

Kyle Logan Wilson, Ph.D.

Applied Quantitative Biologist
Central Coast Indigenous Resource Alliance
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EDUCATION

- 2018 **PhD**, Ecology and Evolutionary Biology, University of Calgary
*Winner of JB Hyne Research Innovation Award
- 2013 **MSc**, Fisheries and Aquatic Sciences, University of Florida
*Winner Outstanding Thesis of the Year, School of Forest Resources and Conservation
- 2009 **BSc (Cum Laude)**, Biology, San Diego State University

PROFESSIONAL EXPERIENCE

- 2021* **Applied Quantitative Biologist**
Central Coast Indigenous Resource Alliance
- 2018-21 **Banting Postdoctoral Fellow**
Simon Fraser University
- 2015-18 **Vanier & Killam Scholar**
University of Calgary
- 2016-18 **Graduate Assistant in Leadership and Scholarship**
Faculty of Graduate Studies, University of Calgary
- 2015-16 **Course Instructor**
Biological Sciences, University of Calgary
- 2013 **Fisheries Scientist**
Fisheries and Aquatic Sciences, University of Florida
- 2010 **Fisheries Technician**
Fisheries and Aquatic Sciences, University of Florida
- 2010 **Fish Ecology Technician**
USGS Cooperative Fish and Wildlife Research Unit, Utah State University
- 2009 **Marine Mammal Intern**
United States Navy Marine Mammal Program
- 2009 **Arctic Climate Change Technician**
Global Change Research Group, San Diego State University

PUBLICATIONS

Published:

Citations: 380; **h-index:** 12; **i10-index:** 13

25. **Wilson, KL**, CJ Bailey, TD Davies, & JW Moore. 2022. Marine and freshwater regime shifts bottleneck a community of migratory Pacific salmonids in decline. *Global Change Biology*, **28**, 72-85.
*Selected for commissioned commentary by ER Schoen in [Global Change Biology](#)
24. Frid, A, M McGreer, **KL Wilson**, C Du Preez, T Blaine, & T Norgard. 2021. Hotspots for rockfishes, structural corals, and large-bodied sponges along the central coast of Pacific Canada. *Scientific Reports*, **11**, 1-13.
23. Post JR, HGM Ward, **KL Wilson**, GL Sterling, A Cantin, & EB Taylor. 2021. Assessing conservation status with extensive but low-resolution data: application of frequentist and Bayesian models to Endangered Athabasca River rainbow trout. *Conservation Biology*.
22. Wilson, SM, T Buehrens, J Fisher, **KL Wilson**, & JW Moore. 2021. Phenological mismatch, carryover effects, and marine survival in a wild steelhead trout *Oncorhynchus mykiss* population. *Progress in Oceanography*, **193**, 102533.
21. Steel, JR, WI Atlas, NC Ban, **KL Wilson**, J Wilson, WG Housty, & JW Moore. 2021. Mixed-stock fishing methods and low salmon returns intensify barriers and costs to access for Indigenous Fishers. *FACETS*, **6**, 592-613.

20. Price, MHH, JW Moore, BM Connors, **KL Wilson**, & JD Reynolds. 2021. Portfolio simplification arising from a century of change in salmon population diversity and artificial production. *Journal of Applied Ecology*, **58**, 1477-1486.
19. **Wilson, KL**, A Foos, O Barker, A Farineau, J De Gisi, & JR Post. 2020. Social–ecological feedbacks drive spatial exploitation in a northern freshwater fishery: a halo of depletion. *Journal of Applied Ecology*, **57**, 206-218.
*Selected as Editor’s Choice with commentary from R Arlinghaus in [J. Applied Ecology](#)
18. **Wilson, KL**, J De Gisi, CL Cahill, OE Barker, & JR Post. 2019. Life-history variation along environmental and harvest clines of a northern freshwater fish: plasticity and adaptation. *Journal of Animal Ecology*, **88**, 717-733.
17. Hashiguti DT, BE Soares, **KL Wilson**, RDO Raiol, & LFA Montag. 2019. Comparing three methods to estimate the average size at first maturity: a case study on a Curimatid exhibiting polyphasic growth. *Ecology of Freshwater Fish*, **28**, 266–273.
16. Carruthers, TR, K Dabrowska, W Haider, E Parkinson, D Varkey, HGM Ward, MK McAllister, T Godin, B Van Poorten, P Askey, **KL Wilson**, L Hunt, A Clarke, E Newton, CJ Walters, & JR Post. 2019. Landscape scale social and ecological outcomes of dynamic angler and fish behaviours: processes, data, and patterns. *Canadian Journal of Fisheries and Aquatic Sciences*, **76**, 970–988.
15. Brownscombe, JW, K Hyder, W Potts, **KL Wilson**, KL Pope, AJ Danylchuck, SJ Cooke, A Clarke, R Arlinghaus, & JR Post. 2019. The future of recreational fisheries: advances in science, monitoring, management, and practice. *Fisheries Research*, **211**, 247-255.
14. Cahill, CL, S Mogensen, **KL Wilson**, A Cantin, A Paul, RN Sinnatamby, P Christensen, J Reilly, L Winkel, A Farineau, & JR Post. 2018. Multiple challenges confront a high-effort inland recreational fishery in decline. *Canadian Journal of Fisheries and Aquatic Sciences*, **75**, 1357–1368.
13. **Wilson, KL**, A Honsey, B Moe, and P Venturelli. 2018. Growing the biphasic framework: techniques and recommendations for fitting emerging growth models. *Methods in Ecology and Evolution*, **9**, 822–833.
12. Matthias, BG, RNM Ahrens, MS Allen, T Tuten, ZA Siders, & **KL Wilson**. 2018. Decoupling the effects of density and environmental variability on fish growth. *Fisheries Research*, **198**, 209–219.
11. Boucek, R, C Barrientos, M Bush, D Gandy, **KL Wilson**, & J Young. 2017. Trophic state indicators are a better predictor of Florida Bass condition compared to temperature in Florida's freshwater bodies. *Environmental Biology of Fishes*, **10**, 1181–1192.
10. de Kerckhove, DT, J Freedman, **KL Wilson**, MV Hoyer, C Chu, & CK Minns. 2017. Choosing spatial units for landscape-based management of the Fisheries Protection Program. *Canadian Science Advisory Secretariat*. 2017/040. v + 44.
9. Mee, JA, JR Post, HGM Ward, **KL Wilson**, E Newton, & A Cantin. 2016. Fishing quality and angling effort relationships in an experimentally stocked, spatially structured fishery. *Ecological Applications*, **26**, 1693–1707.
8. Ward, HGM, MS Allen, EV Camp, NW Cole, LM Hunt, B Matthias, JR Post, **KL Wilson**, & R Arlinghaus. 2016. Understanding and managing social–ecological feedbacks in spatially structured recreational fisheries: the overlooked behavioral dimension. *Fisheries*, **41**, 524–535.
7. **Wilson, KL**, A Cantin, HGM Ward, ER Newton, JA Mee, DA Varkey, EA Parkinson, & JR Post. 2016. Supply–demand equilibria and the size–number trade-off in spatially structured recreational fisheries. *Ecological Applications*, **26**, 1086–1097.
6. **Wilson, KL**, BG Matthias, AB Barbour, RNM Ahrens, T Tuten, & MS Allen. 2015. Combining samples from multiple gears helps to avoid fishy growth curves. *North American Journal of Fisheries Management*, **35**, 1121–1131.
5. **Wilson, KL**, MS Allen, RNM Ahrens, & MD Netherland. 2015. Nonlinear and density-dependent fish habitat selection across physiochemical gradients in an invasive macrophyte habitat. *Environmental Biology of Fishes*, **98**, 1525–1539.
4. Carlson, AK, KM Dunmall, RE Boucek, NW Cole, JA Kerns, RM Krogman, MC Lloyd, VM Nguyen, TR Wendt, SL White, & **KL Wilson**. 2015. How to navigate fisheries education and employment. *Fisheries*, **40**, 196–197.

3. **Wilson, KL**, & AB Barbour. 2014. The death of immortality. *Nature*, **512**, 226. – **Short Fiction**
2. **Wilson, KL**, MS Allen, RNM Ahrens, & MD Netherland. 2014. Use of underwater video to assess freshwater fish populations in dense submersed aquatic vegetation. *Marine and Freshwater Research*, **66**, 10-22.
1. Rogers, MW, AB Barbour, & **KL Wilson**. 2014. Trade-offs in experimental designs for estimating post-release mortality in containment studies. *Fisheries Research*, **151**, 130–135.

In review:

6. Post, JR, **KL Wilson**, HGM Ward, & R Arlinghaus. *In review* Recruitment as an emergent property of ecological and evolutionary processes: implications for compensation and harvest management of fish.
5. Atlas, WI, **KL Wilson**, CK Whitney, J Moody, C Service, M Reid, & M Sloat. *In review*. Quantifying regional patterns of collapse in British Columbia Central Coast chum salmon (*Oncorhynchus keta*) populations since 1960.
4. Bailey, CJ, **KL Wilson**, M More O’Ferrall, & JW Moore. *In review*. Fish length back-calculation from scales: advancing methodology and correction of bias.
3. **Wilson, KL**, A Sawyer, A Potapova, CJ Bailey, D LoScerbo, EK Sweeney-Bergen, EE Hodgson, KJ Pitman, K Seitz, L Law, L Warkentin, SM Wilson, WI Atlas, DC Braun, M Sloat, MT Tinker, & JW Moore. *In revision*. Managing for ecological surprises in at-risk metapopulations.
2. Kaemingk, MA, R Arlinghaus, MH Birdsong, CJ Chizinski, R Lyach, **KL Wilson**, & KL Pope. *In revision*. Linking ecosystem size to conservation practices and ecosystem services. *Fisheries Research*.
1. Mee, JA, A Farineau, **KL Wilson**, & JR Post. *In revision*. Modelling the effects of climate change on water temperature and fish distributions in the South Saskatchewan River Basin. *Canadian Journal of Fisheries and Aquatic Sciences*.

In preparation:

4. Mogensen, S, RN Sinnatamby, A Cantin, **KL Wilson**, CL Cahill, & JR Post. *In prep*. Managing whirling disease outbreaks in rainbow trout populations.
3. **Wilson, KL**, & JR Post. *In prep*. Spatial structure and social-ecological feedbacks drive landscape patterns of fishery collapses.
2. **Wilson, KL**, JR Post, A Farineau, O Barker, & J De Gisi. *In prep*. Tradeoffs in social and ecological outcomes in lake trout management.
1. Sweeney-Bergen EK, EG Martins, **KL Wilson**, M Power, DA Patterson, MJ Bradford, TE Cone, & JW Moore. *In prep*. Direct and indirect drivers of shifting sockeye salmon (*Oncorhynchus nerka*) fecundity in British Columbia, Canada over seven decades.

Technical reports & other publications:

19. **Wilson, KL**, WI Atlas, J Steel, J Wilson, CK Whitney, M McGreer, WG Housty, & M Reid. 2022. Central Coast Catch Monitoring and Creel Program. Prepared for: Central Coast Indigenous Resource Alliance; Fisheries and Oceans Canada. 82 pp.
18. **Wilson, KL**. 2021. Memo: Considering Cumulative Effects under the Fisheries Act for the Lac Ste. Anne Métis Community. Prepared for: the Lac Ste. Anne Métis Community; Fisheries and Oceans Canada.
17. Atlas, WI, **KL Wilson**, & CK Whitney. 2021. Documenting a recent collapse in coho salmon stocks on the North and Central Coast of British Columbia: implications for fisheries, conservation, and co-governance. Prepared for: Fisheries and Oceans Canada.
16. **Wilson, KL**, CK Whitney, & WI Atlas. 2021. Understanding interannual variability in Central Coast recreational catch and effort. Prepared for: Fisheries and Oceans Canada. 10 pp.
15. Steel, J, WI Atlas, **KL Wilson**, J Wilson, WG Housty, & M Reid. 2021. 2020 Heiltsuk salmon catch monitoring report. Prepared for: Heiltsuk Integrated Resource Management Department. 13pp.
14. Atlas, WI, J Steel, **KL Wilson**, J Wilson, WG Housty. 2020. Haítzaqv salmon catch and effort patterns using community-based monitoring. Prepared for: Heiltsuk Integrated Resource Management Department. 22pp.

13. Thompson, M, S Alderman, **KL Wilson**, S Dalgarno, J Thorley, S Gavin, & A Dersch. 2020. Trans Mountain Expansion Project and oil spills: power analysis on Pacific salmon data. Prepared for: Adams Lake Indian Band. 89 pp.
12. **Wilson, KL**, J De Gisi, OE Barker, A Farineau, & JR Post. 2019. Lake trout management tool: Exploring tradeoffs in social and ecological outcomes for managing the BC and Yukon recreational lake trout fishery. Prepared for: British Columbia Ministry of Forests, Lands, and Natural Resource Operations and Rural Development: Fish and Wildlife Sector. 46 pp.
11. **Wilson, KL**, K Dunmall, & V Nguyen. 2015. How to... write and defend your thesis. American Fisheries Society – Education Section. 3 pp.
10. Dunmall, K, V Nguyen, & **KL Wilson**. 2015. How to... write effective scholarship applications. American Fisheries Society – Education Section. 3 pp.
9. White, S, **KL Wilson**, & R Boucek. 2015. How to... publish in graduate school. American Fisheries Society – Education Section. 3 pp.
8. Carlson, A, **KL Wilson**, & N Cole. 2015. How to... analyze your data. American Fisheries Society – Education Section. 3 pp.
7. **Wilson, KL**, & MS Allen. 2013. Exploring the potential for supplemental stocking of wild-reared largemouth bass at Lake Apopka. Prepared for: Florida Fish and Wildlife Conservation Commission. 14 pp.
6. **Wilson, KL**, EL Bradshaw, MS Allen, & MD Netherland. 2013. Evaluating fish habitat quality in dense hydrilla managed with different herbicide approaches. Prepared for: Florida Fish and Wildlife Conservation Commission. 15 pp.
5. **Wilson, KL**, MS Allen, & MD Netherland. 2012. Assessing fish communities in dense submersed aquatic vegetation with underwater video cameras. Proceedings of the 23rd Annual Florida Lake Management Society Conference. 83:84 ([online](#))
4. **Wilson, KL**, MS Allen, & MD Netherland. 2012. Use of underwater video cameras to assess fish communities in dense submersed aquatic vegetation. The Shellcracker: Florida Chapter of the American Fisheries Society. 19(3):7-10. ([online](#))
3. Bradshaw, EL, **KL Wilson**, MS Allen, & MD Netherland. 2011. Evaluating fish habitat quality in dense hydrilla with different herbicide approaches. FFWCC Invasive Plant Management Newsletter. 3:3-4. ([online](#))
2. Bell, T, D Drumm, D Hondelero, & **KL Wilson**. 2009. Comparative carbon flux in four subtropical ecosystems in Lopez Mateos, Baja California Sur. Global Change Research Group. Scientific Report. 30 pp.
1. **Wilson, KL** 2008. The effects of chemical signals on bystander crayfish. Senior Independent Research Report. San Diego State University. 16 pp.

PRESENTATIONS

Seminars & invited talks:

- | | |
|------|---|
| 2022 | National Oceanic Atmospheric Administration, Northwest Fisheries Science Center – Watershed Program |
| 2021 | British Columbia Wildlife Federation, Conservation Webinar Series (online) |
| 2020 | Adams Lake Indian Band community meeting. Chase, BC |
| 2019 | Gulf Coast Research Laboratory, University of Southern Mississippi. Ocean Springs, MS |
| 2019 | Parks Canada, Banff National Park. Banff, AB |
| 2018 | Simon Fraser University. Burnaby, BC (online) |
| 2018 | University of Calgary. Calgary, AB |
| 2018 | 71 st Canadian Conference for Fisheries Research. Edmonton, AB |
| 2017 | University of Washington. Seattle, WA (online) |
| 2017 | University of Calgary. Calgary, AB |
| 2016 | British Columbia Fisheries Management Meeting. Kelowna, BC |
| 2015 | Izaak Walton Killam Trustees Banquet. Calgary, AB |
| 2014 | University of Calgary, Medicine & Gerontology. Calgary, AB (online) |

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- 2014 1st International Joint Aquatic Sciences Meeting. Portland, OR
2013 University of Florida, Environmental Law. Gainesville, FL

Contributed talks:

- 2019 149th American Fisheries Society. Reno, NV
2018 Prairie University Biological Symposium. Calgary, AB
2017 8th World Recreational Fisheries Conference. Victoria, BC
2017 70th Canadian Conference for Fisheries Research. Montreal, QC
2016 7th World Fisheries Congress. Busan, South Korea
2016 69th Canadian Conference for Fisheries Research. St. John's, NL
2014 144th Meeting of the American Fisheries Society. Quebec City, QC
2014 67th Canadian Conference for Fisheries Research. Yellowknife, NT
2013 42nd Benthic Ecology Meeting. Savannah, GA
2013 Southern Division AFS Meeting. Nashville, TN **Finalist for Best Student Paper* ([online](#))
2013 Biannual FWC-IFAS Invasive Plant Research Review. Citra, FL ([online](#))
2013 16th UF Fisheries and Aquatic Sciences Graduate Student Symposium. Gainesville, FL
2013 Landscape Ecology Poster Session. Gainesville FL
2012 36th Florida Aquatic Plant Management Society Meeting. St. Augustine, FL
2012 31st MidSouth Aquatic Plant Management Society Meeting. Mobile, AL **Best Student Paper*
2012 23rd Florida Lake Management Society Conference. Gainesville, FL
2012 Florida Cooperative Fish and Wildlife Research Unit Coordinating Committee Meeting. Gainesville, FL
2012 15th UF Fisheries and Aquatic Sciences Graduate Student Symposium. Gainesville, FL
2012 American Fisheries Society – Florida Chapter Spring Meeting. Ocala, FL
2012 Southern Division AFS Meeting. Biloxi, MS
2011 Florida Cooperative Fish and Wildlife Research Unit Coordinating Committee Meeting. Gainesville, FL
2009 Barrow Arctic Science Consortium. Barrow, AK

COMPETITIVE GRANTS, AWARDS & HONORS

Total awarded value: \$2,625,804

Grants & contracts:

PI: Principal Investigator; **COPI:** Co-Investigator; **CT:** Consultant

- 2021 **COPI**, British Columbia Salmon Restoration and Innovation Fund [\$2,098,774]
Project title: 'First Nations-led catch monitoring to inform sustainable mixed-stock fisheries management on the Central Coast'
Partners: Central Coast Indigenous Resource Alliance Society
- 2021 **CT**, Lac Ste. Anne Métis Community
Project title: Fisheries & Oceans Canada - Indigenous Habitat Participation Program regarding the consideration of cumulative effects under the Fisheries Act [\$4,000]
- 2020 **CT**, Heiltsuk Integrated Resource Management Department [\$5,000]
Project title: 'Understanding catch and effort dynamics in Chinook and Coho salmon fisheries'
- 2019 **CT**, Adams Lake Indian Band [\$12,000]
Project title: 'Identifying potential impacts to Salmon fisheries from the TMX pipeline'
Partners: Management and Solutions in Environmental Science
- 2019 **PI**, BC Ministry of Forests, Lands, Natural Resource Operations, and Rural Development [\$12,000]
Project title: 'Co-managing BC lake trout fisheries under climate change'
Partners: Resource Management Division, Skeena Region
- 2016 **PI**, BC Ministry of Forests, Lands, Natural Resource Operations, and Rural Development [\$30,000]
Project title: 'Lake trout landscape management tool'
Partners: Resource Management Division, Skeena Region, and Environment Yukon
- 2016 **PI**, Freshwater Fisheries Society of British Columbia [\$14,000]
Project title: 'Lake trout landscape management tool'
Partners: FFSBC, Large Lakes Committee
- 2014 **COPI**, Mitacs-Accelerate Research Program [\$45,000]

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Project Title: 'The numerical response of anglers to fishing quality in British Columbia's lake trout fisheries'

Partners: Freshwater Fisheries Society of British Columbia, and InStream Fisheries Research

Fellowships & scholarships:

- 2019 **Banting Postdoctoral Fellowship**, presented by NSERC [\$140,000] – [Online](#)
- 2015 **Vanier Canada Graduate Scholarship**, presented by NSERC [\$150,000] – [Online](#)
Izaak Walton Killam Memorial Scholarship, presented by UCalgary & Killam Trustees [\$66,000] – [Online](#)
Izaak Walton Killam Research Scholarship, presented by UCalgary & Killam Trustees [\$6,000]
- 2014 **Dean's Doctoral Scholarship**, presented by UCalgary [\$15,000] - declined
Eyes High International Doctoral Scholarship, presented by UCalgary [\$6,000] – declined
Research Scholarship, presented by UCalgary Biological Sciences [\$3,000]
- 2013 **Roger Rottman Memorial Scholarship**, presented by the Florida Chapter of the American Fisheries Society (AFS) [\$500]
- 2012 **National Science Foundation Graduate Research Fellowship - Honorable Mention**
William L. Maier Jr. Memorial Scholarship, presented by the Florida Chapter of the Aquatic Plant Management Society [\$1,500]
- 2004 **California Governor's Scholarship** [\$1,000]

Awards, honors, & other:

- 2020 **Editor's Choice** – article selected as Editor's Choice in Journal of Applied Ecology
- 2019 **Honorarium**, Parks Canada – Banff National Park [\$2,200]
- 2018 **JB Hyne Research Innovation Award**, presented by UCalgary [\$500]
- 2017 **Clemens-Rigler Award**, presented by the Canadian Aquatic Resources Section [\$150]
- 2016 **Jim & Josie Gray Award**, presented by UCalgary for Graduate Teaching Assistant of the Year [\$750]
International Travel Award, presented by UCalgary [\$1,000]
Travel Award, presented by the 7th World Fisheries Congress [\$1,100]
Honorarium, Department of Fisheries and Oceans Canada [\$500]
Citation of Merit, presented by UCalgary Biological Sciences for contribution to graduate education
Clemens-Rigler Award, presented by the Canadian Aquatic Resources Section [\$600]
- 2014 **Graduate Performance Award**, presented by UCalgary Biological Sciences [\$4,500]
John E. Skinner Memorial Award, presented by the American Fisheries Society [\$800]
Co-recipient for **Best Student Chapter (Florida)**, presented by the American Fisheries Society
Association for the Sciences of Limnology and Oceanography Travel Grant [\$500]
Research Lab Award, presented by UCalgary Biological Sciences [\$1,750]
Outstanding Thesis of the Year, presented by the School of Forest Resources and Conservation, UFlorida [\$300]
- 2013 **Outstanding Graduate Student of the Year (M.Sc.)**, presented by the Fisheries and Aquatic Sciences Program, UFlorida
Graduate Student Excellence in Outreach and Extension, presented by the School of Forest Resources and Conservation, UFlorida
The Wayne Smith Student Leadership Award, presented by the School of Forest Resources and Conservation, UFlorida [\$330]
Finalist for **Best Student Paper Award**, Southern Division AFS Spring Meeting
The University of Florida's Graduate Student Council Travel Grant [\$250]
- 2012 **Outstanding Graduate Student Leader**, presented by UFlorida Graduate Student Council
Education Stipend, from The Council for Environmental Education's Project WILD [\$50]
Best Student Presentation Award, presented by MidSouth Aquatic Plant Management Society [\$100]
Travel Grant, presented by MidSouth Aquatic Plant Management Society [\$450]
Travel Award, presented by the Florida Lake Management Society [\$200]
- 2006 **Dean's List Semester's Honor (5x)**, College of Sciences, San Diego State University

TEACHING & LEARNING

Courses & workshops:

- 2020 Co-led workshop on spatial analysis and mapping in R for SFU Earth to Ocean Research Group
- 2020 Developed and led workshops on Bayesian bioeconomic and time-series models for Fusion Analytics Inc.
- 2019 Developed and led graduate course on Bayesian data analysis using Stan for SFU in Winter 2019
- 2019 Led free workshop on power analyses for SFU Earth to Ocean Research Group
- 2016 Led free 2-day university-wide workshop on learning programming and statistics in R, hosted by UCalgary's Taylor Family Digital Library ([online](#))
- 2016 Led graduate course Biology 607 on computer programming in the biological sciences at UCalgary
- 2015 Co-developed and taught graduate course Biology 607 on computer programming in the biological sciences alongside Stephen Hausch at UCalgary
- 2014 Teaching assistant for UCalgary's undergraduate course ECOL 439 on population ecology

Supervision:

- 2012 Undergraduate Research Supervisor for UF undergraduate student Simone Nageon de Lestang
- 2012 Undergraduate Research Supervisor for UF undergraduate student Antonio Malouf

Guest lectures:

- 2021 Simon Fraser University, Environmental Sciences 211 – Intro to Applied Ecology
- 2021 Bamfield Marine Science Center, Fall Program – Applied Data Analyses
- 2017 University of Calgary (BISI 607, R Wizardry in the Biological Sciences)
- 2013 University of Calgary (ECOL 417, Aquatic Ecology)
- 2013 University of Florida (PCB 5307, Limnology)
- 2011 University of Florida (FNR 3410, Field Techniques)
- 2010 San Diego State University (BIOL 526, Terrestrial Arthropods)

OUTREACH & EXTENSION

Science communication & media:

- 2021 **Media:** Research featured in Hakai Magazine – ([online](#))
Media: Research featured in Comox Valley Record – ([online](#))
- 2020 **Media:** Radio interview on CBC's Yukon Morning on lake trout ecosystems – ([online](#))
- 2019 **SciComm training:** COMPASS advanced science communication workshop led by Nancy Barron
Media: Radio interview with CBC North on Yukon lake trout fishery & ecology
- 2018 **SciComm training:** COMPASS science communication workshop led by Nancy Barron
SciComm training: Organized Beakerhead science and media communication training workshop for graduate students funded through UCalgary's Faculty of Graduate Studies
- 2016 **Media:** Research highlighted by the American Fisheries Society ([online](#))
- 2015 **Media:** Interviewee in film production on research achievements – ([interview](#) & [video](#))
- 2013 **Science blog:** Founding and contributing author to Florida AFS blog '**From Reefs to Rivers**' to convey the latest research and findings regarding Florida's fisheries to the public - ([online](#))
Media: Master's research on invasive species highlighted in interviews with Robert Montgomery, professional fisherman, and press articles in #1 bass fishing magazine distributed internationally (B.A.S.S. Times September 2013 issue) and online fishing blogs - ([online](#))

*Select coverage includes:

- *Activist Angler* ([online](#))
- *American Fisheries Society* ([online](#))
- *BASS Times* (Sep. 2013 in print)
- *CBC* ([radio](#))
- *FishSens* (print and [online](#))
- *MSN US News* ([online](#))
- *Novus Light Technologies* ([online](#))
- *Orlando Sentinel* (front page print and [online](#))
- *Phys.org* ([online](#))

- *Science Daily* ([online](#))
- *Southeast Agricultural Network* ([online](#))

GK-12 STEM education & outreach:

- 2019 **Volunteer symposium judge:** volunteer judge for SFU's IDEAS symposium
- 2018 **STEM outreach:** created and delivered lesson on climate change and ecosystems to 7th grade class
- 2017 **Volunteer GK-12 STEM teacher:** Presented topics on marine and freshwater biology to grade 8 science at Westmount Middle School
Science fair: Served as judge for Westmount Middle School's Science Fair grade 5
- 2014 **Career mentor:** Founding and contributing author of 'How To...' series instruction manual for beginning a career in science and natural resources for the American Fisheries Society
Undergraduate mentor: Served as mentor for San Diego State University alumni program and undergraduate Jordan Buxton majoring in marine biology
Career fair: Exhibitor for conservation biology careers to Crescent Heights High School in *Calgary, AB*
- 2013 **STEM: Advisory board:** Served on advisory board with 21st CCLC (at-risk youth STEM-education) to communicate with stakeholders on education objectives met and future initiatives - ([online](#))
Career presentation: Presented marine science careers to Alachua County 4-H students interested in natural resource management
Outreach volunteer: Teach and guide families and disabled children on angling techniques, fish and Florida's lakes for Florida Lakewatch Fishing for Success
- 2012 **Expert reviewer:** Reviewed educational/scientific merit for 'Gone Fishing!' activity for the non-profit group The Council for Environmental Education's Project WILD K-12 conservation-educational program
Day at the Museum: Led planning for public event partnering fisheries, wildlife, and forestry graduate students and the Florida Museum of Natural History to present research in Florida natural resources to 1,355 community members
Volunteer GK-12 STEM teacher: Led partnership between SURF (graduate organization) and 21st CCLC to teach 100+ youth at-risk students from four middle schools about aquatic ecology, fish diversity and population dynamics to increase cognizance in STEM disciplines - ([online](#))
Volunteer GK-12 STEM teacher: Volunteered to host and teach 60+ Alachua County students on a visit to FAS freshwater ponds and give lessons on freshwater ecology and dissolved oxygen issues in Florida lakes
Volunteer GK-12 STEM teacher: Taught hands-on fish ecology demonstrations providing applied lesson in non-linear mathematics to Lincoln middle school science students
Career presentation: Presented science careers and graduate research experience to UF's Society of Women Engineers and Society of Hispanic Engineers interested in research
- 2011 **Science fair mentor:** Mentored four at-risk, minority students at Lincoln middle school in science fair projects on Floridian aquifers and invited/led seven graduate science mentors to program
- 2010 **Career presentation:** Presented marine conservation careers to students at Chesterton Elementary School

Conservation & policy extension:

- 2022 **Review for CSAS and DFO science:** participating peer reviewer and Science Advisory Report on the Guidelines for Defining Limit Reference Points for Salmon Stock Management Units
Berland-Wildhay Connectivity Plan: participating advisory panel for planning watershed connectivity initiatives for the Berland-Wildhay Watersheds in Alberta on behalf of the Lac Ste. Anne Métis Community Association
- 2021 **Review for CSAS and DFO stock assessment:** participating peer reviewer and Science Advisory Report on Yellowmouth Rockfish (*Sebastes reedi*) stock assessment for British Columbia in 2021
Reviewing TMX pipeline expansions: provided expert review on behalf of the Lac Ste. Anne Métis Community Association regarding the TMX pipeline project affecting critical habitat of SARA-listed Athabasca River Rainbow Trout populations
Reviewing NGTL pipeline expansions: provided expert review on behalf of the Lac Ste. Anne Métis Community Association regarding the expansion to the Nova Gas Transmission Ltd. pipeline system affecting critical habitat of SARA-listed Bull Trout and Athabasca River Rainbow Trout populations

- Indigenous Knowledge framework:** coauthored memos alongside the Lac Ste. Anne Métis Community Association submitted to Fisheries & Oceans Canada for incorporating Indigenous Knowledge into revised Fisheries Act and Impact Assessment policies
- North and Central Coast coho assessments:** leading quantitative framework for assessing fishery risks and status for 52 coho populations along the NCC of British Columbia alongside CCIRA, Wild Salmon Center, and Fisheries & Oceans Canada
- 2020 **Understanding and monitoring salmon harvest for Haízaqv Nation:** co-developing framework for community-based monitoring of the spatial harvest patterns in the recreational and FSC Chinook and Coho salmon fisheries using dockside interviews in Bella Bella, BC
- Community meeting with Adams Lake Indian Band:** present consequences of the Trans Mountain Pipeline Expansion Project in the North Thompson watershed to ALIB Chief & Council and community in Chase, BC
- 2019 **Identifying potential impacts to Salmon fisheries from the TMX pipeline:** quantifying potential impacts and risks to salmon fisheries from TMX on behalf of Adams Lake Indian Band
- Building capacity for sustainable lake trout management:** working with Parks Canada, BC FLNRO, UCalgary, UToronto, Ontario Ministry of Natural Resources, and Alberta Environment & Parks to improve lake trout management in Canada's National Parks
- 2018 **BC wild salmon strategy:** coauthored letter to Wild Salmon Advisory Council on scientific advice and insight for conservation strategy
- Lake trout management:** Partnering with BC FLNRO and ENVYUK to develop new management options for managing BC and Yukon lake trout fishery
- 2017 **Rainbow trout management:** Workshop with FFSBC and BC FLNRO to discuss management and stocking practices for BC rainbow trout fishery
- Invasive black bass control:** Meeting with BC FLNRO to discuss management options for controlling invasive black bass in British Columbia
- 2016 **Lake trout management:** Workshop and presentation given to BC FLNRO to discuss evaluating and managing lake trout fishery in BC and Yukon
- 2013 **UF Levin College of Law:** Presentation entitled 'Fisheries & Sustainability' given to Levin College of Law's environmental program
- 2012 **Oyster Recovery Task Force:** Volunteer member of the Fisheries group and Environmental group working under UF/IFAS and Dr. Karl Havens to evaluate mechanisms for 2012 Apalachicola oyster fishery collapse
- Other:**
- 2017 **R Fridays:** Developed and co-organized biweekly open-house BISI meetings to discuss topics in the R statistical language
- 2016 **Workshop instructor:** Led free workshop on JAGS software for Bayesian modelling applications for UCalgary ecology researchers
- 2015 **Discussion group coordinator:** Guided graduate student and faculty discussions on student well-being including work-life balance, surmounting the Imposter Syndrome, and how to approach data analyses
- 2013 **Discussion group coordinator:** Created and coordinated discussion with UCalgary's EEB graduate students on population ecology and eco-evolutionary dynamics
- 2012 **Discussion group coordinator:** Directed and planned monthly 'Food For Thought' discussion groups between UF faculty and graduate students on fisheries and ecological research
- 2009 **Field volunteer:** field survey and public presentation for biodiversity in Mission Trails Park coordinated with San Diego's Natural History Museum and BioBlitz
- 2008 **Education intern:** developed educational curriculum on conservation and animal science and led students (grades K-8) on trips for the San Diego Zoo's Wild Animal Park
- Graduate Forum:** participated in California's Diversity in Graduate Research Forum at UC Irvine

PROFESSIONAL SERVICE

Detailed editorial responsibilities on [Publons](#)

Guest editor:

Kyle Logan Wilson

Special issue in *Fisheries Research* for 8th World Recreational Fisheries Conference

Journal referee:

Global Change Biology, Proceedings of the Royal Society B, Journal of Applied Ecology, Ecological Applications, Fish and Fisheries, Evolution, Ecology & Society, PLOS One, Ecological Modelling, Fisheries, Canadian Journal of Fisheries and Aquatic Sciences, ICES Journal of Marine Science, Reviews in Fisheries Science and Aquaculture, Ecosphere, Ecology & Evolution, Fisheries Research, Aquatic Conservation: Marine and Freshwater Ecosystems, Journal of Fish Biology, Transactions of the American Fisheries Society, North American Journal of Fisheries Management, Marine and Coastal Fisheries, American Fisheries Society Books, Annales Zoologici Fennici, Environmental Monitoring and Assessment, Fisheries Management and Ecology, Journal of Environmental Planning, Lakes and Reservoirs: Research and Management, Neotropical Ichthyology, PeerJ, Southeastern Naturalist

Society membership:

American Fisheries Society, British Ecological Society, Association for the Sciences of Limnology and Oceanography, Canadian Committee For Fisheries Research

Science & academic service:

- 2022-26 Marine Fishes Species Sub-Committee Member for the Committee on the Status of Endangered Wildlife in Canada
- 2021 Watershed Futures Initiative: Science advisory panel
- 2016-18 Graduate Leader's Circle GANT serving UCalgary's scholarship community
- 2016 Co-host of Killam awards banquet alongside Dean of Faculty of Graduate Studies Dr. Lisa Young
- 2013-15 Student Representative for the Canadian Aquatic Resources Section of the American Fisheries Society – Educational Division Unit
- 2015 Seminar host: Dr. Robert Fletcher (UF); Dr. Paul Galpern (UCalgary)
- 2014-15 Conference abstract reviewer for 'Best Student Presentation' for the American Fisheries Society
- 2013 Past-President for Students United in Research of Fisheries (SURF)
- 2012 President of SURF
Seminar host: Wes Porak (FFWCC); Dr. Jennifer Rehage (FIU); Dr. Mark Brenner (UF)
Graduate Student Council Representative for UF's FAS program
- 2011 Fundraising Chairman for SURF

Service & planning committees served on:

- 2016-18 UCalgary's Rising Leaders Forum planning committee
- 2014 American Fisheries Society Annual Meeting Student Social Networking Event
- 2013 UCalgary's Ecology and Evolutionary Biology Winter Social
- 2012 SFRC New Student Orientation
Award Committee for Outstanding FAS Faculty
Planning Committee for FAS Graduate Student Symposium
Planning Committee for SFRC Spring Graduate Social

Conference & symposium service:

- 2017 Abstract reviewer and conference volunteer for 8th World Recreational Fisheries Conference
- 2014 Conference volunteer for Joint Aquatic Sciences Meeting
- 2013 Food service committee member for 16th annual UF's FAS Graduate Symposium
Conference volunteer for Southern Division AFS Spring Meeting
- 2012 Conference volunteer for 23rd annual Florida Lake Management Society Conference
Keynote and food committee chair for 15th annual UF's FAS Graduate Symposium
Conference volunteer for Southern Division AFS Spring Meeting
- 2011 Symposium volunteer for 14th annual UF's FAS Graduate Symposium