
KARA L. LEFEVRE MSc, PhD

Department of Ecology and Environmental Studies, Florida Gulf Coast University

Nationality: Canadian with work status in USA **Languages:** English (maternal), French (fluent)

Professional expertise: professor, scientist, environmental educator, writer, policy advisor

Disciplines: Conservation Biology, Ecology, Environmental Studies, Ornithology, Natural Resources

Education

- 2008 **PhD Ecology and Evolutionary Biology**, with joint degree in Environmental Studies, University of Toronto, Canada. *Course focus:* forest ecology, evolutionary ecology, policy and planning. *Dissertation:* Influence of human disturbance on avian frugivory and seed dispersal in a Neotropical rainforest, Tobago, W.I. (Advisor: FH Rodd)
- 1996 **MSc Biology**, Queen's University, Canada. *Course emphases:* conservation biology, evolutionary biology. *Thesis:* Parent-offspring communication in a seabird colony, Nunavut, Canada (Advisors: RD Montgomerie and AJ Gaston)
- 1994 **BSc Biology** (Dean's Honour List), University of Guelph, Canada
Course emphases: botany, ecology, wildlife biology, zoology
Thesis: Basking ecology of Painted Turtles (Advisor: RJ Brooks).

Academic Appointments

- Aug 2019– **Chair, newly formed Department of Ecology and Environmental Studies**
and **Coordinator for MA Program in Environmental Studies**
Florida Gulf Coast University, Fort Myers, FL, USA
- 2018–19 **Program Coordinator for BA in Environmental Studies**
Florida Gulf Coast University, Fort Myers, FL, USA
- Aug 2015– **Assistant Professor of Conservation Biology**, Department of Marine and
Ecological Sciences, Florida Gulf Coast University, Fort Myers, FL, USA

Fellowships

- 2018 **Writing Residency in Environmental Reportage**, Banff Centre for Arts and Creativity, Banff, Alberta, Canada. Two-week competitive summer residency.
- 2009–11 **Postdoctoral Teaching Scholar, FIRST IV Program**, Michigan State University.
- 2007–10 **Postdoctoral Research Fellow**, Boreal Avian Modelling Project,
Université Laval (Québec, QC) and *University of Alberta* (Edmonton, AB).
+ Member / Postdoc, Centre d'étude de la forêt, Province du Québec

Scholarship: Publications

Lefevre, KL & AD Smith. Florida's strategic position for collaborative automated-telemetry tracking of avian movements across the Americas. *In revision: Journal of Fish and Wildlife Management*. Manuscript #: 082019-JFWM-068, accepted Dec 30/19.

Wolfe, EP, KL Lefevre & K Lang. 2020. Expansion of Roseate Spoonbill breeding distribution in southern Florida. *In press: Florida Field Naturalist*, accepted Dec 14/19.

Lefevre, KL. 2019. Uplifted by These Wings. *Artis Natura* 3:1 (book review).

Lefevre, KL. 2018. Black Skimmer (*Rynchops niger*), *In* Neotropical Birds Online (T. S. Schulenberg, Editor). Cornell Laboratory of Ornithology, Ithaca, NY, USA.

Lefevre, KL. 2017. Ornithological literature: the new neotropical companion. *Wilson Journal of Ornithology* 129: 655-657. (* winner of 2018 Storrs Olson Award for the best book review of the year published in the journal)

Cumming SG, D Stralberg, KL Lefevre, P Sólomos, EM Bayne, S Fang, T Fontaine, D Mazerolle, FKA Schmiegelow & SJ Song. 2014. Climate and vegetation hierarchically structure patterns of songbird distribution in Canadian boreal region. *Ecography* 37:137-151.

Lefevre, KL, S Sharma & FH Rodd. 2012. Moderate human disturbance alters composition of rainforest plant and bird communities. *Biotropica* 44: 427-436.

Cumming, SG, KL Lefevre, E Bayne, T Fontaine, FKA Schmiegelow & SJ Song. 2010. Toward conservation of Canada's boreal forest avifauna: design and application of ecological models at continental extents. *Avian Conservation and Ecology* 5(2): 8. [online] URL: <http://www.ace-eco.org/vol5/iss2/art8/>

Lefevre, KL & FH Rodd. 2009. How human disturbance of tropical rainforest can influence avian fruit removal. *Oikos* 118: 1405-1415.

Lefevre, KL. 2005. Predation of a bat by American Crows, *Corvus brachyrhynchos*. *Canadian Field-Naturalist* 119: 443-444.

Lefevre, KL & VR Muehter. 2004. Competition for mating resources in a territorial damselfly (Odonata: Calopterygidae). *Studies on Neotropical Fauna and Environment* 39: 159-165.

Lefevre, K, AJ Gaston & RD Montgomerie. 2001. Repertoire, structure and individual distinctiveness of Thick-billed Murre calls. *Condor* 103: 134-142.

Burness, GP, KL Lefevre & CT Collins. 1999. Elegant Tern (*Sterna elegans*). *In* The Birds of North America, No. 404 (A Poole & F Gill, eds.). The Academy of Natural Sciences, Philadelphia and The American Ornithologists' Union, Washington, D.C. (Monograph series).

Lefevre, K, R Montgomerie & AJ Gaston. 1998. Parent-offspring Recognition in Thick-billed Murres (Aves: Alcidae). *Animal Behaviour* 55: 925-938.

Marcolongo, M & K Lefevre: Youth Environmental Groups and Related Resources. 1998. *Alternatives* 24:3.

Gaston, AJ, C Eberl, M Hipfner & K Lefevre. 1995. Adoption of chicks among Thick-billed Murres. *Auk* 112: 508-510.

Lefevre, K & RJ Brooks. 1995. Effects of sex and body size on basking behavior in a northern population of the Painted Turtle, *Chrysemys picta*. *Herpetologica* 51: 217-224.

Manuscripts submitted

Lefevre, KL. Re-nesting signals what's coming in Florida — a migrating migratory bird biologist's view of the coastal deep south (Banff Writing Residency). Submitted to *Herizons*, 9-26-2019.

Manuscripts in preparation

Gunnels et al., with Lefevre, KL and 16 alphabetical co-authors. Campus as a Living Laboratory. Chapter 9, *In: Making the Sustainable University: Trials and Tribulations* (K. Leone, E. Everham & S. Komisar, Editors). Book contract with Springer-Verlag; currently under external review.

Lefevre, KL & FH Rodd. The relationship between subsistence land use and bird-mediated seed dispersal in a Neotropical rainforest (for submission to *Ecosystems*).

Lefevre, KL. Using insects in a theme-based curriculum for teaching General Ecology to undergraduate students (for submission to *Journal of Natural History Education*).

Ramirez, L, A diNuovo & KL Lefevre. Patterns of seabird illness and mortality during a prolonged Red Tide (for submission to *PLoS One*).

Technical reports

Bovard, B, EM Everham III, CW Gunnels IV, J Herman and KL Lefevre. 2017. Status and monitoring of biodiversity on the Florida Gulf Coast University Campus. STARS report: self-reporting for the Sustainability Tracking, Assessment & Rating System, Association for the Advancement of Sustainability in Higher Education. 38 pp.

Cumming, S.G., K. Lefevre, and M. Leblanc. 2010. The Boreal Avian Modelling Project Avian Dataset: Structure and Descriptive Statistics.

Lefevre, KL. 2001. The case for protecting nature: a review of conservation science. Report for National Round Table on the Environment and the Economy, Ottawa. 25 pp.

Examples of popular science writing

Lefevre, KL. 2013-14. Commissioned to write a series of 18 articles written for a Costa Rica travel blog about the natural history of the Monteverde Cloud Forest (monteverdetours.com).

Lefevre, KL. 2013. The neurobiology behind a Sense of Place; The developing developmental biology of childhood adversity (brainblogger.com).

Lefevre, KL. 2013. Eugenie Clark, The Shark Lady (sharksider.com). Wrote a series of ~35 shark species accounts, and profiles of marine biology researchers and conservation issues.

Lefevre, K & GP Burness. 2000. Rare, local, little-known, and declining North American breeders. A Closer Look: Elegant Tern. *Birding* 32:146-153.

Vandermoer, J & K Lefevre. 1993. Post-secondary environmental studies. Earthkeeper 4:2.

Environmental articles in community newspapers (West Quebec Post 1997; The Ontarion 1991)

Research and Professional Experience

- 2015 **Migratory Bird Biologist**, Canadian Wildlife Service, Burlington, ON, Canada
Conducted research related to nest site selection and population conservation of colonial waterbirds in Lake Ontario and Lake Huron, with Dr. David Moore (Term position: spring 2015).
- 2011-15 **Principal**, Biotic Syntax, Hamilton, ON, Canada
After my postdoc while raising young children, I ran my own full-time consulting company that offered research, analysis, and writing services related to science and the environment.
- 2007-10 **Postdoctoral researcher and Project Ecologist**, Boreal Avian Modelling (BAM) Project, Université Laval, Québec and University of Alberta, Edmonton. (PIs: E Bayne, S Cumming, F Schmiegelow, and S Song). Contributed research, analysis and writing to a large-scale study of boreal forest bird distributions across North America. Collaboration of over 50 avian and boreal forest scientists, conservation organizations, industry and other diverse partners (www.borealbirds.ca).
- 2002-07 **PhD Candidate / Principal Investigator**, Ecology and Evolutionary Biology, University of Toronto and Tobago, West Indies. Conducted nine months of fieldwork in a tropical rainforest for doctoral study rainforest disturbance impacts on avian frugivory and seed dispersal. Initiated and developed a collaboration with Tobago's Environment Department. Hired and supervised four field assistants and one lab assistant during the course of three field seasons.
- 2005 **Research Associate**, Centre for Environment, University of Toronto (Dr D Macdonald). Conducted social science research for an analysis of Canada's national climate change policy, related to implementation of the Kyoto Protocol.
- 2001 **Consultant**, National Round Table on the Environment and the Economy, Ottawa
Conducted conservation science research for NRTEE's nature program.
- 1999 **Policy Advisor to federal Minister of the Environment**, House of Commons, Ottawa. Provided policy advice on environment issues and legislation including air pollution, toxic chemicals, and climate change. Functioned as liaison for MPs from Quebec. (Left for a prearranged year of environmental volunteer work and travel in southern Asia and eastern Africa, from December 1999 through December 2000).
- 1997-99 **Environment Policy Analyst**, National Liberal Caucus Research Bureau, Ottawa
Provided support to Members of Parliament and Senators on issues including protected areas, endangered species, toxic chemicals, climate change, and the Arctic.
- 1996-97 **Project Manager**, Canadian Environmental Network, Ottawa

- 1994-96 Coordinated a national environmental youth project: hired and managed 18 staff / \$400,000 project budget, supported 50 member groups, and organized a national youth conference.
- 1991-93 **Field Biologist**, Canadian Wildlife Service, Ottawa and Nunavut
Contributed to long-term research about arctic seabird demography at Coats Island.
Residence Staff, Student Housing Services, University of Guelph, Guelph, ON
. **Program Director**, La Maison Française: ran Living/Learning Center, 50 students
. **Residence Assistant**: provided supervision and mentorship to students
- 1989-2002 **Research Biologist and/or Field Assistant** for diverse studies of animal ecology, breeding biology, and behavior. Worked within Canadian government, multiple universities and private sector. Projects in diverse international locations within temperate, tropical and arctic environments, using diverse methodologies (see Skills Summary, last page of this CV) with a variety of focal taxa: small mammals, birds, turtles, fish, insects and plants. Field locations include northern, western and eastern Canada, Alaska, Panama, Trinidad and Tobago, and Madagascar.

Teaching Experience

Scholarship and professional development in Education

FGCU Faculty Learning Communities, Teaching workshops, Diversity and Inclusion training (2015–present): regularly attending series of workshops to learn new teaching approaches, offered by the Lucas Center for Faculty Development and other entities at FGCU. Most recent: sessions on Bias, Teaching Beautifully, Course Design (2019); Portfolio Workshop (2018).

SPARCT Academy and Faculty Learning Community, FGCU (2016-date): Professional development and scholarship in STEM teaching. Conducting ongoing research about teaching methods in undergraduate introductory Ecology.

FIRST IV Longitudinal Study (2016-2019): participant in NSF-funded follow-up study about impact of early-career professional development on effectiveness of teaching methods in undergraduate science. PIs Ebert-May (MSU) and Maher (U Wisconsin).

New Faculty Academy, FGCU (2015)

Semester-long professional development program for teaching in higher education.

Postdoctoral Teaching Scholar, FIRST IV: Kellogg Field Station /Michigan State U. (2009-11)

Faculty Institutes for Reforming Science Teaching is a training program for teaching university science, supported by the NSF. One of 200 international postdoctoral fellows chosen to participate (<http://firstiv.org>).

THE500: Teaching in Higher Education: Woodsworth College, U Toronto (2006)

Completed a professional preparation course for PhD students pursuing academic careers. Learned methods of pedagogy, and practiced and evaluated teaching skills with peers.

Teaching Certificate: Teaching Assistant Training Program: U Toronto (2003-04)

Completed a voluntary training program of six teaching workshops and a practical project. Topics included learning styles, teaching large groups, grading.

Teaching in the classroom, lab and field

2015-19 **Instructor of Record, teaching at FGCU:**

- Field Studies in Marine Science, BSC 4930 (co-taught in May 2018, 2019)
- General Ecology, PCB 3043C (six times, 2015 through 2018)
- Ornithology (Spring 2017 to 2020)
- Regional Environments, EVR 3712: Amazonia (Spring 2018)
- Scientific Process, ISC 3120C (Spring & Fall 2016, Spring-Summer-Fall 2017)
- Senior Research in Biology, BSC 4910 and in Environmental Studies, EVR 4910
- Current Topics in Environmental Studies, EVR 4920: Ecology of Migration (Fall 2015); Global Biodiversity (Spring 2016, Fall 2019); Socially-engaged Art and Ecology (Fall 2017); Water pollution in the Gulf of Mexico (Fall 2018)

Mentorship of student research at FGCU

- Advisor to 4 current MSc students (Disturbance impacts on Black Skimmer and Least Tern colony; Post-hurricane dynamics of wading birds in coastal mangroves; Seabird population dynamics; Scrub Jay behavioural ecology)
- committee member for 8 additional MSc students
- Mentored 23 undergraduate students for their Senior Research projects in Biology and Environmental Studies

- 1996-2018 **Guest Lecturer in undergraduate courses** at five different universities, covering topics including animal behaviour, conservation biology, ecology, environmental studies, ornithology, and wildlife management.
- 2002-07 **Teaching Assistant**, Ecology & Evolution, U Toronto (6 undergraduate courses in behaviour, ecology, conservation, environmental studies, field ornithology)
- 2000-04 **Guest speaker in community schools**
Invited to teach about ecology, conservation biology, and environmental studies in several elementary and high schools in Ontario, Tobago, India, and Malawi.
- 1994-96 **Teaching Assistant**, Department of Biology, Queen's University (5 undergraduate courses in biology, ecology, field ornithology, and statistics)
- 1991-93 **Program Director / Residence Assistant**, Student Housing, University of Guelph: ran *La Maison Française*, a French Living/Learning Centre, trained in a broad array of issues related to university life, and supervised undergraduate students.

Other professional development

Writing residency in Environmental Reportage, Banff Centre for Arts and Creativity, Alberta (2018).

Audited graduate course in advanced Ecological Data Analysis, Université Laval, Québec (2009).

Species Distribution Modelling workshop, Amer. Museum of Natural History, Tucson, AZ (2008)

Scholarship: Presentations

Invited Seminars

- Waterbirds as indicators of ecosystem integrity. Wings Over Water (WOW) festival, Harns Marsh, Lehigh Acres, FL. (speaking on Jan 25, 2020).
- Gaining experience in field ornithology. FGCU Wildlife Club (Feb & Oct 2018, Feb 2019)
- South Florida's integral role in a new era of avian migration research. Distinguished Scientist Seminar Series, Archbold Biological Station, Venus, FL (Apr 2018)
- Southern Florida amid a global renaissance of research about bird movement patterns. Friends of Mound House lecture series, Town of Fort Myers Beach, FL (Jan 2018).
- Exciting prospects for studying bird migration in Florida. Audubon of SWFL, Fort Myers (2017).
- Florida's role in the hemispheric tracking of avian movement patterns. Southwest Florida Birding Seminar, Florida SouthWestern University, Fort Myers, FL (2017).
- Multi-scale assessment of avian habitat relationships for biodiversity conservation. Dept. of Marine and Ecological Sciences, Florida Gulf Coast University, Fort Myers, FL (2015).
- Lefevre, K, E Bayne, S Cumming, S Fang, T Fontaine, K Hannah, D Mazerolle, S Song, & F Schmiegelow. Toward continental conservation of the boreal forest avifauna. Centre d'étude de la forêt, Université Laval, Québec, QC (2009).
- Responses of bird and plant communities in Tobago to human disturbance: implications for seed dispersal and rainforest ecology. Ecology and Evolutionary Biology seminar series, University of Toronto (2007).
- How habitat disturbance affects ecosystem function: bird-fruit interactions in a Neotropical rainforest. Centre for Environment, University of Toronto, ON (2005).
- Ecological impacts of rainforest logging on an Amazonian bird community. Graduate Seminar Series, Faculty of Forestry, University of Toronto, ON (2001).
- Vocal communication in a noisy seabird colony. National Wildlife Research Centre seminar series, Canadian Wildlife Service, Ottawa, ON (1996).
- Parent-offspring communication in a thick-billed murre colony. Ecology, Evolution and Behaviour seminar series, Department of Biology, Queen's University, Kingston, ON (1996).

Conferences (* = poster presentation)

- KL Lefevre, B Forsy & A DiNuovo. Tracking Black Skimmer fledglings at breeding colonies on the Gulf of Mexico. *Association of Field Ornithologists*, Cape May, NJ (Oct 2019).
- C Kern & KL Lefevre. Exploring black skimmer (*Rynchops niger*) population dynamics as an indicator for overall ecosystem integrity. *AFO*, Cape May, NJ (Oct 2019).*
- Ramirez, L, A. DiNuovo & K Lefevre. Seabird mortality during a prolonged red tide event in the Gulf of Mexico. *Society of Wetland Scientists*, Baltimore, MD (2019)*.
- KL Lefevre & A. DiNuovo Seabirds as bioindicators of coastal ecosystems during a Red Tide. *Conserving Biodiversity: Red Tide Impacts in the Gulf*, FGCU (2019).
- Presentations at *Florida Ornithological Society* (2018), Florida Atlantic University, Davie, FL:
- With four of my undergraduate students: A collaborative approach to monitoring regional dispersal dynamics of Black Skimmers in Southwest Florida.*
- Cheadle, G. & K. Lefevre. Wading bird use of damaged versus intact mangrove habitats: a year

after Hurricane Irma.*

MacKinnon, K. & K. Lefevre. How vigilance behavior of Burrowing Owls is influenced by human development.*

Shope, K. & K. Lefevre. Composition of disturbance factors at a Black Skimmer colony in southwestern Florida

Kern, C., H. Moore & K Lefevre. Does human population growth in the vicinity of North America's James and Delaware Bays influence the populations of red knots (*Calidris canutus*) in those regions? *Natural Sciences Undergraduate Symposium*, FGCU (2018).

Lefevre, KL, A. Smith & S. Mackenzie. Using the Motus wildlife tracking network to study avian migration pathways through the southeastern United States. Organized workshop at annual meeting of *Association of Southeastern Biologists*, Myrtle Beach, SC (2018).

Lefevre, KL. Insects as a model for theme-based instruction in undergraduate ecology: aiming to enhance student learning while addressing the "natural history crisis". *Association of Southeastern Biologists*, Myrtle Beach, SC (2018)*.

Bovard B, Everham E, and 20 alphabetical co-authors. Cross-curricular integration of the FGCU Campus as a "living laboratory". *CHNEP Watershed Summit*, Punta Gorda, FL (2017).

Lefevre, KL. Using insects to teach ecological principles while addressing the "natural history crisis". *Environmental Education Alliance of Southwest Florida*, Fort Myers, FL (2016).

With 20 co-authors. Ecological State of the FGCU Campus 1996-2016: selected research by faculty members in Dept. of Biological Sciences and Dept. of Marine and Ecological Sciences. *Colloquium Chataqua*, Emergent Technologies Institute, Fort Myers, FL (2016)*.

Cumming, SG, K Lefevre, E Bayne, S Fang, T Fontaine, F Schmiegelow & S Song. The relative importance of climate and landcover covariates in modelling the spatial distribution of boreal songbirds. *Canadian Society for Ecology and Evolution*, Québec, QC (2010).

Song, SJ, Bayne, EM, Cumming, SG, Fontaine, P, Lefevre, K, Mahon, CL, Schmiegelow, FK. A large-scale modelling effort to support management of incidental take of migratory birds in Canada's boreal forest. *North American Ornithological Congress*, San Diego, California, USA (2010).

Bayne, E, S Cumming, K Lefevre, L Mahon, S Song, & F Schmiegelow. Large-scale evaluation of current and future risks to boreal forest bird populations. *Society of Canadian Ornithologists*, Edmonton, AB (2009).

Song, S, E Bayne, S Cumming, S Fang, T Fontaine, K Hannah, K Lefevre, & F Schmiegelow. Boreal Avian Modelling Project: progress on population estimates. *Partners in Flight Western Working Group*, Penticton, BC (2009).

Song, S, E Bayne, S Cumming, S Fang, T Fontaine, K Hannah, K Lefevre, & F Schmiegelow. Boreal Avian Modelling Project. *Ontario Forest Birds Workshop*, Sault Ste. Marie, ON (2008).

Lefevre, KL. Choosing meaningful measures of community diversity. *Canadian Society for Ecology and Evolution*, Toronto, ON (2007).

Lefevre, KL & FH Rodd. Bird community assembly across a gradient of rainforest disturbance. *American Society of Naturalists/ Society for Study of Evolution*, StonyBrook, NY, USA (2006)*.

Lefevre, KL & FH Rodd. Does human disturbance of tropical rainforest influence fruit removal by birds? *4th International Symposium on Frugivores & Seed Dispersal*, Brisbane, Australia (2005).

Lefevre, KL & FH Rodd. Habitat disturbance and avian frugivory. *Society for Conservation Biology*, New York, NY, USA (2004)*.

Lefevre, KL & FH Rodd. Influence of habitat disturbance on bird-mediated seed dispersal in a Neotropical rainforest. *Ecological Society of America*, Savannah, GA, USA (2003)*.

Lefevre, KL. Individuality of murre calls. *Pacific Seabird Group*, Portland, OR, USA (1997)*.

Lefevre, KL & VR Muehter. Conspecific territoriality of neotropical damselfly *Haeterina mineata*: territory holders and floaters. *Ontario Ecology & Ethology Colloquium*, Toronto, ON (1995).

Lefevre, KL & AJ Gaston. Parent-offspring vocal recognition in the thick-billed murre. Joint Conference of *Colonial Waterbird Society* and *Pacific Seabird Group*, Victoria, BC (1995).

Lefevre, KL. Basking ecology of the painted turtle. *Ontario Biology Day* conference for undergraduate research, Waterloo, ON (1993).

Awards & Grants

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| 2019 | Member of FGCU team awarded competitive 3-year contract with South FL Water Mgmt District to provide scientific support on as-needed basis, PI Dr. D Rumbold

Seabirds as bioindicators of coastal ecosystems after a Red Tide event. PI, with H. Skaza Acosta. FGCU Scholarship-Research Venture Capital Fund (\$11,176)

Blair Foundation Environmental Sciences Summer Research Award, with graduate student Courtney Kern, FGCU: Black Skimmer population dynamics as an indicator for ecosystem integrity (\$5,000)

WiSER Eagles grant: Work-study in Scholarly Experiential Research program, to hire an undergraduate research assistant

Professional Development Enhancement Award, FGCU (\$1000) |
| 2018 | Undergraduate Scholarly Awards: grant submitted with 5 undergraduate students to support our travel and presentations at a regional conference (\$1650).

WiSER Eagles grant: Work-study in Scholarly Experiential Research program, to hire an undergraduate research assistant

Grants to attend Writing Residency in Environmental Reportage, Banff Centre for Arts and Creativity, Banff, Alberta (\$3000)

Storrs Olson Award, for the best book review of the year published in the <i>Wilson Journal of Ornithology</i> (Lefevre, KL, volume 129: 655-657).

Seidler Summer Research Fellowship, FGCU: Assessing Hurricane Irma's impact on Burrowing Owls in North Cape Coral, with BS student Katelyn Mackinnon (\$5,740)

Holmes Development Fund for collaborative research, FGCU: Movement dynamics of Black Skimmers in southern Florida, with BS student Lina Ramirez and collaborator Dr. Adam Smith of USFWS (\$5,000)

Travel Grants for scholarship, FGCU: Whitaker Center for STEM Education (\$1000); Lucas Center for Faculty Development (\$500) —attend Assn Southeastern Biolog. |
| 2017 | Blair Foundation Environmental Sciences Summer Research Award, with graduate student Kristina Shope, FGCU: Social dynamics within a mixed colony of Black Skimmers and Least Terns on Marco Island, Florida (\$5000)

Professional Development Funds Grant, FGCU: to support regional travel for research on Black Skimmer movements (\$425) |

2016 Seidler Summer Research Fellowship, FGCU: Evaluating avian breeding activity in a human-dominated subtropical landscape — which species win? (\$9000)

2009 US Fish and Wildlife Service NMBCA Grant for Boreal Avian Modelling Project, lead writer with 4 collaborators in my postdoc position (\$150,000)

2007 NSERC Postdoc Visiting Government Fellowships (candidacy approved)

2006-07 Doctoral Thesis Completion Grants (2), University of Toronto (total \$5200)

2005 University of Toronto Tuition Fellowship (\$6500)

2004 Ontario Graduate Scholarship (\$15000)
University of Toronto Fellowship (\$2160)

2003 Ontario Graduate Scholarship (\$15000)
E.M. Walker Graduate Award in Biodiversity (\$1450); F.P. Ide Graduate Award in Zoology (\$1250); J.D. Roseborough Prize in Zoology (\$950) (all U Toronto)

2002 Sir Val Duncan Research Travel Grant, Munk Centre for International Studies (\$500)
University of Toronto Fellowship (\$1000)

2001 NSERC PGS-B Award for PhD Studies in Ecology (\$38,200)
E.E. Johnson Postgraduate Forestry Fellowship, U Toronto (\$3000)

1995 Chapman Research Award, American Museum Natural History (\$400)
Northern Studies Training Grant, for northern research (\$4800)
Queen's University Graduate Award (\$4100)
Society of Canadian Ornithologists Student Research Awards: Honourable Mention

1994 Queen's University Graduate Fellowship (\$7000)

1993 College of Biological Sciences Alumni Scholarship, U Guelph (\$500)

1989 Biological Sciences Summer Research Scholarship, U Guelph (\$3000)

1988-90 Canada Scholarship, for University Studies in the Sciences (\$4000)
Entrance Scholarships: U Guelph (accepted); Toronto and Queen's (both declined)
Valedictorian, Philip Pocock High School, Mississauga, Ontario, Canada

Professional and Community Service

Organization team for North American Ornithological Conference in San Juan, Puerto Rico, August 2020: Member of Early Professional Committee (2019 –)

Editorial Advisory Board, Florida Field Naturalist / Florida Ornithological Society (2019 –)

Board Member: Marco Island Nature Preserve and Eagle Sanctuary, Marco Island, Florida (2017–)

Peer reviewer for journals: Acta Oecologica, Alternatives, Behaviour, Behavioural Ecology and Sociobiology, Frontiers in Ecology and Evolution, International Journal of Biodiversity and Conservation, Journal of Applied Ecology, PLoS ONE, Wilson Journal of Ornithology

Life Member: Association of Field Ornithologists (AFO); Florida Ornithological Society.

Past member: American Ornithologists' Union; Canadian Society for Ecology and Evolution; Ecological Society of America; Environmental Studies Association of Canada; Federation of Ontario Naturalists; Wilson Ornithological Society.

Judge, Student Awards: AFO conference (2019); FGCU Undergraduate Research Symposia (2016–)

Founding Member, current Chair, FGCU Biodiversity Group (2016–)

Steering Committees: FGCU Biodiversity Conservation Conference / Center; Wilson Ornithological Society conference Co-Chair (2016-17).

Committee work, Marine and Ecological Sciences, FGCU: Departmental Leadership Team (2017–); Member of Graduate Faculty (2015–); Graduate Admissions Committee (2016-17); Search Committee: for Assistant Professor of Environmental Education (2015-16); EcoBrunch discussion group, co-organizer (2015-17)

Invited Panel Member, Women in STEM Career Day, FGCU (2016, 2018)

Organizer, Ecology discussion group, Dept. of Forest Sciences, U Laval, Québec, QC (2008-09)

Session chair, Canadian Society for Ecology and Evolution, Toronto, ON (2007)

Conference volunteer: International Symposium on Seed Dispersal, Brisbane, Australia (2005); Ecological Society of America, Savannah, GA (2003); Poverty and Sustainability, Toronto (2001)

Search Committee, Dean of Arts and Sciences' Search for Zoology Department Chair (2004)

Session Moderator, Natural City Symposium, University of Toronto (2004)

Committee member for U of T seminar series: Ecolunch (2003), Evolunch (2002), Forestry (2001)

Invited speaker, Biology Career Day, University of Guelph (2003)

Treasurer, Forestry Graduate Students Association, University of Toronto (2001)

NGO steering committee, United Nations Commission on Sustainable Development (1997)

Founding member, Society for Conservation Biology's Kingston, Ontario chapter (1994-96)

Member, College of Biological Science Students' Council, University of Guelph (1989-92)

Community involvement

Volunteer with avian surveys and coastal stewardship programs, Fort Myers, FL: Audubon Florida, Estero Bay Aquatic Preserve, Florida Shorebird Alliance (2016–)

Invited leader, natural history activities in Fort Myers, FL: guided hikes for FGCU Wildlife Club (2017-18); Strolling Science Seminars, Corkscrew Regional Ecosystem Watershed (2017); sessions at Pinewoods Elementary School (2017-18) and FGCU Family Resource Center (2016).

Misery Bay Provincial Park, ON: coordinated Sharp-tailed Grouse observation program (2010-11)

Toronto Bird Observatory (volunteer with Migration Monitoring program, 2003).

Past long-term Member: Federation of Ontario Naturalists, Toronto Outdoor Club.

Volunteer conservation work in India, South Africa, Malawi, and Madagascar (2000)

Sierra Club of Canada, Member (1991-99); Volunteer Outings Chair, Ottawa Group (1997)

Gatineau Valley House women's shelter, volunteer, Board Member, Ottawa (1997-98)

Forest bird monitoring and Marine Patrol volunteer, Bruce Peninsula National Park (1993)

Student Work Abroad Program in Haute-Savoie, France, travel across western Europe (1990-91)

Peer Helper Program: tutored Biology and French, University of Guelph (1990)

Skills Summary

Education	Active learning and scientific teaching; course, program and curriculum development; training in evidence-based practices; workshop design and implementation; mentorship; training of students and field assistants; technology-assisted learning; student assessment; guiding internships and field experiences.
Field, Travel & Wilderness Experience	Extensive experience conducting field studies, ecological surveys (land use, vegetation, birds, fish, mammals, reptiles, invertebrates). Planned research expeditions in remote locales (arctic, temperate and tropical); NAUI scuba; wilderness navigation and ropes access courses; backcountry hiking and paddling.
Communication & Leadership	Public-speaking and designing presentations; grant writing and fundraising; ability to read, write and speak French; collaborative teaching and research, including with government and NGOs; publication of scientific papers in refereed journals; editing and peer review; report writing; policy analysis; project coordination; hiring and supervision of teams; diversity and inclusion training.
Resource Management for Research	Acquisition and management of fiscal and research resources; management of multi-use workplaces (including staff training, organization and scheduling, invoicing, purchasing and maintenance of equipment and supplies, training); strategic planning; leadership of field research teams, including preparation, coordination and execution of research expeditions; handling and care of biological specimens, including collection in the field and cataloguing of plant and animal samples.
Computers & Technologies	Adept at Mac and PC spreadsheet, graphics, statistical, word processing and bibliographic software including JMP, Endnote, Microsoft Excel, Word, PowerPoint. Beginning user of R statistical package. Able to create simple web pages / blogs using standard tools. Familiar with learning systems and other modern technologies used in education (e.g., Blackboard systems, Canvas, clickers, computer projectors).
Data Management & Analysis	Experimental design and scientific process; application and interpretation of uni- and multivariate parametric and nonparametric statistics; establishment and management of databases and sample collections; approaches for species distribution and habitat modelling.