdo cuvier* and sandbar shark *Carcharhinus plumbeus*. *FISH*, Ft. Lauderdale, FL, USA
28. Krumhansl K, **Bergman JN**, Salomon A (2015) Impacts of Giant Kelp Canopy Harvest on Temperate Reef Fish. *Western Society of Naturalists*, Sacramento, CA, USA (PP)

Select outreach and public engagement

1. **Bergman JN**, Costa M (2024) Kelp-Encrusting Bryozoan Project: 2024 Summary & Next-Steps. *BCSRIF Grant All-Partner Annual Meeting* (Virtual).
2. **Bergman JN** (2024) Evaluating native and invasive fish connectivity in Canada's historic Rideau Canal Waterway. *Aquatic Research Partner Workshop* (*Invited*, Virtual).
3. **Bergman JN** (2023) Invasive fishes in the Rideau Canal. *EcoFest Westport - Doing Better Together!* Westport, ON, CAN (*Invited*)
4. **Bergman JN** (2022) Multi-year evaluation of muskellunge spatial ecology during winter drawdowns in a regulated, urban waterway in Canada. *MCI - Ottawa Chapter (OC)*, Orléans, ON, CAN (*Invited*)
5. **Bergman JN**, Neigel K, Landsman S, *et al.* (2022) Spatial ecology of muskellunge during a winter drawdown in a regulated, urban waterway in Canada. *The 2022 Musky Trader Symposium*, Virtual (*Invited*)
6. **Bergman JN**, Raby G, Neigel K, *et al.* (2022) Tracking the early stages of an invasion with biotelemetry: behaviour of round goby in Canada's historic Rideau Canal. *Frontenac Arch Biosphere Virtual Invasive Workshop*, Virtual (*Invited*)
7. **Bergman JN**, Landsman S, Neigel K, *et al.* (2022) What are the ecological impacts of winter water level drawdowns on muskellunge in Canada's historic Rideau Canal? *Muskie Science, Fishing, and More (Facebook Group)*, Virtual (*Invited*)
8. **Bergman JN**, Landsman S, LaRochelle L, *et al.* (2021) Muskie Movement Ecology Study updates. *MCI - OC*, Virtual (*Invited*)
9. **Bergman JN**,* Landsman S* (2021) Important Themes in Muskellunge Research – A Rideau River Context. *The 2021 Musky Trader Symposium*, [Virtual](#) (*co-presented) (*Invited*)
10. **Bergman JN**, Landsman S, Glassman D, Cooke S (2020) How 'connected' is Canada's historic Rideau Canal Waterway? *MCI - OC*, Virtual (*Invited*)
11. **Bergman JN***, Neigel K* (2021) How connected is the Rideau Canal? Using hydraulic models and acoustic telemetry to investigate fish connectivity and flooding. *Third Annual NSERC Strategic Partnership Grant Meeting*, Virtual

12. **Bergman JN** (2020) Identifying Canada's Information Needs – Meeting Biodiversity Conservation Targets. Workshop hosted by Carleton University/Environment and Climate Change Canada. *Canadian Museum of Nature*, Ottawa, ON, CAN (*Invited*, rapporteur).
13. **Bergman JN** (2020) Integrating Ecological Connectivity into Management Strategies. *Carleton University's Science Café Series*, Ottawa, ON, CAN (*Invited*)
14. **Bergman JN**, Bennet J, Cooke S (2020) Investigating the ecological connectivity of the Rideau Canal Waterway as experienced by native and invasive fish species. *Second Annual NSERC Strategic Partnership Grant Meeting*, Ottawa, ON, CAN
15. **Bergman JN**, Bennet J, Cooke S (2019) Investigating fish movements in the Rideau Canal to optimize conservation decisions. *Big Rideau Lake Association*, Portland, ON, CAN (*Invited*)
16. **Bergman JN**, Bennet J, Cooke S (2019) Fish connectivity in the Rideau Canal Waterway. *Annual Lockmaster Meeting*, Elgin & Ottawa, ON, CAN (*Invited*)
17. **Bergman JN**, Bennet J, Cooke S (2018) Can selective fragmentation of Canada's Rideau Canal optimize conservation decisions? *First Annual NSERC Strategic Partnership Grant Meeting*, Ottawa, ON, CAN
18. **Bergman JN** (2017) Sex in the Sea: Biology and Management of Gag Grouper in the Gulf of Mexico. *Clearwater Dive Club – Mac's Sports Inc.*, Clearwater, FL, USA (*Invited*)
19. **Bergman JN**, Motta P (2015) Shark conservation and changing public perception. *The Great American Teach-In*, Auburndale, FL, USA

SERVICE ROLES

The Ontario Chapter of the American Fisheries Society Student Subunit Officer 2021-2023

The Ontario Chapter of the American Fisheries Society, ON, CAN:

Served as [Secretary-Treasurer](#), responsible for supporting annual meetings, the parent society, social media accounts (Twitter: @AFS-OC-SUBUNIT & Instagram: @afs_oc_su), and outreach activities.

Animal Care Committee Member Fall 2020-Fall 2023

Carleton University, Ottawa, ON, CAN:

Ensure the ethical treatment of animals used for research, teaching, or display based on Canadian Council on Animal Care guidelines; review all protocols involving the use of animals.

Co-chair for The Ottawa-Carleton Institute of Biology Symposium Fall 2018-Spring 2019

Carleton University, Ottawa, ON, CAN:

Responsible for organizing all aspects of this non-profit conference including keynote speakers, funding sources, food and drink, the student poster session, oral presentations, and advertising.

MEDIA

Pynn L (21 April 2024) Reckless use of social media threatens wild species and landscapes. *The Globe and Mail*. [Personal interview](#).

Sync into the Earth (18 Dec 2023) Easy ways to #protecttheplanet and #savespecies with social media? Interview for *Spotify* [podcast](#).

Scienceline of NYU Journalism (18 Sep 2023) What happens when wild animals become social media sensations? Personal interview for online [article](#).

International Association for Great Lakes (29 Aug 2023) Research Lakes Letter – Summer 2023. Member profile: Jordanna Bergman. Online [article](#).

The Smiths Falls Record News (20 Jan 2022) Invasive fish harbours Smiths Falls' Edmonds Lockstation. Personal interview for newspaper [article](#).

Canadian Aquatic Resources Section of the American Fisheries Society (08 Dec 2021) Peter A. Larkin Award for Excellence in Fisheries.

Society for Conservation Biology (27 Oct 2021) [SCB Member Spotlight: Jordanna Bergman](#). Personal interview after being selected for the 2021 Graduate Student Research Fellowship.

CityNews (15 July 2019) Goby fish invading Rideau Canal. [Personal interview for TV clip](#).

CFRA 580 News Talk Radio (13 July 2019) Live interview at 12:33 on round goby research in the Rideau Canal Waterway.

CBC Ottawa (12 July 2019) Invasive round goby fish found in Rideau Canal. Online article, radio broadcast of interview, and personal [interview](#).

Carleton Newsroom (9 July 2019) Where The Wild Fish Go: Carleton students play pivotal role in Rideau waterway research. [Online article and personal interview](#).

CTV News Ottawa (26 June 2019) Invasive fish species on the Rideau Canal. Personal [interview](#).

TVO (May 2019) Striking Balance - Frontenac Arch Biosphere Reserve. *Scroll to minute 24:55 in [documentary](#)*.

CERTIFICATIONS AND SKILLS

Indigenous learning: Kinàmàgawin Indigenous Learning [Certificate](#), Cross Cultural Environmental Awareness Training - 4 Directions of Conservation Consulting Services

Scuba diving: AAUS D130 Scientific Diver, CAUS Scientific Diver I, PADI Open Water Scuba Instructor, DUI Dry Suit Diver, NAUI Nitrox, Handicap Scuba Association Buddy, The Florida Aquarium Dive Trainer

Computer skills: R Statistical Analysis, QGIS, Microsoft Office Suite, High speed and underwater videography analysis, SigmaPlot Version 12 Program

Field skills and certifications: Extensive backpacking in remote locations, WMA International - Wilderness First Aid Level 1, Ontario PCOC, boat handling and trailering, hook & line fishing (manual & electric), survey, monitor, and/or collect fishes, elasmobranchs, invertebrates, and kelps (canopy & understory)

Laboratory skills: enzyme-linked immunosorbent assay (EIA) kits, blood extraction and preparation from teleosts, otolith removal, histology preparation and assessment, gross dissections (agnathans, frogs, salamanders, teleosts, elasmobranchs, cats), DNA & RNA extraction, PCR