

Scott Fitzgerald Colborne

Department of Wildlife, Fish, and Conservation Biology,
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Education

- 2009 – 2013 **Ph.D. Biology** (Ecology and Evolution)
Department of Biology
The University of Western Ontario (London, ON Canada)
Supervisors: Dr. Bryan Neff & Dr. Fred Longstaffe
Thesis title: Foraging ecology, sexual selection, and divergence in sunfish (*Lepomis* spp.)
- 2006 – 2008 **M.Sc. Zoology**
Department of Integrative Biology
University of Guelph (Guelph, ON Canada)
Supervisor: Dr. Beren Robinson
Thesis title: Resource-mediated intraspecific competition and adaptive divergence of pumpkinseed sunfish (*Lepomis gibbosus*)
- 2002 – 2006 **B.Sc. Zoology**
Department of Biology
University of Guelph (Guelph, ON Canada)

Professional Appointments

- 2020 – **Post-doctoral Fellow**
Department of Wildlife, Fish, and Conservation Biology,
University of California - Davis (Davis, CA USA)
Primary Investigators: Dr. Andrew Rypel (UC Davis), Dr. Jonathon Walters
(University of Virginia), Dr. Daniel Reuman (University of Kansas)
- 2019 – 2020 **Research Biologist & Instructor**
Daniel P. Haerther Center for Conservation & Research
Shedd Aquarium (Chicago, IL USA)
Supervisor: Dr. Karen Murchie
- 2017 – 2019 **Research Associate**
Michigan State University (East Lansing, MI USA)
& US Geological Survey Great Lakes Science Center (Ann Arbor, MI USA)
Primary Investigators: Dr. Charles Krueger (Michigan State University) & Dr. Darryl
Hondorp (US Geological Survey – Great Lakes Science Center)

- 2018 – **Adjunct Faculty**
Great Lakes Institute for Environmental Research
University of Windsor (Windsor, ON Canada)
- 2014 – 2017 **Post-Doctoral Fellow & Research Associate**
Great Lakes Institute for Environmental Research
University of Windsor (Windsor, ON Canada)
Primary Investigator: Dr. Aaron Fisk

Teaching Experience

- 2020 **Shedd Aquarium & Associated Colleges of the Chicago Area – *Freshwater Ecology***;
Undergraduate course (3rd and 4th year level)
- 2016 **University of Windsor – *Ecosystem Health* (66-415)**; Undergraduate course (4th year level)
- 2015 **University of Windsor - *Introduction to Environmental Sciences* (66-141)**; Undergraduate course for non-biology majors (1st year level)
- 2014 – 2016 **University of Windsor (Course Development and Field Instructor) - *Field Methods in Environmental Science* (66-380)**; Undergraduate course (3rd year level)
- 2009 – 2013 **The University of Western Ontario Teaching Assistant** – Taught in senior level undergraduate courses leading laboratory sessions, consulting on independent research projects, and grading for ecology and animal behavior courses.
- 2006 – 2008 **University of Guelph Teaching Assistant** – Taught introductory and senior level undergraduate courses leading laboratory sessions, consulting on independent research projects, and grading for general ecology and fish ecology courses.

Peer-Reviewed Publications

* indicates mentored undergraduate or graduate student co-authors

- (26) Wu, Y.*, **Colborne, S.F.**, Charron, M., and Heath, D.D. (*in press*) Development and validation of targeted environmental DNA (eDNA) metabarcoding for early detection of 69 invasive fishes and aquatic invertebrates. *Environmental DNA*.
- (25) Larocque, S.M., **Colborne, S.F.**, Fisk, A.T., and Johnson, T.B. (2022) Improving trophic niche and diet resolution of the salmonid community of Lake Ontario using three stable isotopes and multiple tissues. *Fisheries Research*. 255:106455. doi: 10.1016/j.fishres.2022.106455
- (24) **Colborne, S.F.**, Sheppard, L.W., O'Donnell, D.R., Reuman, D.C., Walter, J.A., Singer, G.P., Kelly, J.T., Thomas, M.J., and Rypel, A.L. (2022) Intraspecific variation in migration timing of green sturgeon in the Sacramento River system. *Ecosphere*. e4139. doi: 10.1002/ecs2.4139

- (23) Matley, J.K., Klinard, N.V., Larocque, S.M., Weinz, A.A.*, and **Colborne, S.F.** (2022) Space use of juvenile and subadult yellow perch (*Percia flavescens*) in the Detroit River using acoustic telemetry: incorporating variable detection ranges in vegetated areas. *Canadian Journal of Fisheries and Aquatic Sciences*. 79(1): 63-72. doi: 10.1139/cjfas-2020-0425
- (22) **Colborne, S.F.**, Hayden, T.A., Holbrook, C.M., Hondorp, D.W., Krueger, C.C. (2021) Lake sturgeon (*Acipenser fulvescens*) annual survival estimated from acoustic telemetry. *Journal of Great Lakes Research*. 47(6): 1814-1823. doi: 10.1016/j.jglr.2021.08.007
- (21) Futia, M., **Colborne, S.F.**, Fisk, A.T., Gorsky, D., Johnson, T.J., Lantry, B., Lantry, J., and Rinchard, J. (2021) Similarities and differences among three diet analyses provide insight into feeding habits of a freshwater piscivore, *Salvelinus namaycush*. *Ecological Indicators* 127: 107728. doi: 10.1016/j.ecolind.2021.107728
- (20) Weinz, A.A.*, Klinard, N.V., Matley, J.K., Fisk, A.T., and **Colborne, S.F.** (2021) Performance of acoustic telemetry in relation to submerged aquatic vegetation in a nearshore freshwater habitat. *Marine and Freshwater Research* 72: 1033-1044. doi: 10.1071/MF20245
- (19) Weinz, A.A.*, Klinard, N.V., J.K. Matley, Fisk, A.T., and **Colborne, S.F.** (2020) Identification of predation events in wild fish using novel acoustic transmitters. *Animal Biotelemetry* 8(1): 1-14. doi: 10.1186/s40317-020-00215-x
- (18) Nawrocki, B., McLeod, A.M., **Colborne, S.F.**, Hussey, N.E., Del Papa, J., and Fisk, A.T. (2020) Assessing trophic position quantification methods for three piscivorous freshwater fish using stable isotopes and stomach contents. *Journal of Great Lakes Research* 46(3): 578-588. doi: 10.1016/j.jglr.2020.03.017
- (17) **Colborne, S.F.**, Hondorp, D.W., Holbrook, C.M., Lowe, M.R., Boase, J.C., Chiotti, J.A., Wills, T.C., Roseman, E.F., and Krueger, C.C. (2019) Sequence analysis and acoustic tracking individual lake sturgeon identifies multiple patterns of river-lake habitat use. *Ecosphere* 10(12): e02983. doi: 10.1002/ecs2.2983
- (16) Heuvel, C., Haffner, D., Zhao, Y., **Colborne, S.F.**, Despenic, A., and Fisk, A.T. (2019) Influence of body size and season on the feeding ecology of three freshwater fishes with different diets in Lake Erie. *Journal of Great Lakes Research* 45(4): 795-804. doi: 10.1016/j.jglr.2019.05.001
- (15) **Colborne, S.F.**, Maguire, T., Mayer, B., Nightingale, M., Enns, G.E., Fisk, A.T., Drouillard, K.G., Mohamed, M.N., Weisener, C.G., Wellen, C., and Mundle, S.O.C. (2019) Water and sediment as sources of phosphate in aquatic ecosystems: the Detroit River and its role in the Laurentian Great Lakes. *Science of the Total Environment* 647: 1594-1603. doi: 10.1016/j.scitotenv.2018.08.029
- (14) Klinard N.V. *, Fisk, A.T., Kessel S.T., Halfyard, E.A., and **Colborne, S.F.** (2018) Habitat use and small-scale movement patterns of sympatric sunfish species in a large temperate river. *Canadian Journal of Fisheries and Aquatic Sciences* 75(7): 1059-1069. doi: 10.1139/cjfas-2017-0125
- (13) **Colborne, S.F.**, Fisk, A.T., and Johnson, T.B. (2017) Tissue-specific turnover and diet-tissue discrimination factors of carbon and nitrogen isotopes of a common forage fish held at two temperatures. *Rapid Communications in Mass Spectrometry* 31(7): 1405-1414. doi: 10.1002/rcm.7922

- (12) Jarvis, W.M.C., Comeau, S.M., **Colborne, S.F.**, and Robinson, B.W. (2017) Flexible mate choice may contribute to ecotype assortative mating in pumpkinseed sunfish (*Lepomis gibbosus*). *Journal of Evolutionary Biology* 30(10): 1810-1820. doi: 10.1111/jeb.13127
- (11) Peiman, K.S., Birnie-Gauvin, K., Larsen, M.H., **Colborne, S.F.**, Gilmour, K.M., Aarestrup, K., Willmore, W.G., and Cooke, S.J. (2017) Morphological, physiological and dietary covariation in migratory and resident adult brown trout (*Salmo trutta*). *Journal of Zoology* 123: 79-90. doi: 10.1016/j.zool.2017.07.002
- (10) Halfyard, E.A., Webber, D., del Papa, J., Leadley, T., Kessel, S.T., **Colborne, S.F.**, and Fisk, A.T. (2017) Evaluation of an acoustic telemetry transmitter designed to identify predation events. *Methods in Ecology and Evolution* 8(9): 1063-1071. doi: 10.1111/2041-210X.12726
- (9) Nawrocki, B., **Colborne, S.F.**, Yurkowski, D.J., and Fisk, A.T. (2016) Foraging ecology of Bowfin (*Amia calva*), in the Lake Huron-Erie Corridor of the Laurentian Great Lakes: individual specialists in generalist populations. *Journal of Great Lakes Research* 42(6): 1452-1460. doi: 10.1016/j.jglr.2016.08.002
- (8) **Colborne, S.F.**, Rush, S.A., Paterson, G., Johnson, T.B., Lantry, B.F., and Fisk, A.T. (2016) Estimates of lake trout (*Salvelinus namaycush*) diet in Lake Ontario using two and three isotope mixing models. *Journal of Great Lakes Research* 42(3): 695-702. doi: 10.1016/j.jglr.2016.03.010
- (7) **Colborne, S.F.**, Garner, S.R., Longstaffe, F.J., and Neff, B.D. (2016) Assortative mating but no evidence of genetic divergence in a species characterized by a trophic polymorphism. *Journal of Evolutionary Biology* 29:633-644. doi: 10.1111/jeb.12812
- (6) **Colborne, S.F.**, Clapp, A.D.M.*, Longstaffe, F.J., and Neff, B.D. (2015) Foraging ecology of native pumpkinseed sunfish (*Lepomis gibbosus*) following the invasion of zebra mussels (*Dreissena polymorpha*). *Canadian Journal of Fisheries and Aquatic Sciences* 72(7): 983-990. doi: 10.1139/cjfas-2014-0372
- (5) Berchtold, A.*, **Colborne, S.F.**, Longstaffe, F.J., and Neff, B.D. (2015) Ecomorphological patterns linking morphology and diet across three populations of pumpkinseed sunfish (*Lepomis gibbosus*). *Canadian Journal of Zoology* 93(4): 289-297. doi: 10.1139/cjz-2014-0236
- (4) **Colborne, S.F.**, Hain, T.J.A, Longstaffe, F.J., and Neff, B.D. (2015) The potential for less invasive inference of resource use: covariation in stable isotope composition between females and their eggs in bluegill. *Transactions of the American Fisheries Society* 144: 283-291. doi: 10.1080/00028487.2014.986337
- (3) **Colborne, S.F.**, Peres-Neto, P.R., Longstaffe, F.J., and Neff, B.D. (2013) Effects of foraging and sexual selection on ecomorphology of a fish with alternative reproductive tactics. *Behavioral Ecology* 24(6): 1339-1347. doi: 10.1093/beheco/art072
- (2) **Colborne, S.F.**, and Robinson, B.W. (2013) Effect of nutritional condition on variation in $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ stable isotope values in pumpkinseed sunfish (*Lepomis gibbosus*) fed different diets. *Environmental Biology of Fishes* 96(4): 543-554. doi: 10.1007/s10641-012-0040-3
- (1) **Colborne, S.F.**, Bellemare, M.C., Peres-Neto, P.R., and Neff, B.D. (2011) Morphological and swim performance variation among reproductive tactics of bluegill sunfish (*Lepomis macrochirus*). *Canadian Journal of Fisheries and Aquatic Sciences* 68(10): 1802-1810. doi: 10.1139/f2011-091

Submitted

Walter, J.A., Singer, G.P., Reuman, D.C., **Colborne, S.F.**, Sheppard, L.W., O'Donnell, D.R., Coombs, N., Johnston, M., Miller, E.A., Steel, A.E., Kelly, J.T., Fangue, N.A., and Rypel, A.L. Habitat use differences mediate anthropogenic threat exposure in white sturgeon. *Transactions of the American Fisheries Society*.

Sobchak, P., **Colborne, S.F.**, and Robinson, B.W. Effects of niche diversification on the performance of age-0 pumpkinseed sunfish (*Lepomis gibbosus*) habitat ecotypes. *Evolutionary Ecology*.

Contributed Presentations & Invited Seminars

Includes only presentations with SFC as first or presenting author

- (31) **Colborne, S.F.** (2022) Ecology and conservation of large fish: Sturgeon in the Great Lakes and Sacramento River. *University of Virginia*. Charlottesville, Virginia (Invited Seminar Speaker)
- (30) **Colborne, S.F.** (2022) Using biotelemetry to inform ecology and conservation of sturgeon: Examples from the Great Lakes and Sacramento River. *California State University, Fresno*. Fresno, California (Invited Seminar Speaker)
- (29) **Colborne, S.F.** (2021) Using biotelemetry to inform ecology and conservation of sturgeon: examples from the Great Lakes and Sacramento River. *University of Kansas: Kansas Biological Survey & Center for Ecological Research*. Lawrence, Kansas (Invited Seminar Speaker)
- (28) **Colborne, S.F.**, Hondorp, D.W., Holbrook, C., Hayden, T.A., and Krueger, C.C. (2020) Estimating survival of lake sturgeon in the Huron-Erie Corridor using acoustic tag detections. *Annual Great Lakes Acoustic Telemetry Observation System (GLATOS) Meeting*; Ann Arbor, Michigan (Oral Presentation)
- (27) **Colborne, S.F.**, Hondorp, D.W., and Krueger, C.C. (2019) Sequence analysis of acoustic telemetry data identifies multiple lake sturgeon habitat use patterns in the Laurentian Great Lakes. *International Conference for Fish Telemetry*, Arendal, Norway (Oral Presentation)
- (26) **Colborne, S.F.**, Hondorp, D.W., and Krueger, C.C. (2019) Sequence analysis identifies multiple habitat use patterns by lake sturgeon in the Huron-Erie Corridor. *Annual Great Lakes Acoustic Telemetry Observation System (GLATOS) Meeting*; Ann Arbor, Michigan (Oral Presentation)
- (25) **Colborne, S.F.**, Hondorp, D.W., and Krueger, C.C. (2019) Acoustic telemetry and management of behaviorally diverse lake sturgeon in the Huron-Erie Corridor. *79th Midwest Fish and Wildlife Conference*, Cleveland, Ohio (Oral Presentation)
- (24) **Colborne, S.F.**, Hondorp, D.W., and Krueger, C.C. (2018) Habitat use and timing of lake sturgeon (*Acipenser fulvescens*) movement in the Huron-Erie Corridor. *American Fisheries Society (AFS)*; Atlantic City, New Jersey (Oral Presentation)
- (23) **Colborne, S.F.**, Hondorp, D.W., and Krueger, C.C. (2018) Periodicity and timing of lake sturgeon (*Acipenser fulvescens*) movement in the Huron-Erie Corridor. *International Association for Great Lakes Research (LAGLR)*; Toronto, Ontario (Oral Presentation)
- (22) Fisk, A.T., Klinard, N., Kessel, S.T., Halfyard, E.A., and **Colborne, S.F.** (2018) Fish movement in urban rivers: habitat use of bowfin and largemouth bass in the Detroit River. *International Association for Great Lakes Research (LAGLR)*; Toronto, Ontario (Oral Presentation)

- (21) **Colborne, S.F.**, Hondorp, D.W., and Krueger, C.C. (2018) Seasonal habitat use of lake sturgeon in the Huron-Erie Corridor. *Annual Great Lakes Acoustic Telemetry Observation System (GLATOS) Meeting*; Ann Arbor, Michigan (Oral Presentation)
- (20) **Colborne, S.F.**, Klinard, N.V., Kessel, S.T., Halfyard, E.A., and Fisk, A.T. (2017) Fish movement in urbanized ecosystems: using acoustic telemetry to monitor two piscivores in the Detroit River. *International Conference for Fish Telemetry*; Cairns, Australia (Oral Presentation)
- (19) **Colborne, S.F.**, Dao, M., Nightingale, M., Enns, G., Mayer, B., Fisk, A.T., and Mundle, S. (2017) Investigating the distribution and deposition of nutrients in the Detroit River. *International Association for Great Lakes Research (LAGLR)*; Detroit, Michigan (Poster Presentation)
- (18) **Colborne, S.F.**, Halfyard, E.A., Kessel, S.T., Klinard, N., and Fisk, A.T. (2017) Fish movement in urbanized ecosystems: using acoustic telemetry to monitor fish in the Detroit River. *International Association for Great Lakes Research (LAGLR)*; Detroit, Michigan (Oral Presentation)
- (17) **Colborne S.F.**, Kessel S.T., Halfyard E.A., and Fisk A.T. (2017) Fish in the city: habitat use in urban aquatic ecosystems. *Water@Wayne Seminar Series*; Wayne State University; Detroit, Michigan (Invited Seminar Speaker)
- (16) **Colborne S.F.**, Kessel S.T., Halfyard E.A., and Fisk A.T. (2017) Fish movement in urbanized ecosystems: piscivores and forage fish in the Detroit River. *Annual Great Lakes Acoustic Telemetry Observation System (GLATOS) Meeting*; Ann Arbor, Michigan (Oral Presentation)
- (15) **Colborne S.F.**, Kessel S.T., Halfyard E.A., and Fisk A.T. (2016) Using acoustic telemetry to monitor bowfin and largemouth bass in the Detroit River. *International Association for Great Lakes Research (LAGLR)*; Guelph, Ontario (Oral Presentation)
- (14) **Colborne, S.F.**, Klinard, N., Kessel, S.T., Halfyard, E.A., and Fisk, A.T. (2016) Habitat use of predator & prey species in the Detroit River: lessons from year one of a multi-species acoustic array. *Annual Great Lakes Acoustic Telemetry Observation System (GLATOS) Meeting*; Ann Arbor, Michigan (Oral Presentation)
- (13) **Colborne, S.F.**, Swanson, H.K., Lysy, M.K., and Fisk, A.T. (2015) The application of multi-dimensional isotopic data to resource use and niche modelling of aquatic communities. *American Fisheries Society (AFS) Annual Meeting*; Portland, Oregon (Oral Presentation)
- (12) **Colborne, S.F.**, Barkley, A., and Fisk, A.T. (2015) Establishing tissue discrimination values for the use of sulphur isotopes ($\delta^{34}\text{S}$) in freshwater systems. *International Association for Great Lakes Research (LAGLR)*; Burlington, Vermont (Oral Presentation)
- (11) **Colborne, S. F.**, Rush, S. A., Johnson, T. B., Paterson, G. and Fisk, A. T. (2015) The addition of sulphur stable isotopes to studies of lake trout foraging in Lake Ontario. *Canadian Conference for Fisheries Research (CCFFR)*; Ottawa, Ontario (Oral Presentation)
- (10) **Colborne, S.F.** (2014) Sympatric speciation: foraging ecology and sexual selection in pumpkinseed sunfish. *Queen's University EEB Seminar*; Department of Biology (Invited Seminar Speaker)
- (9) **Colborne, S.F.** (2014) Foraging ecology, sexual selection, and speciation in sunfish. *Queen's University Biological Station*; Public Seminar (Invited Seminar Speaker)

- (8) **Colborne, S.F.**, Garner, S.R., Longstaffe, F.J., and Neff, B.D. (2014) Assortative mating and divergence in a fish characterized by a trophic polymorphism. *Genomes to Biomes – Joint CSEE & CSZ Annual Meeting*; Montreal, Quebec (Oral presentation)
- (7) **Colborne, S.F.**, Longstaffe, F.J., and Neff, B.D. (2013) Beyond Just What You Eat: Foraging ecology, sexual selection and speciation. *Ithaca College Seminar Series, Department of Biology*; Ithaca, New York (Invited Seminar Speaker)
- (6) **Colborne, S.F.**, Longstaffe, F.J., and Neff, B.D. (2013) Assortative mating and sympatric speciation of pumpkinseed sunfish (*Lepomis gibbosus*). Ontario Ecology, Ethology and Evolution Colloquium; London, Ontario (Oral presentation)
- (5) **Colborne, S.F.**, Longstaffe, F.J., and Neff, B.D. (2012) Foraging ecology of native pumpkinseed sunfish (*Lepomis gibbosus*) following the invasion of zebra mussels (*Dreissena polymorpha*). 8th International Conference on Application of Stable Isotope Techniques to Ecological Studies (IsoEcol 2012); Brest, France (Poster presentation)
- (4) **Colborne, S.F.**, Longstaffe, F.J., and Neff, B.D. (2012) Sexual selection meets foraging ecology: alternative reproductive tactics in bluegill sunfish. *First Joint Congress in Evolution*; Ottawa, Ontario (Oral presentation)
- (3) **Colborne, S.F.**, and Robinson, B.W. (2009) The effects of diet and starvation on stable isotope signatures of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in pumpkinseed sunfish (*Lepomis gibbosus*). *Canadian Society of Zoologists Annual Meeting*; Scarborough, Ontario (Oral presentation)
- (2) **Colborne, S.F.**, and Robinson, B.W. (2008) Field experimental test of competition between sympatric sunfish ecomorphs. *Canadian Society for Ecology and Evolution Annual Meeting*; Vancouver, British Columbia (Oral presentation)
- (1) **Colborne, S.F.**, and Robinson, B.W. (2008) Field experimental test of competition between sympatric sunfish ecomorphs. *Ontario Ecology and Ethology Colloquium*; Guelph, Ontario (Oral presentation)

Student Mentoring

University of Windsor – Great Lakes Institute for Environmental Research

- 2017 – 2020 Amy Weinz (MSc student co-supervised w/ Dr. Aaron Fisk) – *Predation risk and habitat use of juvenile yellow perch in the Detroit River*
- 2015 – 2021* Yueyang Wu (MSc student co-supervised w/ Dr. Daniel Heath) – *The development and application of targeted metabarcoding for monitoring freshwater and marine AIS*
*extended time period for MSc includes periods of medical leave
- 2016 Marguerite Gagnon (Undergraduate thesis student w/ Dr. Aaron Fisk and Dr. Sarah Larocque) – *Trophic ecology of Arctic char from Nunavut's largest lake*
- 2016 Grace Enns (Undergraduate thesis student w/ Dr. Aaron Fisk and Dr. Scott Mundle) – *Nutrient profiles along the Detroit River: an urbanized Great Lakes connecting channel*
- 2015 Natalie Klinard (Undergraduate thesis student w/ Dr. Aaron Fisk) – *Movement and habitat use of two forage fishes in the Detroit River using acoustic telemetry*

2015 Matthew Antaya (Undergraduate thesis student w/ Dr. Aaron Fisk) - *Small-scale spatial-temporal variation in benthic invertebrate communities & stable isotopes ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) in the Detroit River*

2015 Stephanie Howes (Undergraduate thesis student w/ Dr. Aaron Fisk) – *Comparison of stable isotopes between lethal and non-lethal tissue samples of four freshwater piscivores*

The University of Western Ontario

2011 – 2012 Adrienne Berchtold (Undergraduate thesis student w/ Dr. Bryan Neff) - *Foraging ecomorphology of pumpkinseed sunfish (*Lepomis gibbosus*): variation of pharyngeal jaw and gill raker structure in relation to diet within and across populations*

2010 – 2011 Adrianna Clapp (Undergraduate thesis student w/ Dr. Bryan Neff) - *Adaptations of the native pumpkinseed sunfish to the invasive zebra mussel*

Grants

UC Davis Center for Watershed Science – Synthesis Incubator Projects. Investigators: Jonathan Walter, J.A., **Colborne, S.F.**, Tracy, E., Fangue, N., Kelly, J.T., Yarnell, S., Bellido-Leiva, F., and Börk, K. “Towards an individual-based model of green sturgeon and water management in Central California” (*under review*) Value \$39,977 USD

Great Lakes Fishery Commission – Pilot Project. Investigators: **Colborne, S.F.**, Hondorp, D.W., Murchie, K., Roseman, E., and Fisk, A.T. “Feasibility of using acoustic telemetry to determine spatial use of round goby at artificial spawning reefs built for native fishes” (2020) Value \$19,880 USD (project extended due to covid-19 fieldwork restrictions; start date spring 2022).

Great Lakes Fishery Commission – Pilot Project. Investigators: Hondorp, D.W., Yule, D.L., Hayden, T.A., **Colborne S.F.**, Lowe, M.R., and Gorsky, D. “Feasibility of acoustic telemetry to estimate spawning site fidelity of cisco in western Lake Superior” (2019) Value \$19,898.00 USD.

Honors & Awards

(6) Dr. John W. Arnold Fellowship – Ph.D. Thesis Award, Department of Biology, University of Western Ontario (2014) Value \$1,300 CDN.

(5) Province of Ontario Graduate Scholarship (2012) Value \$15,000 CDN.

(4) Dr. Irene Uchida Fellowship in Life Sciences, Faculty of Science, University of Western Ontario (2012) Value \$3,000 CDN.

(3) Robert and Ruth Lumsden Graduate Award in Science, Department of Biology, University of Western Ontario (2012) Value \$1,000 CDN.

(2) Queen Elizabeth II Graduate Scholarship in Science and Technology, Province of Ontario (2011) Value \$10,000 CDN.

- (1) Graduate Thesis Research Fund Awards, Faculty of Science, University of Western Ontario (2010,2011)
Value \$1,250 CDN over two awards.

Professional Development & Public Outreach

- 2020 Detroit Free Press article, “*New trackers are being put on small Great Lakes fish*” – Published Aug. 24, 2020
- 2020 Shedd Aquarium Blog Stories, “*Great Lakes Invasive Species: 180 and Counting*” – Published Feb. 20, 2020 & “*Great Lakes Invasives: Sea Lampreys*” – Published Mar. 3, 2020
- 2020 WTTW Chicago television interview, “*New Shedd Scientist Studies Impact of Invasive Species in Lake Michigan*” – Aired Jan. 2, 2020
- 2019 Co-chair session “*Use of acoustic telemetry to inform fisheries management across midwestern US and Canada*”; 79th Midwest Fish and Wildlife Conference; Cleveland, Ohio
- 2018 & 2019 Organization of Great Lakes Acoustic Telemetry Observation System (GLATOS) Annual Co-ordination Meeting; Ann Arbor, Michigan
- 2012 – 2013 Co-chair Ontario Ecology, Ethology, and Evolution Colloquium
The University of Western Ontario, London, Ontario
- 2010 – 2011 Faculty of Science Decanal Review and Selection Committee, Graduate student representative; The University of Western Ontario, London, Ontario
- 2007 – 2008 Ontario Ecology and Ethology Colloquium, Graduate student organizer
University of Guelph, Guelph, Ontario

Professional Organizations and Affiliations

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| International Association for Great Lakes Research | American Fisheries Society |
| Great Lakes Acoustic Telemetry Observation System | Canadian Society for Ecology and Evolution |