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## Lenore Fahrig FRSC, Chancellor's Professor

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### Impact Summary

- A study in 2019 ranked my impact in the top 0.01% of all 7 million scientists worldwide, across all disciplines (Ioannidis et al. 2019: PLoS Biol 17, e3000384).
- In 1985, with my MSc supervisor, I introduced the concept of habitat connectivity, establishing a new sub-field of conservation biology - connectivity conservation (Fahrig and Merriam 1985). Habitat connectivity is now a central element of conservation planning used by hundreds of conservation organizations worldwide.
- I published the world's most-cited paper on habitat fragmentation (Fahrig 2003). My research on habitat fragmentation demonstrates the cumulative conservation value of small habitat patches, and empowers small-scale conservation efforts by individuals and communities.
- I published the world's first paper demonstrating that road kill can reduce wildlife populations (Fahrig et al. 1995). This is also the world's most-cited road ecology paper presenting original research (not a review paper).
- I am the most highly cited road ecologist in the world (Google Scholar). Hundreds of organizations worldwide have used my road ecology research in road mitigation planning.
- My graduate students and Postdoctoral Fellows (PDF's) have gone on to highly successful careers as university and government researchers, and in environmental NGO's and consulting companies

### Impact Measures (Google Scholar)

Total Citations	<b>48,198</b>
h-index	<b>91</b>
<b>Publications</b>	
Books	<b>3</b>
Peer-reviewed Journal Articles	<b>199</b>
Book Chapters and Other Published Articles	<b>52</b>
<b>Invited Presentations</b>	
Conference Plenary and Other Prestigious Lectures	<b>20</b>
Other Invited Lectures	<b>82</b>
<b>Funding</b>	
Research Grants	<b>\$6.5 million</b>
<b>HQP Supervisions</b>	
PDF	<b>20</b>
PhD	<b>20</b>
MSc	<b>45</b>
International Exchange PhD and PDF	<b>17</b>

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## Honours and Distinctions

- 2019** Chancellor's Professor: the highest honour given by Carleton University for research and scholarship
- 2018** Mirosław Romanowski Medal: for contributions toward the resolution of scientific aspects of environmental problems, Royal Society of Canada. One award given annually.
- 2016** Elected Fellow of the Royal Society of Canada
- 2012** Faculty Graduate Mentoring Award, Carleton University, awarded to "faculty who render exceptional service to graduate students as supervisors and research mentors"
- 2011** Distinguished Landscape Ecologist Award, U.S. Association for Landscape Ecology (US-IALE): top award of the US-IALE, "to recognize unique individuals whose long-term scientific contribution has helped to define the field of landscape ecology". One award given annually.
- 2011** Carleton University Research Achievement Award, "to recognize outstanding research achievements."
- 2010** Outstanding Paper in Landscape Ecology. One award given annually by the US Association for Landscape Ecology (US-IALE) to recognize the most outstanding paper in the field of landscape ecology.
- 2005** Outstanding Paper in Landscape Ecology. One award given annually by the US Association for Landscape Ecology (US-IALE) to recognize the most outstanding paper in the field of landscape ecology.
- 2003** Carleton University Research Achievement Award, "to recognize outstanding research achievements."

## Education

- 1988** Ph.D. in Population ecology/ecological modelling at the University of Toronto, Canada. Dissertation: Effects of dispersal behaviour on relationships between spatial arrangement of host patches and local population size.
- 1983** M.Sc. in Population ecology/ecological modelling at Carleton University, Ottawa, Canada. Thesis: Habitat patch connectivity and population stability: a model and case study.
- 1981** B.Sc. (Honours) in Biology at Queen's University, Kingston, Canada. Thesis: Competition and coexistence in a lichen community.

## Positions Held Since Doctoral Degree

<b>2019-present</b>	Chancellor's Professor of Biology, Dept. Biology, Carleton University, Canada.
<b>2001-2019</b>	Professor of Biology, Dept. Biology, Carleton University, Canada.
<b>1994-2001</b>	Associate Professor of Biology, Dept. Biology, Carleton University, Canada.
<b>1995</b>	Tenure awarded.
<b>1991-1994</b>	Assistant Professor of Biology, Dept. Biology, Carleton University, Canada.
<b>1989-91</b>	Research Scientist, Fisheries and Oceans Canada, St. John's, NL, Canada.
<b>1987-1989</b>	Post-doctoral Fellow, Dept. Environmental Sciences, Univ. Virginia, USA.

## Grants

### *Externally Funded*

<b>Year</b>	<b>Funder and Program</b>	<b>Amount</b>	<b>Role</b>
<b>2020</b>	Mitacs Accelerate Industrial Postdoc	\$110,000	co-applic
<b>2020</b>	German Centre for Integrative Biodiversity Research	\$24,000	PI
<b>2018</b>	Environment and Climate Change Canada (ECCC)	\$24,150	PI
<b>2017</b>	ECCC	\$10,000	PI
<b>2016</b>	Natural Sciences and Engineering Research Council of Canada (NSERC) Connect Grant	\$15,180	PI
<b>2014-2020</b>	NSERC Discovery	\$395,000	PI
<b>2015-2018</b>	NSERC Discovery Accelerator Supplement (DAS)	\$120,000	PI
<b>2013-2016</b>	ECC	\$50,000	PI
<b>2013</b>	Natural Resources Canada (NRC)	\$15,000	PI
<b>2009-2012</b>	NSERC Strategic Project	\$521,717	PI
<b>2009-2014</b>	NSERC Discovery	\$310,000	PI
<b>2010-2020</b>	ECCC Grants and Contributions	\$1,500,000	co-applic
<b>2010</b>	Poste Rouge, CNRS, France	\$16,449	PI
<b>2008-2010</b>	NSERC DAS	\$120,000	PI
<b>2002-2008</b>	NSERC Discovery	\$230,000	PI

<b>2002</b>	Canada Foundation for Innovation and Ontario Research Fund	\$1,876,848	PI
<b>2001</b>	Hamlin Family Fund	\$300,000	PI
<b>1998-2001</b>	NRC	\$12,000	PI
<b>1998-2000</b>	NSERC Discovery	\$156,640	PI
<b>2000</b>	Canadian Forest Service (CFS)	\$134,400	PI
<b>1999</b>	NRC	\$16,500	PI
<b>1999</b>	NRC	\$18,000	PI
<b>1999</b>	Premier's Research Excellence Award	\$143,800	PI
<b>1998</b>	NRC	\$7,500	PI
<b>1998</b>	Ontario Woodlot Association	\$13,600	PI
<b>1998</b>	CFS	\$5,000	PI
<b>1994-1997</b>	NSERC Discovery	\$136,000	PI
<b>1994</b>	Helen McCrea Peacock Foundation	\$2,500	PI
<b>1994</b>	Richard Ivey Foundation	\$98,000	PI
<b>1994</b>	EJLB Foundation	\$5,000	PI
<b>1994</b>	Environmental Youth Corps (Gov Ontario)	\$6,062	
<b>1994</b>	NSERC Equipment	\$13,842	PI
<b>1993-1994</b>	Department of Fisheries and Oceans	\$26,000	PI
<b>1991-1994</b>	NSERC Discovery	\$60,000	PI
<b>1992</b>	NSERC Publications	\$5,088	PI
<b><i>Internally Funded</i></b>			
<b>2013-2015</b>	Carleton University	\$54,000	co-applic
<b>1998</b>	Carleton University	\$4,200	PI
<b>1993-1996</b>	Carleton University	\$34,500	PI
<b>1996</b>	Carleton University	\$5,500	PI
<b>1992</b>	Carleton University	\$3,050	PI
<b>1991</b>	Carleton University	\$25,000	PI

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## PUBLICATIONS

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### Publications in Refereed Journals

*Students are first author on any publication that began as a chapter in a thesis or dissertation. As supervisor I am either second or last author. Except for first and last author, order of authorship indicates relative contribution (higher near beginning of the list), except when listed alphabetically, in which case contribution is equal.*

*Names underlined are my students and PDF's at the time of the project.*

1. Arroyo-Rodriguez V, **Fahrig L**, Watling JI, Nowakowski J, Tabarelli M, Tischendorf L, Melo FPL, Santos BA, Benchimol M, Morante-Filho JC, Slik JWF, Vieira ICG, Tscharrntke T. In press (accepted 21 December 2020). Preserving 40% forest cover is a valuable and well-supported conservation guideline: reply to Banks-Leite et al. *Ecology Letters*.
2. **Fahrig L**. In press (accepted 10 December 2020). What the habitat amount hypothesis does and does not predict: a reply to Saura. *Journal of Biogeography*.
3. Buxton R, Nyboer E, Pigeon K, Raby G, Rytwinski T, Gallager AJ, Schuster R, Lin H-Y; **Fahrig L**, Bennett JR, Cooke S, Roche D. In press (accepted 4 November 2020). Avoiding wasted research resources in conservation science. *Conservation Science and Practice*.
4. Teixeira FZ, Rytwinski T, **Fahrig L**. 2020. Inference in road ecology research: What we know versus what we think we know. *Biology Letters* 16: 20200140.
5. Arroyo-Rodriguez V, **Fahrig L**, Tabarelli M, Watling JI, Tischendorf L, Benchimol M, Cazetta E, Faria D, Leal IR, Melo FPL, Morante-Filho JC, Santos BA, Arasa-Gisbert R, Arce-Peña N, Cervantes-López MJ, Cudney-Valenzuela S, Galán-Acedo C, San-José M, Vieira ICG, Slik JWF, Nowakowski J, Tscharrntke T. 2020. Designing optimal human-modified landscapes for forest biodiversity conservation. *Ecology Letters* 23: 1404–1420. [Cover Article]
6. Bergman J, Binley A, Murphy R, Proctor C, Tran Nguyen A, Urness E, Vala M, Vincent J, **Fahrig L**, Bennett J. 2020. How to rescue Ontario's Endangered Species Act. *FACETS* 5: 423–431.
7. Watling JI, Arroyo-Rodríguez V, Pfeifer M, Baeten L, Banks-Leite C, Cisneros LM, Fang R, Hamel-Leigues AC, Lachat T, Leal IR, Lens L, Possingham HP, Raheem DC, Ribeiro DB, Slade EM, Urbina-Cardona JN, Wood EM, **Fahrig L**. 2020. Support for the habitat amount hypothesis from a global synthesis of species density studies. *Ecology Letters* 23: 674–681.

8. Alignier A, Solé-Senan X, Robleño I, Baraibar B, **Fahrig L**, Giralt D, Gross N, Martin J-L, Recasens J, Sirami C, Siriwardena G, Baillod A, Bertrand C, Carrie R, Hass AL, Henckel L, Miguet P, Badenhausser I, Baudry J, Bota G, Bretagnolle V, Brotons L, Burel F, Calatayud F, Clough Y, Georges R, Gibon A, Girard J, Lindsay K, Minano J, Mitchell S, Patry N, Poulin B, Tschardtke T, Vialatte A, Violle C, Yavercovski N, Batáry P. 2020. Compositional and configurational crop heterogeneity increases within-field plant diversity. *Journal of Applied Ecology* 57: 654-663. [Editor's Choice paper]
9. **Fahrig L**. 2020. Why do several small patches hold more species than few large patches? *Global Ecology and Biogeography* 29: 615-628.
10. Collins SJ, **Fahrig L**. 2020. Are macroinvertebrate traits reliable indicators of specific agrichemicals? *Ecological Indicators* 111: 105965.
11. Martin AE, Collins SJ, Crowe S, Girard J, Naujokaitis-Lewis I, Smith AC, Lindsay K, Mitchell S, **Fahrig L**. 2020. Effects of farmland heterogeneity on biodiversity are similar to—or even larger than—the effects of farming practices. *Agriculture, Ecosystems and Environment* 288: 106698.
12. Endenberg S, Mitchell G, Kirby P, **Fahrig L**, Pasher J, Wilson S. 2019. The homogenizing influence of intensive agriculture on forest bird communities at landscape scales. *Landscape Ecology* 34: 2385-2399.
13. Lloren JE, **Fahrig L**, Bennett J, Contreras T, McCune J. 2020. The influence of landscape context on short- and long-term forest change following a severe ice storm. *Journal of Ecology* 108: 224–238.
14. Sirami C, Gross N, Baillod AB, Bertrand C, Carrié R, Hass A, Henckel L, Miguet P, Vuillot C, Alignier A, Girard J, Batáry P, Clough Y, Violle C, Giralt D, Bota G, Badenhausser I, Lefebvre G, Gauffre B, Vialatte A, Calatayud F, Gil-Tena A, Tischendorf L, Mitchell S, Lindsay K, Georges R, Hilaire S, Recasens J, Solé-Senan XO, Robleño I, Bosch J, Barrientos JA, Ricarte A, Marcos-Garcia MA, Minano J, Mathevet R, Gibon A, Baudry J, Balent G, Poulin B, Burel F, Tschardtke T, Bretagnolle V, Siriwardena G, Ouin A, Brotons L, Martin J-L, **Fahrig L**. 2019. Increasing crop heterogeneity enhances multitrophic diversity across agricultural regions. *Proceedings of the National Academy of Sciences* 116: 16442-16447.
15. Put, JE, **Fahrig L**, Mitchell GW. 2019. Bats respond negatively to increases in the amount and homogenization of agricultural land cover. *Landscape Ecology* 34: 1889-1903.
16. Martin, AE, Pervin E, Graham SL, Henry M, **Fahrig L**. 2019. Abundance of aerially-dispersing spiders declines with increasing road traffic. *Écoscience* 26: 383–388.
17. Farrell CE, **Fahrig L**, Mitchell GW, Wilson S. 2019. Local habitat association does not inform landscape management of threatened birds. *Landscape Ecology* 34: 1313–1327.

18. Galán-Acedo C, Arroyo-Rodríguez V, Cudney-Valenzuela S, **Fahrig L**. 2019. A global assessment of primate responses to landscape structure. *Biological Reviews* 94: 1605–1618.
19. Moraga A, Martin AE, **Fahrig L**. 2019. A species' landscape extent varies with the response variable measured. *Landscape Ecology* 34: 703–715.
20. Moretto L, **Fahrig L**, Smith AC, Francis CM. 2019. A small-scale response of urban bat activity to tree cover. *Urban Ecosystems* 22: 795–805.
21. **Fahrig L**, Arroyo-Rodríguez V, Bennett JR, Boucher-Lalonde V, Cazetta E, Currie DJ, Eigenbrod F, Ford AT, Harrison SP, Jaeger JAG, Koper N, Martin AE, Martin J-L, Metzger JP, Morrison P, Rhodes JR, Saunders DA, Simberloff D, Smith AC, Tischendorf L, Vellend M, Watling JI. 2019. Is habitat fragmentation bad for biodiversity? *Biological Conservation* 230: 179–186.
22. Sawatzky M, **Fahrig L**. 2019. Wetland buffers are no substitute for landscape-scale conservation. *Ecosphere* 10: e02661.
23. Collins SA, Bellingham L, Mitchell G, **Fahrig L**. 2019. Life in the slow drain: Landscape structure affects farm ditch water quality. *Science of the Total Environment* 656: 1157–1167.
24. **Fahrig L**. 2019. Habitat fragmentation: a long and tangled tale. *Global Ecology and Biogeography* 28: 33–41.
25. Sawatzky ME, Martin AE, **Fahrig L**. 2018. Landscape context is more important than wetland buffers for farmland amphibians. *Agriculture, Ecosystems and Environment* 269: 97–106.
26. Put J, Mitchell G, **Fahrig L**. 2018. Higher bat and prey abundance at organic than conventional soybean fields. *Biological Conservation* 226: 177–185.
27. Martin AE, **Fahrig L**. 2018. Habitat specialist birds disperse farther and are more migratory than habitat generalist birds. *Ecology* 99: 2058–2066.
28. Martin, AE, Graham S, Henry M, Pervin E, **Fahrig L**. 2018. Flying insect abundance declines with increasing road traffic. *Insect Conservation and Diversity* 11: 608–613.
29. Ascensão F, **Fahrig L**, Clevenger AP, Corlett R, Jaeger J, Laurance WF, Pereira HM. 2018. Environmental challenges for the Belt and Road Initiative. *Nature Sustainability* 1: 206–209.
30. Hill M, Hassall C, Oertli B, **Fahrig L**, Robson B, Biggs J, Samways M, Usio N, Takamura N, Krishnaswamy J, Wood P. 2018. New policy directions for global pond conservation. *Conservation Letters* 11: e12447.

31. Bennett J, Maxwell S, Martin A, Chadès I, **Fahrig L**, Gilbert B. 2018. When to monitor and when to act: Value of information theory for multiple management units and limited budgets. *Journal of Applied Ecology* 55: 2102-2113.
32. Hass AL, Kormann U, Tschardt T, Clough Y, Baillod AB, Sirami C, **Fahrig L**, Martin J-L, Baudry J, Bertrand C, Bosch J, Brotons L, Burel F, Georges R, Giralt D, Marcos-García MA, Ricarte A, Siriwardena G, Batáry P. 2018. Landscape configurational heterogeneity by small-scale agriculture, not crop diversity, maintains pollinators and plant reproduction in Western Europe. *Proceedings of the Royal Society of London B* 285: 20172242.
33. Monck-Whipp L, Martin AE, Francies CM, **Fahrig L**. 2018. Farmland heterogeneity benefits bats in agricultural landscapes. *Agriculture, Ecosystems and Environment* 253: 131-139.
34. Wilson S, Mitchell GW, Pasher J, McGovern M, Hudson M-AR, **Fahrig L**. 2017. Influence of crop type, heterogeneity and woody structure on avian biodiversity in agricultural landscapes. *Ecological Indicators* 83: 218-226.
35. Martin A, Pearce Higgins J, **Fahrig L**. 2017. The spatial scale of time-lagged population synchrony increases with species dispersal distance. *Global Ecology and Biogeography* 26: 1201-1210.
36. Miguet P, **Fahrig L**, Lavigne C. 2017. How to quantify a distance-dependent landscape effect on a biological response. *Methods in Ecology and Evolution* 8: 1717–1724.
37. Seibold S, Bässler C, Brandl R, **Fahrig L**, Förster B, Heurich M, Hothorn T, Scheipl F, Thorn S, Müller J. 2017. An experimental test of the habitat-amount hypothesis for saproxylic beetles in a forested region. *Ecology* 98: 1613-1622.
38. Duflot R, Ernoult A, Aviron S, **Fahrig L**, Burel F. 2017. Relative effects of landscape composition and configuration on multi-habitat gamma diversity in agricultural landscapes. *Agriculture, Ecosystems and Environment* 241: 62-69.
39. Melo GL, Sponshiado J, Cáceras N, **Fahrig L**. 2017. Testing the habitat amount hypothesis for South American small mammals. *Biological Conservation* 209: 304-314.
40. Collins S, **Fahrig L**. 2017. Responses of anurans to composition and configuration of agricultural landscapes. *Agriculture, Ecosystems & Environment* 239: 399-409.
41. Teixeira FZ, Kindel A, Hartz S, Mitchell S, **Fahrig L**. 2017. When road-kill hotspots do not indicate the best sites for road-kill mitigation. *Journal of Applied Ecology* 54: 1544–1551.
42. Martin AE, Desrochers A, **Fahrig L**. 2017. Homogenization of dispersal ability across bird species in response to landscape change. *Oikos* 126: 996-1003.



43. Arroyo-Rodríguez V, Saldaña-Vázquez RA, **Fahrig L**, Santos BA. 2017. Does forest fragmentation cause an increase in forest temperature? *Ecological Research* 32:81-88.
44. **Fahrig L**. 2017. Ecological responses to habitat fragmentation *per se*. *Annual Reviews of Ecology, Evolution and Systematics* 48:1-23.
45. Rytwinski T, Soanes K, Jaeger JAG, **Fahrig L**, Findlay CS, Houlihan J, van der Ree R, van der Grift EA. 2016. How effective is road mitigation at reducing road-kill? A meta-analysis. *PLOS ONE* 11(11): e0166941.
46. Jackson ND, **Fahrig L**. 2016. Habitat amount, not habitat configuration, best predicts population genetic structure in fragmented landscapes. *Landscape Ecology* 31: 951-968.
47. Martin AE, **Fahrig L**. 2016. Reconciling contradictory relationships between mobility and extinction risk in human-altered landscapes. *Functional Ecology* 30: 1558-1567.
48. Miguet P, Jackson HB, Jackson ND, Martin AE, **Fahrig L**. 2016. What determines the spatial extent of landscape effects on species? *Landscape Ecology* 31: 1177-1194.
49. Koumaris A, **Fahrig L**. 2016. Different anuran species show different relationships to agricultural intensity. *Wetlands* 36: 731–744.
50. Suarez-Esteban A, **Fahrig L**, Delibes M, Fedriani JM. 2016. Can anthropogenic linear gaps increase plant abundance and diversity? *Landscape Ecology* 31: 721-729.
51. Martin AE, **Fahrig L**. 2015. Matrix quality and disturbance frequency drive evolution of species behaviour at habitat boundaries. *Ecology and Evolution* 5: 5792-5800.
52. Downing RJ, Rytwinski T, **Fahrig L**. 2015. Positive effects of roads on small mammals: A test of the predation release hypothesis. *Ecological Research* 30: 651-662.
53. Patenaude T, Smith A, **Fahrig L**. 2015. Disentangling the effects of wetland loss and urban development on the quality of remaining wetlands. *Urban Ecosystems* 18: 663–684.
54. Rytwinski T, van der Ree R., Cunnington GM, **Fahrig L**, Findlay CS, Houlihan J, Jaeger JAG, Soanes K, van der Grift EA 2015. Experimental study designs to improve the evaluation of road mitigation measures for wildlife. *Journal of Environmental Management* 154: 48-64.
55. Duflot R, Aviron S, Ernoult A, **Fahrig L**, Burel F. 2015. Reconsidering the role of 'semi-natural habitat' in farmland biodiversity: a case study. *Ecological Research* 30:75-83.
56. Jack J, Rytwinski T, **Fahrig L**, Francis CM. 2015. Influence of traffic mortality on forest bird abundance. *Biodiversity and Conservation* 24:1507–1529.

57. **Fahrig L.** 2015. Just a hypothesis: a reply to Hanski. *Journal of Biogeography* 42: 993-994.
58. Jackson HB, **Fahrig L.** 2015. Are ecologists conducting research at the right scale? *Global Ecology and Biogeography* 24: 52-63.
59. Quesnelle P, Lindsay K, **Fahrig L.** 2015. Relative effects of landscape-scale wetland amount and landscape matrix quality on wetland vertebrates: a meta-analysis. *Ecological Applications* 25: 812-825.
60. Carrara E, Arroyo-Rodríguez V, Vega-Rivera JH, Schondube JE, Martins de Freitas S, **Fahrig L.** 2015. Impact of landscape composition and configuration on forest specialist and generalist bird species in the fragmented Lacandona rainforest, Mexico. *Biological Conservation* 184: 117-126.
61. **Fahrig L**, Girard J, Duro D, Pasher J, Smith AC, King D, Lindsay K, Mitchell S, Tischendorf L. 2015. Farmlands with smaller crop fields have higher within-field biodiversity. *Agriculture, Ecosystems and Environment* 200: 219-234.
62. Gagné SA, Eigenbrod F, Bert D, Cunnington GM, Olson LT, Smith AC, **Fahrig L.** 2015. A simple landscape design framework for biodiversity conservation. *Landscape and Urban Planning* 136: 13-27.
63. Jackson ND, **Fahrig L.** 2014. Landscape context affects genetic diversity at a much larger spatial extent than population abundance. *Ecology* 95: 871-881.
64. Cunnington GM, Garrah E, Eberhardt E, **Fahrig L.** 2014. Culverts alone do not reduce road mortality in anurans. *Écoscience* 21: 69-78.
65. Vargas-Salinas F, Cunnington GM, Amézquita A, **Fahrig L.** 2014. Does traffic noise alter calling time in frogs and toads? A case study of anurans in Eastern Ontario, Canada. *Urban Ecosystems* 17: 945-953.
66. Arroyo-Rodríguez V, **Fahrig L.** 2014. Why is a landscape perspective important in studies of primates? *American Journal of Primatology* 76: 901-909.
67. Smith AC, Francis CM, **Fahrig L.** 2014. Similar effects of residential and non-residential vegetation on bird diversity in suburban neighbourhoods. *Urban Ecosystems* 17:27-44.
68. Dorland A, Rytwinski T, **Fahrig L.** 2014. Do roads reduce Painted Turtle (*Chrysemys picta*) populations? *PLOS ONE* 9(5): e98414. doi:10.1371/journal.
69. Betts MG, **Fahrig L**, Hadley AS, Halstead KE, Robinson WD, Wiens JA, Lindenmayer DB. 2014. A species-centered approach for uncovering generalities in organism responses to habitat loss and fragmentation. *Ecography* 37: 517-527.

70. Girard J, Mineau P, **Fahrig L**. 2014. Higher nestling food biomass in organic than conventional soybean fields in eastern Ontario, Canada. *Agriculture, Ecosystems and Environment* 189: 199-205.
71. Quesnelle P, Lindsay K, **Fahrig L**. 2014. Low reproductive rate predicts species sensitivity to habitat loss: a meta-analysis of wetland vertebrates. *PLOS ONE* 9(3): e90926.
72. Duro DC, Girard J, King DJ, **Fahrig L**, Mitchell S, Lindsay K, Tischendorf L. 2014. Predicting species diversity in agricultural environments using Landsat TM-based imagery. *Remote Sensing of Environment* 144: 214-225.
73. van der Grift EA, Van Der Ree R, **Fahrig L**, Findlay CS, Houlihan JE, Jaeger JAG, Klar N, Madriñan LF, Olson L. 2013. Evaluating the effectiveness of road mitigation measures. *Biodiversity and Conservation* 22: 425-448.
74. Rytwinski T, **Fahrig L**. 2013. Why are some animal populations unaffected or positively affected by roads? *Oecologia* 173: 1143-1156.
75. Melo FPL, Arroyo- Rodríguez V, **Fahrig L**, Martínez-Ramos M, Tabarelli M. 2013. On the hope for biodiversity-friendly tropical landscapes. *Trends in Ecology and Evolution* 28: 462-468.
76. Daoust SP, **Fahrig L**, Martin AE, Thomas F. 2013. From forest and agro-ecosystems to the microecosystems of the human body: what can landscape ecology tell us about tumor growth, metastasis and treatment options? *Evolutionary Applications* 6: 82-91.
77. Eberhardt E, Mitchell S, **Fahrig L**. 2013. Road kill hotspots do not effectively indicate mitigation locations when past road kill has depressed populations. *Journal of Wildlife Management* 77: 1353-1359. [highlighted in *The Wildlife Professional* Winter 2013 issue.]
78. **Fahrig L**. 2013. Rethinking patch size and isolation effects: the habitat amount hypothesis. *Journal of Biogeography* 40: 1649-1663.
79. Cunnington GM, **Fahrig L**. 2013. Mate attraction by male anurans in the presence of traffic noise. *Animal Conservation* 16: 275-285.
80. Pasher J, Mitchell SW, King DJ, **Fahrig L**, Smith AC, Lindsay KE. 2013. Optimizing landscape selection for estimating relative effects of landscape variables on ecological responses. *Landscape Ecology* 28: 371-383.
81. Quesnelle P, **Fahrig L**, Lindsay K. 2013. Effects of habitat loss, habitat configuration and matrix composition on declining wetland species. *Biological Conservation* 160: 200-208.
82. Martin AE, **Fahrig L**. 2012. Measuring and selecting scales of effect for landscape predictors in species-habitat models. *Ecological Applications* 22: 2277-2292.

83. Coffey HMP, **Fahrig L.** 2012. Relative effects of vehicle pollution, moisture and colonization sources on urban lichens. *Journal of Applied Ecology* 49: 1467-1474.
84. Girard J, Baril A, Mineau P, **Fahrig L.** 2012. Foraging habitat and diet of Song Sparrows (*Melospiza melodia*) nesting in farmland: a stable isotope approach. *Canadian Journal of Zoology* 90: 1339-1350.
85. Munro KG, Bowman J, **Fahrig L.** 2012. Effect of paved road density on abundance of white-tailed deer. *Wildlife Research* 39: 478-487.
86. Jackson HB, **Fahrig L.** 2012. What size is a biologically relevant landscape? *Landscape Ecology* 27: 929-941.
87. Tscharrntke T, Tylianakis J, Rand T, Didham R, **Fahrig L**, Batary P, Bengtsson J, Clough Y, Crist T, Dormann C, Ewers R, Holt R, Holzschuh A, Klein A, Kremen C, Landis D, Laurance W, Lindenmayer D, Scherber C, Sodhi N, Steffan-Dewenter I, Thies C, vander Putten W, Westphal C. 2012. Landscape moderation of biodiversity patterns and processes - eight hypotheses. *Biological Reviews* 87: 661-685.
88. Lesbarrères D, **Fahrig L.** 2012. Measures to reduce population fragmentation by roads: what has worked and how do we know? *Trends in Ecology and Evolution* 27: 374-380.
89. Flick T, Feagan S, **Fahrig L.** 2012. Effects of landscape structure on butterfly species richness and abundance in agricultural landscapes in eastern Ontario, Canada. *Agriculture, Ecosystems and Environment* 156: 123-133.
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32. **Fahrig L**, Freemark K. 1995. Landscape-scale effects of toxic events for ecological risk assessment. Pp. 193-208 in: Cairns J, Niederlehner BR (eds.). *Ecological toxicity testing: scale, complexity, and relevance*. Lewis Publishers, Boca Raton, Florida.
33. Harrison S, **Fahrig L.** 1995. Landscape Pattern and Population Conservation. Pp. 293-308 in: Hansson L, Fahrig L, Merriam HG (eds.). *Mosaic Landscapes and Ecological Processes*. IALE Studies in Landscape Ecology. Chapman and Hall, New York.
34. **Fahrig L**, Merriam G. 1995. Conservation of fragmented populations. Pp. 16-25 in: Ehrenfeld D (ed.). *Readings in conservation biology: The landscape perspective*. Society for Conservation Biology and Blackwell Science Inc., Don Mills.
35. **Fahrig L.** 1991. Simulation methods for developing general landscape-level hypotheses of single species dynamics. Pp. 417-442 in: Turner MG, Gardner RH (eds.). *Quantitative methods in landscape ecology*. Springer Verlag, New York.
36. **Fahrig L**, Lefkovitch LP, Merriam HG. 1983. Population stability in a patchy environment. Pp. 61-67 in: Lauenroth WK, Skogerboe GV, Flug M (eds.). *Analysis of ecological systems: state-of-the-art in ecological modelling*. Elsevier, New York.

## Papers in Review

1. **Fahrig L**, Watling JI, Arnillas CA, Arroyo-Rodríguez V, Jörger-Hickfang T, Müller J, Pereira H, Riva F, Rösch V, Seibold S, Tschardt T, May F. Resolving the SLOSS dilemma for biodiversity conservation: a research agenda. Submitted 11 December 2020 to *Ecology Letters*.
2. Martin AE, **Fahrig L.** Are weak dispersers actually more sensitive to land use intensification than strong dispersers? Submitted 9 December 2020 to *Ecology Letters*.

3. Duflot R, **Fahrig L**, Mönkkönen M. Encouraging management diversity to maintain biodiversity in production forest landscapes. Submitted 31 October 2020 to *Ecography*.
4. Schrimpf MB, Brisay PD, Johnston A, Smith AC, Sánchez-Jasso J, Robinson BG, Warrington MH, Mahoney NA, Horn AG, Strimas-Mackey M, **Fahrig L**, Koper N. Reduced human mobility during COVID-19 alters avian land use across North America. Submitted 30 October 2020 to *Science Advances*.
5. Martin C, Vellend M, **Fahrig L**, Proulx R. Constraints on anthropogenic landscape change and implications for biodiversity conservation. Submitted 10 September 2020 to *Global Ecology and Biogeography*.
6. Martin AE, Mitchell GW, Girard J, **Fahrig L**. More milkweed in farmlands comprised of small, annual crop fields and hedgerows. Submitted 29 August 2020 to *Agriculture, Ecosystems and Environment*.
7. Momeni I, Bennett J, Rytwinski T, **Fahrig L**. Mapping the pre-migration distribution of eastern Monarch butterflies using community science data. Submitted 29 July 2020 to *Ecology and Evolution*.
8. Kadykalo A, Buxton R, Morrison P, Anderson C, Bickerton H, Francis CM, Smith A, Fahrig L. Bridging research and practice in conservation. Submitted 17 March 2020 to *Conservation Biology*.
9. Hepburn L, Smith AC, Zelenski J, **Fahrig L**. Bird diversity subconsciously increases people's satisfaction with where they live. Submitted 12 December 2020 to *LAND*.
10. Baillo A, Hass AL, Batary P, Clough Y, Sirami C, Martin J-L, **Fahrig L**, Marcos-Garcia MA, Barriento JA, Bertrand C, Bota G, Brotons L, Burel F, Carrie R, Georges R, Gauffre B, Giralt D, Hilaire S, Ouin A, Poulin B, Ricarte A, Saintilan A, Siriwardena G, Vialatte A, Tschardt T. Configurational and compositional farmland heterogeneity affect trait composition of flower-visiting and predaceous arthropods. Submitted 20 May 2019 to *Nature Communications*.
11. Sawatzky M, Hotte T, James J, Mineau P, **Fahrig L**, Naujokaitis-Lewis I. Effects of local and landscape factors on bee abundance and pollination services in agroecosystems. Submitted 8 March 2019 to *Journal of Applied Ecology*.
12. Martin AE, Henry M, Pervin E, Graham SL, **Fahrig L**. Submitted 15 February 2019. Larger insects show steeper population declines in response to road traffic than do smaller insects. Submitted to *Ecological Entomology*.
13. Perkins GC, Martin AE, Smith AC, **Fahrig L**. No detectable effects of urban domestic cats (*Felis catus*) on the overall richness or abundance of urban birds. Submitted 16 January 2019 to *Scientific Reports*.

## Book Reviews

1. Contreras T, Bender D, **Fahrig L**, Goodwin B, Henein K, Langlois J, Pope S, Wegner J, Westerberg K. 1998. Review of: McCullough DR (ed). 1996. *Metapopulations and Wildlife Conservation*. *Journal of Wildlife Management* 62: 426-427.



2. Goodwin BJ, Bender DJ, Contreras TA, **Fahrig L**, Pope SE, Wegner J. 1996. Review of: Lemons J. 1995. *Readings from Conservation Biology*. *Écoscience* 3: 516-517.
3. **Fahrig L**, Wegner J. 1995. Review of: Meffe GK and Carroll CR. 1994. *Principles of Conservation Biology*. *Écoscience* 2: 305-309.

## Other Publications

1. **Fahrig L**. 2020. Smaller farmer's fields can reduce biodiversity loss and increase wild plants, birds, beetles and bats. *The Conversation*, published 10 July 2020, <https://theconversation.com/smaller-farmers-fields-can-reduce-biodiversity-loss-and-increase-wild-plants-birds-beetles-and-bats-139015>
2. Rachel Buxton. "For the love of loons: it's time to stand up for biodiversity", *The Hill Times*, <https://www.hilltimes.com/2019/07/29/for-the-love-of-loons-its-time-to-stand-up-for-biodiversity/209207> (I contributed to the article)
3. Holling CS, **Fahrig L**, Henebry GM, Henein CM, Merriam G, Miller LN, Paquette C, Pope SE, Porter J, Scheiner SM, Taylor P, Yu PHK. 1996. Letters: Electronic publishing. *Science* 272: 16.
4. Rose GA, **Fahrig L**, Narayanan S, DeYoung B, Walters C. 1993. The migration pathways of Atlantic cod (*Gadus morhua*) on the northeast Newfoundland shelf: a model based on oceanography and fish behaviour. *Northwest Atlantic Fisheries Organization Scientific Council Studies* 18: 79.
5. **Fahrig L**, Hayden B, Dolan R. 1993. Distribution of barrier island overwash disturbance. A data publication of the Virginia Coast LTER, University of Virginia, Charlottesville, VA.
6. **Fahrig L**, Lilly G, Miller D. 1992. Predator stomachs as sampling tools for prey distribution: Cod and capelin. *Canadian Atlantic Fisheries Advisory Committee Research Document* 92/88.
7. **Fahrig L**, Atkinson B. 1991. Uncertainty in a mixed stock fishery: a redfish simulation study. *Northwest Atlantic Fisheries Organization Scientific Council Studies* 16: 25-37.
8. Shelton PA, **Fahrig L**, Millar RB. 1991. Uncertainty associated with cod-capelin interactions: how much is too much? *Northwest Atlantic Fisheries Organization Scientific Council Studies* 16: 13-19.
9. **Fahrig L**. 1991. Simulations relevant to the 1/3 harvesting rule for Northern cod. *Canadian Atlantic Fisheries Advisory Committee Research Document* 91/34.
10. **Fahrig L**. 1991. Evaluation of stock protection strategies based on areal quotas. *International Council for the Exploration of the Sea C.M.* 1991/D:36.
11. **Fahrig L**, Atkinson DB. 1990. Concurrent exploitation of multiple stocks: a redfish simulation study. *International Council for the Exploration of the Sea C.M.* 1990/G:26.
12. **Fahrig L**. 1990. Effect of fishery competition on management choices. *Canadian Atlantic Fisheries Advisory Committee Research Document* 90/39.

13. **Fahrig L**, Atkinson DB. 1990. A 2-species redfish model. *Canadian Atlantic Fisheries Advisory Committee Research Document* 90/40.
14. Millar RB, **Fahrig L**, Shelton P. 1990. Effect of capelin biomass on cod growth. *International Council for the Exploration of the Sea C.M.* 1990/G:25.
13. Shelton PA, **Fahrig L**, Millar RB. 1990. Uncertainty associated with cod-capelin interactions. *International Council for the Exploration of the Sea C.M.* 1990/D:21.

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## INVITED PRESENTATIONS

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### Conference Plenaries, Keynotes, and other Prestigious Lectures

- 2020** Conference Plenary: World Biodiversity Forum, Davos, Switzerland, 25 Feb 2020
- 2019** Conference Breakfast Plenary: Royal Society of Canada Annual Meeting, Ottawa, Ontario, Canada, 22 Nov 2019
- Convocation Address, Carleton University, Ottawa, Ontario, Canada, 9 Nov 2019
- Romanowski Lecture Series: *three lectures* at Montréal Science Centre (16 Oct), Redpath Museum (17 Oct), and Ontario Science Centre (5 Nov), associated with the Miroslaw Romanowski Medal (Royal Society of Canada), awarded in 2018
- 2018** Conference Plenary: US Association of Landscape Ecology Annual Conference, Chicago, Illinois, USA, 8-12 April 2018
- 2017** Conference Plenary: Colloque sur l'écologie routière et l'adaptation aux changements climatiques, Québec City, Québec, Canada, 24 October 2017
- Conference Keynote: Bavarian Forest National Park 2nd International Conference on Forest Management, Grafenau, Germany, 27 April 2017
- 2014** Conference Plenary: International Association for Great Lakes Annual Conference, Hamilton, Ontario, Canada, 27 May 2014
- 2013** Conference Plenary: R.E. Peter Biology Conference, University of Alberta, Edmonton, Alberta, Canada
- Conference Plenaries (*two lectures*): Swedish University of Agricultural Sciences Annual Ecology Conference 2013, Uppsala, Sweden
- Conference Plenary: Annual Conference of the Centre d'étude de la forêt, Montebello, Québec, Canada
- 2011** Conference Opening Plenary: Road Ecology Brazil 2011, National Road Ecology Conference, Lavras, Brazil

- Conference Opening Plenary: Routes et faune terrestre: de la science aux solutions, Road Ecology Conference, Québec City, Québec, Canada
- Conference Opening Plenary: Wisconsin Wetlands Association Annual Conference, Baraboo, Wisconsin, USA
- 2010** Conference Opening Plenary: Infra Eco Network Europe 2010 International Conference on Ecology and Transportation, Valence, Hungary
- 2006** Conference Plenaries (*two lectures*): Spring Ecology Conference, Madison Ecology Group, University of Wisconsin, Madison, Wisconsin, USA
- 2005** Conference Keynote: Landscape Scale Effects of Roads on Biodiversity Conference, Giessen, Germany

### Invited Lectures at Special Symposia and Workshops

- 2020** Presentation on "Mitigating for mortality is more important than mitigating for connectivity" to the III Iberoamerican Congress on Biodiversity and Road Infrastructure (CIBIV 2020) organized by the Brazilian Center for Road Ecology (CBEE), 7-11 December 2020
- 2020** Presentation and discussion on "45 Years of SLOSS – Single Large or Several Small Reserves?" at Community Ecology 2020: one-week workshop co-organized by 8 Brazilian universities (> 500 people attending), 3 Sept 2020
- 2019** Symposium on "Wildlife-Vehicle Collision Reduction", International Conference on Ecology and Transportation (ICOET), Sacramento, California, USA, 24 Sept 2019
- 2018** Symposium on "Linking social and ecological processes in agricultural systems", North American Society for Conservation Biology Annual Meeting, Toronto, Ontario, Canada, 23 July 2018
- 2017** Led workshop on "How to write a scientific paper that people will want to read (and cite!)", Société Québécoise pour l'Étude Biologique du Comportement (SQÉBC) Congrès 2017, University of Ottawa, Ottawa, Canada, 3 November 2017
- 2015** Symposium on "How Basic Ecology Has and Will Continue to Shape Conservation Science", Ecological Society of America 100th Anniversary Meeting, Baltimore, Maryland, USA
- 2014** Road-valley and watercourse crossings: advancing ecosystem science into policy and practice, U Toronto /Toronto Regional Conservation Authority, Toronto, Ontario, Canada
- 2013** Symposium to mark the retirement of Richard Forman, founder of North American landscape ecology, Harvard University, Boston, Massachusetts, USA
- Symposium to mark 50 years since MacArthur and Wilson's Theory of Island Biogeography, International Biogeography Society Meeting, Miami, Florida, USA

- 2012** FarmLand Europe Research Network, Montpellier, France  
Symposium on “Future directions in the study of habitat fragmentation”, Brazilian Ornithological Congress, Maceio, Brazil
- 2011** Crafoord Prize Symposium, to honour awarding of the Crafoord Prize to Ilkka Hanski, Stockholm, Sweden  
Ottawa-Carleton Institute of Biology Annual Symposium, Carleton University, Ottawa, Ontario, Canada
- 2010** L'Institut National de la Recherche Agronomique, Toulouse, France
- 2009** FarmLand Europe Research Network, Centre national de la recherche scientifique, Montpellier, France  
Ecology and Evolution of Conservation Symposium, Canadian Society for Ecology and Evolution, Halifax, Nova Scotia, Canada  
Stability of Altered Forest Ecosystems Tropical Forest Fragmentation Experiment Symposium, Imperial College London, Silwood Park Campus, UK  
Human-Environment Interface, Carleton University, Ottawa, Ontario, Canada
- 2007** Symposium on “Conservation and Transportation”, International Conference on Ecology and Transportation / Society for Conservation Biology, Little Rock, Arkansas, USA  
Roads and Ecopassages Forum, Toronto Zoo, Toronto, Ontario, Canada
- 2006** Vegetation Management and Landscape Design: From Principles to Practice Symposium, Bowral, Australia
- 2005** Ontario Ecology and Ethology Colloquium, Carleton University, Ottawa, Ontario, Canada
- 2003** Cary Conference, Institute for Ecosystem Studies, Millbrook, New York, USA  
Swedish University of Agricultural Sciences, Uppsala, Sweden
- 2001** Ecological Integration Symposium, Texas A&M University, College Station, Texas, USA  
International Conference on Ecology and Transportation, Keystone, Colorado, USA  
'Distinguished Panelist' for symposium on Preparing Landscape Ecologists for the 21st Century, US Association of Landscape Ecology, Michigan State University, East Lansing, Michigan, USA  
Spatial Planning for Long-term Conservation of Biodiversity, US Association of Landscape Ecology, Michigan State University, East Lansing, Michigan, USA  
Forest Fragmentation: Wildlife Management Implications, Portland, Oregon, USA
- 2000** Spatial Ecology Symposium, Annual Meeting of the Ecological Society of America, Snowbird, Utah, USA
- 1999** Spatial Ecology Conference on Habitat Loss, Helsinki, Finland

- 1998** Distinguished Ecologist Lecture Series, Colorado State University, Fort Collins, Colorado, USA
- 1996** Theoretical Ecology and Conservation Biology, Annual Meeting of the Society for Conservation Biology, Providence, Rhode Island, USA
- Spatial Ecology and Wildlife Management: Simulation and Optimization in Landscape Analyses, Annual Conference of The Wildlife Society, Cincinnati, Ohio, USA
- 1994** Ecosystem and Landscape Level Effects, American Society of Mammalogists 75th Anniversary Meeting, Washington, D.C., USA
- 1992** Bridging the Gap Between Theoretical and Empirical Ecology II, University of Wisconsin, Madison, Wisconsin, USA

### Other Invited Lectures

- 2020** German Centre for Integrative Biodiversity Research, iDiv, Leipzig, Germany  
University of Lausanne, Department of Ecology and Evolution, Lausanne, Switzerland  
University of Calgary, Ecology and Evolutionary Biology, Calgary, Alberta, Canada
- 2018** Carleton University, Research Works, Ottawa, Ontario, Canada  
Michigan State University, Department of Fisheries and Wildlife
- 2017** Canadian Wildlife Service, River Road Laboratory, Ottawa  
Université de Sherbrooke, Département de biologie  
Environment and Climate Change Canada, National Wildlife Research Centre, Ottawa
- 2016** Oregon State University, Forest Ecosystems and Society Dept, Corvallis, OR, USA
- 2015** National Socio-Environmental Synthesis Center, Annapolis, Maryland, USA
- 2013** Mississippi State University, Wildlife Ecology Department, USA  
University of Toronto, Ecology and Evolution Department, Canada
- 2012** Environment Canada, National Wildlife Research Centre, Ottawa, Canada
- 2011** Université du Québec à Trois Rivières, Canada
- 2010** Université de Rennes, France  
Centre nationale de la recherche scientifique, Montpellier, France  
Queen's University, Department of Biology, Kingston, Canada  
McGill University, Department of Biology, Montreal, Canada  
St. Lawrence University, Canton, New York, USA
- 2009** Trent University, Biology Department, Peterborough, Canada
- 2008** University of Idaho, Fish and Wildlife Resources, USA

- 2006** University of Nebraska, School of Natural Resources, USA
- 2004** University of California, Road Ecology Center, Davis, CA, USA
- 2003** Miami University, Department of Zoology, Oxford, Ohio, USA  
Environment Canada, National Wildlife Research Centre, Ottawa, Canada
- 2002** Trent University, Department of Biology, Peterborough, ON, Canada  
University of Chile, Department of Ecological Science, Santiago, Chile
- 2001** University of Florida, Gainesville, Florida, USA
- 1999** Institute of Ecosystem Studies, Millbrook, NY, USA
- 1997** McGill University, Dept. Biology, Montreal, Canada
- 1996** University of California, Ecology Seminar Series, Davis, USA  
University of Calgary, Dept. Biological Sciences, Canada  
University of Alberta, Dept. Biological Sciences, Edmonton, Canada
- 1995** Archbold Biological Station, Lake Placid, Florida, USA
- 1994** University of British Columbia, School of Forestry, Vancouver, Canada  
University of Toronto, Ecology Seminar Series, Canada
- 1993** Canadian Wildlife Service, Ottawa, Canada
- 1988** Federal Department of Fisheries and Oceans, St. John's, Newfoundland, Canada  
McGill University, Department of Geography, Montreal, Canada  
University of Virginia, Blandy Ecological Research Ctr., Charlottesville, VA, USA  
University of Maryland, Chesapeake Biological Laboratory, Solomons, MD, USA  
University of Manitoba, Department of Zoology, Winnipeg, Manitoba, Canada  
Ohio State University, Department of Zoology, Columbus, Ohio
- 1986** Trent University, Department of Biology, Peterborough, Ontario, Canada  
Cornell University, Section of Ecology and Systematics, Ithaca, New York

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## PROFESSIONAL, LEADERSHIP, AND SERVICE ACTIVITIES

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### Editorial, and Establishment of New Journals

- 2014-present** Editor-in-Chief of the journal *Current Landscape Ecology Reports* (Springer)
- 1995-2010** Member of editorial board for the journal *Ecology and Society*, formerly *Conservation Ecology*
- 2000-2006** Member of advisory board for the International Association for Landscape Ecology Book Series in Landscape Ecology
- 1998-2003** Member of editorial board for the journal *Landscape Ecology*
- 1998-2002** Member of editorial board for the journal *American Naturalist*
- 1997-1999** Member of editorial board for the journal *Ecosystems*
- 1994-1998** Member of editorial board for the journal *Conservation Biology*
- 1993-1995** Co-founder of the journal *Ecology and Society* (formerly *Conservation Ecology*), the world's first fully electronic scientific journal and the first ecology journal with double-blind review

## Peer Review of Proposals and Awards

### Review Panels

- 2019-** Member, Royal Society of Canada Fellow Committee, Life Sciences Division (to evaluate nominations of RSC Fellows)
- 2019-** Member, MacArthur Award Committee, Ecological Society of America
- 2016-2017** Member, NSERC 2017 Joint Prizes Selection Committee (for Brockington, Polanyi, and Herzberg prizes)
- 2013-2014** Co-Chair, Ecology and Evolution Panel, Natural Sciences and Engineering funResearch Council of Canada (NSERC) Discovery Grants
- 2011-2013** Member, Ecology and Evolution Panel, NSERC Discovery Grants
- 2006-2007** Member, Carty Research Awards Committee (Carleton University)
- 2000** Nominator (invited): Kyoto Prize in Ecology and Evolution
- 1997-2001** Member, Review panel for World Wildlife Fund McNaughton Conservation Graduate Scholarships
- 1993** Member, academic review panel for Ontario Graduate Scholarships program

### Additional Proposals Reviews

#### *Natural Sciences and Engineering Research Council of Canada (NSERC)*

Discovery Grants

Strategic Grants

Gerhard Herzberg Canada Gold Medal for Science and Engineering

Canada Research Chairs  
Northern Research Chair  
Forestry Canada Program  
E.W.R. Steacie Memorial Fellowships  
Women's Faculty Award

*Canada Council*

Killam Prize

*National Science Foundation (USA)*

Ecology Program  
Population Biology Program  
Long-term Research in Environmental Biology Program  
Special Projects Program  
Small Business Innovation Research Program

*United States Department of Agriculture*

Research Grants Program

*Natural Environment Research Council (UK)*

Ecology Program

*French Foundation for Research (France)*

Center for Synthesis and Analysis on Biodiversity

*Carleton University*

Carty Research Fellowship Awards

*Chapman and Hall Publishers*

Book proposal reviews in landscape ecology

## Peer Review of Manuscripts

### Reviewed manuscripts for the following journals

<i>American Midland Naturalist</i>	<i>Ecological Modelling</i>
<i>American Naturalist</i>	<i>Ecological Monographs</i>
<i>Australian Journal of Ecology</i>	<i>Ecological Research</i>
<i>Canadian Field-Naturalist</i>	<i>Ecology</i>
<i>Canadian Journal of Fisheries and Aquatic Sciences</i>	<i>Ecology Letters</i>
<i>Canadian Journal of Zoology</i>	<i>Economic Botany</i>
<i>Conservation Biology</i>	<i>Ecoscience</i>
<i>Conservation Ecology</i>	<i>Ecosystems</i>
<i>Ecography</i>	<i>Entomologia Experimentalis et Applicata</i>
<i>Ecological Applications</i>	<i>Forest Ecology and Management</i>
<i>Ecological Bulletins</i>	<i>Functional Ecology</i>
	<i>Global Ecology and Biogeography</i>



*Journal of Applied Ecology*  
*Journal of Avian Biology*  
*Journal of Ecology*  
*Journal of Herpetology*  
*Journal of Wildlife Management*  
*Landscape and Urban Planning*  
*Landscape Ecology*  
*Marine Biology*  
*Methods in Ecology and Evolution*  
*North American Journal of Fisheries Management*  
*Oecologia*  
*Oikos*

*PLOS Computational Biology*  
*Proceedings of the National Academy of Sciences*  
*Proceedings of the Royal Society B: Biological Sciences*  
*Risk Analysis*  
*Theoretical Population Biology*  
*Science*  
*Urban and Landscape Planning*  
*Vie et Milieu*  
*Web Ecology*  
*Wildlife Monographs*  
*Wildlife Research*

### Independent Review of Reports and Programs

- 2015** Review of Natural Resource Conservation program, Faculty of Forestry, University of British Columbia, Vancouver, British Columbia, Canada
- 2014** Review of proposed road expansion through National Capital Greenbelt lands, Stony Swamp, National Capital Commission, Ottawa, Ontario, Canada
- 2014** Review of class action report for road mitigation measures, Government of Newfoundland, St. John's, Newfoundland, Canada
- 2010** Review of conservation planning priorities for the William and Flora Hewlett Foundation Environment Program, Menlo Park, California, USA
- 2007** Review of National Agri-Environmental Standards Initiative for Agriculture and Agri-Food Canada, Canada
- 2004** Review of the National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, California, USA
- 1999** Review of environmental impact assessment for Storm Mountain Lodge, Banff, Alberta, for Parks Canada, Canada

### External Evaluation of Tenure/Promotion Applications

- 2020** Simon Fraser University, Canada  
 Oregon State University, USA
- 2019** University of Lethbridge, Canada
- 2018** University of British Columbia, Canada  
 University of Cincinnati, USA  
 University of Alberta, Canada

- 2017** University of Minnesota, USA
- 2015** University of Manitoba, Canada  
Tufts University, USA  
University of Alberta, Canada
- 2014** University of Toronto, Canada  
Swedish University of Agricultural Sciences, Sweden  
University of British Columbia, Canada
- 2013** Swedish University of Agricultural Sciences, Sweden  
University of Cincinnati, USA  
Clarkson University, USA  
University of Wisconsin, Madison, USA
- 2012** Ben-Gurion University of the Negev, Israel  
University of New Brunswick, Canada  
Texas Tech University, USA
- 2011** University of Washington, USA  
University of Western Ontario, Canada  
University of Toronto, Canada
- 2009** University of Alberta, Canada  
University of Colorado, USA  
Memorial University of Newfoundland, Canada
- 2007** University of Toronto, Canada
- 2004** University of Miami, USA
- 2002** University of Colorado, USA
- 2001** University of British Columbia, Canada

### Chair/Organizer of Scientific Meetings

- 2020** Organizer and leader of workshop on "SLOSS - What Next?" held 5-6 Feb 2020 at German Centre for Integrative Biodiversity Research, iDiv, Leipzig, Germany
- 2016** Organizer of national-level workshop on Landscape Structure and Sustainable Agriculture, Carleton University, Ottawa, Ontario, Canada
- 2012** Co-organizer (with J.-L. Martin and C. Serami) of third international workshop on Effects of Landscape Heterogeneity on Farmland Biodiversity, Centre national de la recherche scientifique, Montpellier, France

- 2010** Co-organizer (with J.-L. Martin) of second international workshop on Effects of Landscape Heterogeneity on Farmland Biodiversity, Centre national de la recherche scientifique, Montpellier, France
- 2009** Steering Committee Member for the Canadian Network of Conservation Professionals, Ottawa, Ontario, Canada  
Co-organizer (with J.-L. Martin) of international workshop on Effects of Landscape Heterogeneity on Farmland Biodiversity, Centre national de la recherche scientifique, Montpellier, France
- 2008** Co-convenor and facilitator of workshop on “Research needs for transportation planning”, Ontario Road Ecology Meeting, Toronto, Ontario, Canada
- 2002-2003** Co-organizer of symposium on "Habitat: quality, size and configuration and its role in population viability" for International Congress on Landscape Ecology, Darwin, Australia
- 2002-2003** Member of the Steering Committee for the 2002 Cary Conference, Institute of Ecosystem Studies, Millbrook, New York, USA
- 1999-2000** Member of the International Scientific Committee of the 2000 World Conference on Natural Resource Modelling, Resource Modelling Association, June 26-30, Wageningen, The Netherlands
- 1997-2000** Member of Scientific Steering Committee for joint meeting of Ecological Society of America and British Ecological Society, April 12-16, Orlando, Florida, USA
- 1998-1999** Member of Program Committee for International Congress on Landscape Ecology, Snowmass Village, Colorado, USA
- 1998** Organizer and Chair of Theoretical Ecology symposium at Ecological Society of America Annual Meeting, Baltimore, USA
- 1990** Chair of discussion session at the meeting “Bridging the Gap Between Theoretical and Empirical Ecology”, Broadus, Texas, USA
- 1990** Chair of discussion session on Boreal Multispecies Modelling at International Council for the Exploration of the Sea meeting in Bergen, Norway
- 1988** Chair of session “Population and Community Modelling” at the Ecological Society of America Annual Meeting, Davis, California, USA

### Posts in Professional Organizations

- 2009-pres** Member of the Board, Ontario Road Ecology Group
- 2001-2005** Member of U.S. National Academy of Sciences Committee on Ecological Effect of Road Density
- 2000-2005** Member, Board of Science, Resilience Alliance, Sweden
- 1998-99** Chair, Theoretical Ecology Section, Ecological Society of America

- 1998** Member of Search Committee for Editor-in-Chief of Ecological Society of America website
- 1997-98** Vice-Chair, Theoretical Ecology Section, Ecological Society of America

### Host of Visiting Scientists

- 2018** Dr. Víctor Arroyo-Rodríguez, on sabbatical from Universidad Nacional Autónoma de México
- 2017-2018** Dr. Eliana Cazetta, on sabbatical from State University of Santa Cruz, Brazil
- 2016-2017** Dr. Lluís Brotons, on sabbatical from Centre for Mediterranean Forest Research, Solsona, Spain
- 2015-2016** Dr. Angela Lausch, on sabbatical from UFZ, Leipzig, Germany
- 2014** Dr. Yanping Wang, Zhejiang University, professor from China (Feb-Aug)
- 2012** Dr. Juan Delgado García, government scientist from Spain (June-Aug)
- 2008** Dr. Nicola Koper, on sabbatical from University of Manitoba (Oct, Nov)
- 2007** Dr. David Currie, on sabbatical from University of Ottawa (Sept-Dec)

### Communication of Science to the Wider Community

- 2020** Presentation "Smaller Fields are Better for Wildlife" for Science Literacy Week, Ottawa Public Library, 24 September
- Interview for Ottawa Citizen journalist Bruce Deachman on farmland biodiversity research for article "Carleton researcher examines how changing crop field sizes can radically improve biodiversity" published 4 August
- Interview for Capital Current journalist Bailey Moreton on farmland biodiversity research
- Interview for University Affairs magazine journalist Moira Macdonald for article on academics giving up air travel to reduce their carbon footprint
- Interview for Washington DC - based science journalist Gabriel Popkin about habitat fragmentation research
- Interview for the New York Times journalist Kendra Pierre-Louis on cargo ship travel to reduce carbon footprint.
- Interview for freelance journalist Ben Goldfarb on road ecology research
- Interview for Raven Magazine, 13 July, by freelance science journalist Susan Nerberg (Montreal) on C19-Wild project

- 2019** Interview for the Globe and Mail journalist Ivan Semeniuk on habitat fragmentation and landscape connectivity  
Interview for Ontario Farmer Magazine and Manitoba Co-operator journalist Alex Binkley on biodiversity in farmland
- 2018** Interview for the Ottawa Citizen journalist Joanne Laucius on urban birds and human happiness  
Presentation to Discovery Café on species extinctions, Blackburn Hamlet, Ontario
- 2014-2017** 34 presentations on climate change causes, impacts and mitigation to community groups around Eastern Ontario: churches (Unitarian, United, Anglican), Community Centres, Rotary Club, Unions, Geophysicists Club, Anglican Men's Group, Environmental Groups (Green Energy Doors Open, Climate Commons)
- 2017** Research on habitat fragmentation mentioned in Post Media network article  
CBC Ottawa Morning radio interview on habitat fragmentation  
Interview for Ottawa Magazine on urban greenspace  
Interview for Ontario Farmer Magazine on biodiversity in farmland  
Royal Society induction mentioned in Eureka magazine
- 2015** Interviews with Ottawa Citizen (journalist Chris Cobb) and CBC Radio on climate change
- 2014** Interview for Globe and Mail on green cities;  
Presentation to Rideau Valley Conservation Authority on road mitigation;  
Interview for local radio (CFRA) on climate change
- 2011** Interview for local television in Lavras, Brazil on road ecology research
- 2010** Interview for Frontiers in Ecology and Environment on road ecology research
- 2009** Radio interview for CIUT radio station The Green Majority show on road ecology research  
Interview for CanWest News Service on road ecology research  
Interview for article in Carleton's "Research Works"
- 2008** Interview for article in Canadian Wildlife Magazine on road ecology research  
Interview for article in Carleton's "Research Works"
- 2007** Interview for Nature on roads and mammals research
- 2006** Radio interview on landscape ecology and road ecology research for Madison radio station
- 2004** Interview for cover article (and cover photo) in University Affairs Magazine on work-life balance
- 2003** Television interview on landscape ecology research and research with National Wildlife Research Centre for The New RO

- 2001** Interview for article on ecological impact of roads for "Seasons" magazine;  
Radio interview for CBC "All in a Day" show;  
Presentation at announcement of a new collaborative research partnership and a revitalization of Environment Canada's National Wildlife Research Centre
- 2000-2002** Participation in North American "Road System Ecology" initiative, to present scientific information about the ecological impacts of roads to the transportation planning community through meetings and publications.
- 1999** Interview for Discovery Channel on ice storm research project;  
Participated in Canadian Nature Federation brainstorming session;
- 1998** Interview for University of Maryland study on new journals in ecology;
- 1997** Participated in presentation to parliamentary committee on endangered species legislation
- 1996** Co-wrote letter on electronic journals, published in *Science*;  
Interview for *Canadian Nature* magazine;  
Co-organized symposium on Landscape Ecology at Carleton;
- 1995** Interview for "Quirks and Quarks" CBC science radio show;  
Presentation (with graduate students) to teachers for professional development day.  
Participated in "job shadowing" program for highschool student
- 1994** Participated in CAUT (Canadian Association of University Teachers) MP lobby action for maintenance of Federal Government research funding;  
Presentation to the Board of Governors of Carleton University;  
Participated in "job shadowing" program for highschool student
- 1993-1997** Member of a steering committee at Carleton University to set up an electronic on-line journal (to be available on the internet) in the field of Conservation Ecology.
- 1992** Presentation to the Canadian Science Writers' Association (CSWA) Student Writing Workshop (International Development Research Centre)

### Committee Work and Service at Carleton University

- 2020-present** Graduate Studies Committee (Biology)
- 2014-2019** Tenure and Promotions Committee (Biology)
- 2019** Faculty Hiring Committee (Environmental Sciences)
- 2018** Departmental TA awards committee
- 2017-2018** NSERC Development Grants Committee (University)

<b>2016-2017</b>	Faculty Hiring Committee (Biology)
<b>2016</b>	CFI LOI screening committee (University)
<b>2015-2016</b>	Department Chair Search Committee (Biology)
<b>2015</b>	Faculty Hire Search, Environmental Sciences
<b>2013-2014</b>	Graduate Mentor Awards Committee
<b>2001-2002, 2011-2012, 2013-2014</b>	Tenure and Promotions Committee (Biology)
<b>1995-present</b>	Faculty of Science Environmental Science Committee
<b>2011-2012</b>	Science Faculty Research Advisory Committee
<b>2010-2012</b>	Faculty Research Mentor for Biology
<b>2010-2012</b>	Priorities and Planning Committee, Dept. Biology
<b>2006-2012</b>	Senate Honorary Degrees Committee
<b>2006-2010</b>	Associate Chair, Graduate Studies in Biology
<b>2007-2009</b>	Director, Ottawa-Carleton Institute of Biology
<b>2008-2009</b>	Graduate Studies Strategic Planning Committee
<b>2006-2007</b>	Carleton Graduate Recruitment Committee
	Carleton Working Group on Biodiversity Convention
<b>2000-2004</b>	Associate Chair, Undergraduate Programs in Biology
<b>2003-2004</b>	Biology Department Curriculum and Recruitment Committee
<b>1991-1997, 2000-2002</b>	Biology Department Graduate Studies Committee
<b>2000</b>	University Task Force on Faculty Retention and Recruitment
<b>1993-2000</b>	Science Faculty Biology/Geography Combined Honours Committee
<b>1996-1997</b>	Universal Computer Access Strategy Development Committee
<b>1995-1996</b>	Senate Committee on Computer Policy and Planning
<b>1992-1995</b>	Biology Department Library Representative
<b>1994, 2014-2015</b>	Biology Department Search Committee for Chair
<b>1994</b>	Biology Department Search Committee for Ecologist Position
<b>1991-1993</b>	Biology Department Computer Committee (chair)
<b>1991-1992</b>	Biology Department Seminar Committee

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## TRAINING AND MENTORING

## Courses Taught

	Course Name	Course Level	Total Students
<i>Carleton University</i>			
2013-present	Conservation Biology	Third year	150
2001-present	Landscape Ecology	Fourth year	320
2017	Advances in Conservation Biology	Graduate (co-taught)	20
2001-2010	Landscape Ecology	Graduate	50
1992-2001	Analysis of Ecological Relationships	Third year	300
1992-2001	Advances in Community and Population Ecology	Graduate (co-taught)	50
1999-2000	Ecology of Southern Florida	Third year	24
1993-1999	Quantitative Ecology	Graduate	70
1993-1997	Explorations in Biology	First year	1,200
<i>Swedish University of Agricultural Science</i>			
1995	Landscape Ecology	Graduate (co-taught)	20
<i>Memorial University of Newfoundland</i>			
1990	Natural Resources	Third year	30
<i>University of Virginia</i>			
1989	System Modelling II	Graduate (co-taught)	10
1987-1988	System Modelling I	Graduate (co-taught)	10

## Supervisory and Mentoring History

### Supervisor of Postdoctoral Fellows

		Current Position
2020-pres	Federico Riva	
2019-2020	Karine Pigeon (co-sup with Bennett)	NGO Researcher, Yellowstone to Yukon Conservation Initiative, Canada



<b>2016-2018</b>	Jenny McCune (co-sup with Bennett)	University Professor, University of Lethbridge, Canada
<b>2015-2018</b>	Amanda Martin	Government Scientist, National Wildlife Research Centre, ECCC, Canada
<b>2016-2017</b>	Fernanda Teixeira	PDF, Universidade Federal do Rio Grande do Sul, Brazil
<b>2014-2015</b>	Paul Miguet	PDF, French National Institute for Agriculture, Food, and Environment (INRAE), France
<b>2013-2015</b>	Trina Rytwinski (co-sup van der Grift, van der Ree)	PDF, Carleton University, Canada
<b>2013</b>	Jude Girard (co-sup King, Mitchell, Lindsay)	Government Researcher, ECCC, Canada
<b>2012-2013</b>	Dennis Duro (co-sup King, Mitchell, Lindsay)	Independent Research Scientist
<b>2011-2013</b>	Nathan Jackson	Bioinformatics Scientist, National Jewish Health, Center for Genes, Environment, and Health, USA
<b>2010-2013</b>	Heather Bird Jackson	Research Professor, University of Tennessee, Knoxville, USA
<b>2010</b>	Jon Pasher (co-sup King, Mitchell, Lindsay)	Government Scientist, National Wildlife Research Centre, ECCC, Canada
<b>2010</b>	Adam Smith (co-sup King, Mitchell, Lindsay)	Government Scientist, National Wildlife Research Centre, ECCC, Canada
<b>2007-2008</b>	Raphaël Proulx	University Professor, Université du Québec à Trois Rivières, Canada
<b>2004-2006</b>	Joerg Tews	Research Scientist with Noreca Consulting; Adjunct Professor, Acadia University, Canada
<b>2003-2004</b>	Krista Ryll	Government Scientist, Natural Resources Canada
<b>2001-2003</b>	Jochen Jaeger	University Professor, Concordia University, Canada
<b>2000-2001</b>	Jeff Bowman	Government Scientist, Ontario Ministry of Natural Resources; Adjunct Prof, Trent U
<b>1997-1999</b>	Lutz Tischendorf	Independent Researcher, ELUTIS Modelling and Consulting, Canada; CEO / CTO at ESEMOS GmbH
<b>1996</b>	Kringen Henein	Instructor, Carleton University, Canada (retired)

**Supervisor of PhD Dissertations**

**2020-present** Samantha Morin  
Andrew Habrich

- 2018-present** Iman Momeni (co-supervised with Joe Bennett)
- 2017-present** Christine Anderson (co-supervised with Paul Smith, ECCC)
- 2011-2019** Sara Collins; *current - contract research with ECCC*
- 2009-2015** Amanda Martin (NSERC Alexander Graham Bell award holder); *current - government scientist, ECCC*
- 2008-2014** Pauline Quesnelle (NSERC award holder, co-supervised with K. Lindsay,); *current - government research, Parks Canada*
- 2006-2014** Glenn Cunnington (OGS, NSERC award holder); *current - environmental consulting for RiverStone Environmental*
- 2007-2012** Jude Phillips Girard (NSERC, OGS award holder, co-supervised with P. Mineau); *current - government research, Environment and Climate Change Canada*
- 2007-2012** Trina Rytwinski (NSERC award holder); *current – Postdoctoral Fellow*
- 2005-2010** Adam Smith (co-supervised with C. Francis, NSERC award holder); *current - government researcher, ECCC*
- 2003-2009** Sara Gagné (NSERC award holder); *current - university professor*
- 2004-2008** Felix Eigenbrod (NSERC award holder); *current - university professor*
- 2001-2008** Rebecca Tittler (NSERC, Fonds de recherche nature et technologies (FQRNT) award holder); *current – Postdoctoral Fellow*
- 1997-2007** Julie Brennan (NSERC and Fonds Québécois de la Recherche sur la Nature et les Technologies award holder)
- 1999-2003** Jeff Holland (NSERC award holder); *current - university professor*
- 1995-2002** Tom Contreras; *current - university professor*
- 1993-2000** Brett Goodwin (NSERC, OGS award holder); *current - university professor*
- 1995-2000** Darren Bender (NSERC award holder); *current - university professor*
- 1992-1996** Lisa Venier (Ph.D., NSERC award holder); *current - government scientist, Canadian Forest Service*

**Supervisor of PhD International Exchange Students and Postdoctoral Fellows**

- 2019-2020** Tatiana Motta-Tavares, PhD student from Londrina State University, Brazil (Aug-Feb)  
Tainá Oliveira Assis, PhD student from National Institute for Space Research (INPE), Brazil (Sept-Aug)
- 2018** Marisela Ruíz, PhD student from Universidad Nacional Autónoma de México, México (Sept-Dec)
- 2017** Ben Li, PhD student from East China Normal University, China (Sept-Dec)

- 2015-2016** Igor Coelho, PhD student from Federal University of Rio Grande do Sul, Brazil (Sept-Aug)
- 2014-2015** Ludmila Rattis, PhD student from Universidade de Estadual de Campinas, Brazil (July-June)
- 2014** Poliana Mendes, PhD student from Universidade Federal de Goiás, Brazil (April-Dec)
- Fernanda Zimmermann Teixeira, PhD student from Universidade Federal do Rio Grande do Sul/UFRGS, Brazil (Feb-Aug), with Scott Mitchell
- 2013** Juliana Silveira dos Santos, PhD student from Universidade Estadual Paulista, Brazil (Sept-Dec)
- Giulia Sozio, PhD student from La Sapienza University of Rome, Italy (July-Dec)
- Alberto Suarez Esteban, PhD student from Doñana Biological Station, Spain (Mar-May)
- Clémentine Azam, MSc student from University of Science and Technology of Montpellier, France (April-Sept)
- Emilia Castilleja, MSc student from Universidad Nacional Autónoma, Mexico (May)
- 2011-2012** Rémi Dufлот, PhD student from University of Rennes, France (Dec-Feb)
- 2011** Fernando Vargas, PhD student from Universidad de los Andes, Colombia (Mar-July)
- 2008** Vincenzo Di Felice, PhD student from Università degli Studi della Tuscia, Italy (Jan, Feb)
- 2005** Daniel Gustafsson, PhD student from Sweden (Mar)
- 2004** Thomas Ranius, Postdoctoral Fellow from Lund University, Sweden (Mar, April)

**External Examiner of PhD Candidates**

- 2014** Megan Hornseth, Trent University
- 2013** Mathieu Leblonde, Université du Québec à Rimouski
- Paul Miguet, Université de Montpellier 2, France
- 2011** Simon Daoust, Université de Montréal
- 2010** Thomas Delattre, Université de Rennes, France
- Marie Tremblay, University of Alberta
- 2008** Josephine MacHunter, Monash Research Graduate School, Australia
- 2003** Andreas Seiler, Swedish University of Agricultural Sciences
- 1999** Claudio Celada, University of Alberta
- 1998** Andrew Tyre, University of Adelaide

**Supervisor of MSc Theses**

- 2020-present** Sean Patterson  
Alec Medd
- 2019-present** Kayla Attinello (co-supervised with S. Wilson)  
Lindsay Daly (co-supervised with A. Smith)  
Joe Gabriel (co-supervised with A. Martin)  
Adrienne Hajdasz (co-supervised with G. Mitchell)
- 2018-present** Rowen Murphy (co-supervised with A. Martin)  
Michelle Vala (co-supervised with S. Wilson)
- 2017-present** Anna Tran Nguyen (co-supervised with C. Francis)
- 2016-2018** Claire Farrell (co-supervised with G. Mitchell, S. Wilson); *current - scientist, Wildlife Conservation Society*  
Lauren Moretto (co-supervised with A. Smith, C. Francis; OGS); *current - conservation intern, Nature Conservancy of Canada*  
Lauren Hepburn (co-supervised with J. Zelenski, A. Smith); *current - research assistant, Carleton U*  
Julia Put (co-supervised with G. Mitchell); *current - contract researcher, ECCC*
- 2015-2017** Andrew Moraga (co-supervised with A. Martin); *current - PhD student, Univ Waterloo*
- 2014-2016** Margaret Sawatzky (Ontario Graduate Scholarship (OGS) award holder); *current: scientific planning officer, Geological Survey of Canada*
- 2013-2015** Genevieve Perkins (co-supervised with A. Smith); *current - geomatics specialist, Ministry of Forests Lands and Natural Resource Operations, BC*
- 2012-2015** Olivia Monck-Whipp; *current - coordinator of conservation biology, Nature Conservancy of Canada*  
Tom Hotte (co-supervised with P. Mineau); *current - crop phenomics technician, Agriculture Canada*
- 2012-2015** Alex Koumaris; *current - contract researcher, ECCC*
- 2012-2014** Sheldon Kallio (co-supervised with H. Jackson); *current - data analyst, Three Hive Consulting Inc.*
- 2011-2013** Joanna Jack (OGS award holder); *current - environmental consulting*  
Richard Downing; *current - high school teacher*
- 2010-2012** Alex Dorland; *current – Biology Lab Coordinator at Carleton University*
- 2009-2011** Heather Coffey (Social Sciences and Humanities Research Council (SSHRC) award holder); *current - food industry*

- Sean Feagan; *current - environmental consulting*
- Theresa Patenaude (NSERC award holder); *current - speech pathologist*
- 2008-2010** Kevin Ethier; *current - policy analyst, ECCC*
- 2007-2009** Keith Munro; *current - PhD candidate*
- Patricia Summers; *current - coordinator, Mississippi Valley Field Naturalists*
- Ashley McLaren (OGS award holder); *current - government research, Ontario Ministry of Natural Resources*
- 2004-2006** Adam Ford (NSERC award holder); *current - assistant professor, UBC*
- Trina Rytwinski (NSERC award holder); *current - PDF, Carleton U*
- 2003-2005** Amanda Dam
- 2001-2004** Stéphanie Duguay (FQRNT award holder); *current - biologist, Groupe Rousseau Lefebvre*
- 2001-2003** Maxim Larrivée; *current - director, Montréal Insectarium*
- Rachelle McGregor; *current - procurement officer, Government of Canada*
- 2000-2002** Neil Charbonneau; *current - contracting officer, ECCC*
- 1999-2001** Melissa Vance (FQRNT award holder; winner of Senate Medal for Outstanding Academic Achievement); *current - senior policy analyst, ECCC*
- 1997-1999** Michelle Lee (OGS award holder); *current - managing editor, Avian Conservation and Ecology*
- Laurie Carr (NSERC award holder)
- 1996-1997** Jean Langlois; *current - parks planner, Yukon Department of Environment*
- 1993-1996** Shealagh Pope (NSERC award holder); *current - senior advisor, Treasury Board, Government of Canada*
- Andrew McAllister; *current - data governance analyst, Government of Canada*
- 1993-1995** John Pedlar (NSERC award holder); *current - forest landscape biologist, Natural Resources Canada*
- Kurtis Trzcinski

**Supervisor of Undergraduate Honours Theses**

- 2019-2020** Sara Khan (co-sup Amanda Martin)
- 2018-2019** Samantha Calabrese (co-sup Amanda Martin)
- Angelica Ramos (co-sup Greg Mitchell)
- 2017-2018** Jed Lloren (co-sup Jenny McCune)
- 2016-2017** Kathleen Dransfield O'Brien (so-sup A. Martin)

**2014-2015** David Van Olst (co-sup S. Mitchell)  
Shannon Graham (co-sup A. Martin)  
Lindsay Bellingham (co-sup S. Collins)  
Melissa Henry (co-sup A. Martin)  
Bruce Laurich (co-sup K. Conlan)

**2013-2014** Kristin Loisel-Lapointe

**2012-2013** Kiersti McMillan (co-sup H. Jackson)

**2011-2012** Tom Hotte (co-sup J. Girard)  
Brent MacDougall (co-sup S. Crowe)

**2010-2011** Tatyana Flick (co-sup S. Feagan, Science poster award)

**2008-2009** Lisa Hermsen  
Carolyn Dickey (co-sup A. Smith)  
David O'Connor (co-sup T. Rytwinski)

**2006-2007** Elysia Brunet (co-sup D. Bert)

**2005-2006** Tyler Wheeldon (co-sup S. Gagné, Environmental Sciences poster award)

**2004-2005** Kerri Widenmaier (Environmental Sciences poster award)

**2003-2004** Sarah Vincent (co-sup P. Mineau)

**2002-2003** Nicholas Lapointe  
Rebekah Rooney  
Tim Boland

**2001-2002** Rob Galdins  
Angela Brommit

**2000-2001** Angela Darwin (Science poster award)

**1999-2000** Sarah Derrane  
David Ladd

**1998-1999** Patti Swan  
Samantha Macko  
Neil Charbonneau

**1996-1997** Kevin Westerberg

**1995-1996** Melanie Filotas  
Jeff Holland  
Elizabeth Hay  
Rhod Bar

Richard Pither

**1994-1995** Ian Jonsen**1993-1994** Gillian Porter

### External Examiner of PhD Candidates at other Universities

**2014** Megan Hornseth, Trent University  
**2013** Mathieu Leblonde, Université du Québec à Rimouski  
**2013** Paul Miguet, Université de Montpellier 2, France  
**2011** Simon Daoust, Université de Montréal  
**2010** Thomas Delattre, Université de Rennes, France  
**2010** Marie Tremblay, University of Alberta  
**2008** Josephine MacHunter, Monash Research Graduate School, Australia  
**2003** Andreas Seiler, Swedish University of Agricultural Sciences  
**1999** Claudio Celada, University of Alberta  
**1998** Andrew Tyre, University of Adelaide

### Advisor (member of advisory committee) of Graduate Students

**2020-present** Brandon Edwards (MSc, supervisors Joe Bennett, Adam Smith)  
**2019-present** Caitlyn Proctor (MSc, supervisor Joe Bennett)  
 Sarah Dolson (PhD, supervisor Heather Kharouba)  
**2018-present** Cécile Antoine (PhD, supervisor Jessica Forrest)  
 Vincent Fyson (MSc, supervisor Gabriel Blouin-Demers)  
 Audrey Turcotte (PhD, supervisor Gabriel Blouin-Demers)  
**2017-present** Jason Moggridge (MSc, supervisor Myron Smith)  
**2016-present** Marie-Ann Perron (MSc, supervisor Frances Pick)  
**2014-present** Andrew Rous (PhD, supervisor Steve Cooke)  
**2013-present** Edgar van der Grift (Ph.D.; supervisor P. Opdam: Wageningen University, The Netherlands)  
**2018-2020** Eden Gerner (MSc, supervisor Risa Sargent)  
**2012-2019** Genevieve Ferguson (PhD, supervisor Sue Bertram)

- 2017-2019** Hayley Paquette (MSc, supervisor Myron Smith)
- 2018-2019** Emina Alic (MSc, supervisor Heather Karouba)
- 2017-2018** Simon Venne (MSc, supervisor David Currie)
- 2016-2018** Calla Raymond (MSc, supervisor Joe Bennett)  
Johnathan Rich (MSc, supervisor David Currie)
- 2015-2018** Kate Docking (MSc, supervisor Scott Findlay)
- 2016-2017** Jessica Guezen (MSc, supervisor Jessica Forrest)  
Jill Brooks (MSc, supervisor Steve Cooke)
- 2014-2017** James Paterson (PhD, supervisor Gabriel Blouin-Demers)  
Rafael Xavier de Camargo (PhD, supervisor David Currie)
- 2014-2016** Michelle Fairbrother (MSc, supervisor Scott Mitchell)  
Chris Soulière (MSc, supervisor C. Francis)  
Teri Jones (MSc, supervisor Julie Morand-Ferron)
- 2013-2016** Lucy Meng (MSc; supervisor C. Francis)  
Victoria Nowell (MSc, supervisor Root Gorelick)
- 2012-2016** William Halliday (PhD, supervisor Gabriel Blouin-Demers)
- 2011-2016** Jessica Lockhart (MSc, supervisor Nicola Koper, University of Manitoba)
- 2010-2016** Laura Coristine (PhD, supervisor Jeremy Kerr)  
Irene McKechnie (PhD, supervisor Risa Sargent)
- 2013-2015** Thomas Villeneuve (MSc; supervisor C. Francis)
- 2011-2015** Danielle Fraser (PhD, co-supervisors Natalia Rybczynski, Root Gorelick)
- 2014-2014** Nixon Otieno (PhD, supervisor Raphaël Proulx, U. Québec à Trois Rivières)
- 2013-2014** Maxime Veilleux (MSc, supervisor Steve Cooke)
- 2012-2014** Rachel So (MSc, supervisor David Currie)  
Chris Brassard (MSc, supervisor Scott Findlay)
- 2011-2013** Andrew Kadykalo (MSc, supervisor Scott Findlay)  
Nick Cairns (MSc, co-supervisors Steve Cooke, Gabriel Blouin-Demers)
- 2010-2012** Gabrielle Fortin (MSc, supervisor Gabriel Blouin-Demers)
- 2006-2012** Kevin Walker (Ph.D., supervisor: David Currie)
- 2008-2012** Johannie Duhaime (M.Sc., supervisor Antoine Morin)
- 2004-2012** Leif Olson (Ph.D., supervisor: Kathryn Lindsay)
- 2003-2012** Paul Zorn (Ph.D., supervisor: Kathryn Lindsay)
- 2009-2011** Sarah Larocque (M.Sc., co-supervisors Steve Cooke, Gabriel Blouin-Demers)



- 2008-2011** Mark Taylor (M.Sc., supervisor: Steve Cooke)
- 2005-2011** Rachelle Desrochers (Ph.D., supervisors: David Currie and Jeremy Kerr)
- 2008-2010** Nora Szabo (Ph.D., supervisor Jeremy Kerr)  
Ian Seiferling (M.Sc., supervisor: Christian Messier, U. Montréal)  
Catherine Miller (M.Sc., supervisor Gabriel Blouin-Demers)
- 2007-2010** Julie Nadeau (M.Sc., supervisors: David Currie and Jeremy Kerr)  
Alexander MacDonald (Ph.D., supervisor: Jeremy Kerr)
- 2008-2009** Ewen Eberhardt (M.Sc., supervisor: Scott Mitchell)
- 2006-2009** Kyle Hanson (Ph.D., supervisor: Steve Cooke)
- 2006-2008** Laura Dingle (M.Sc., supervisor: Doug King)
- 2002-2007** Tania Sendel (M.Sc., supervisor: David Currie)  
Tim Haxton (Ph.D., supervisor: Scott Findlay)
- 2000-2007** Jaynie Stephenson (M.Sc., supervisor: Antoine Morin)
- 2002-2005** April Feswick (M.Sc., supervisor: Jeremy Kerr)  
Corben Bristow (M.Sc., supervisors: Scott Findlay and Antoine Morin)
- 2004-2005** Kirk Bowers (Ph.D., supervisor: Celine Boutin)
- 2000-2003** Sarah Derrane (M.Sc., supervisor: Scott Findlay)
- 2000-2002** Dagoberto Acevedo (M.Sc., supervisor: David Currie)  
Kristina Makkay (M.Sc., supervisor: Frances Pick)
- 2000-2001** Brian Giles (M.Sc., supervisor: Scott Findlay)
- 1999-2001** Wendy Dunford (M.Sc., supervisor: Kathy Freemark)
- 1997-2001** Jeff Houlahan (Ph.D., supervisor: Scott Findlay)
- 1995-2001** Robin Mackey (Ph.D., supervisor: David Currie)
- 1997-1999** Kerry Hecker (M.Sc., supervisor: Mark Forbes)
- 1995-1999** Brian Leung (Ph.D., supervisor: Mark Forbes)
- 1994-1999** Serge Parent (Ph.D., supervisor: Antoine Morin)
- 1994-1997** Angela Muir (M.Sc., supervisor: Hans Damman)  
Carol Potter (M.Sc., supervisor: Gray Merriam)
- 1993-1997** Paul Clark (M.Sc., supervisor: Scott Findlay)
- 1993-1996** Elizabeth Thompson (M.Sc., supervisor: Frances Pick)  
Awegechew Teshome (Ph.D., supervisor: John Lambert)
- 1992-1996** Maureen Toner (Ph.D., supervisor: Paul Keddy)
- 1992-1995** Garry Donaldson (M.Sc., supervisor: Jaroslav Pickman)

**1992-1993** Natalie Bourassa (M. Sc., supervisor: Antoine Morin)

### **Examiner of Additional Graduate Students**

- 2019** Catherine Jarjour – M.Sc thesis defense, Biology, U Ottawa
- 2019** Andrew Kadykalo - Chair of Ph.D. comprehensive exam, Biology
- 2013** Alisa Miller - M.Sc. thesis defense, Biology
- 2002** Christopher Butson - M.Sc. thesis defense, Geography and Environmental Studies
- 1998** Nancy Leonard - Chair of M.Sc. thesis defense, Biology  
Mikailu Sy - Ph.D. dissertation defense, Biology
- 1996** Kathleen Ismond - Chair of M.Sc. thesis defense, Biology  
Mikailou Sy - Chair of Ph.D. comprehensive exam, Biology
- 1994** François Lorenzetti - Ph.D. comprehensive exam, Biology  
Xiao-Bing Peng - Chair of M.Sc. thesis defense, Biology
- 1993** Philip Taylor - Ph.D. dissertation defense, Biology  
Harold Lee - M.Sc. thesis defense, Biology  
Hong Chen - M.Sc. thesis defense, Biology  
Colleen Heslop - Ph.D. comprehensive exam, Biology
- 1992** Barbara Szyszkowicz - Ph.D. dissertation defense, Mathematics and Statistics  
Rick Lanctot - Ph.D. comprehensive exam, Biology
- 1991** Halldor Palsson - Ph.D. dissertation defense, Economics

### **Supervisor of Assistants - Field, Laboratory, Computer Programming (co-supervised with graduate students and PDF's)**

- 2020** Colton Stephens, Xavier Morey-Besner
- 2019** Desiree White
- 2018** Erik Pervis, Rachele Lapensee, Hugh Metcalfe
- 2017** Erik Pervis, Patrick Gilhooly, Madison Donoghue
- 2016** Erik Pervis, Fatima Almalki
- 2015** Chris Love, Nathan Balog, Erik Pervis
- 2014** Erik Pervis

<b>2013</b>	Chris Love, Deanna Ellis
<b>2012</b>	Brandon Burda, Alison Bijman, Xin Yuan, Mike Henry, Brad Bloemendal, Matt Illes, Victoria Putinski, Josh Hubber, Kiersti McMillan, Matt Osse, Chris Bourgaize, Patrick Kirby, Eric Figerau, Melanie Bouchard, Jennifer McGill, Tess Walsh, Deanna Ellis
<b>2011</b>	Shauna Turney, Lisa Kopenen, Joanna James, Kevin Ethier, Melanie Bouchard, Victoria Putinski, Elyse Howat, Brian Campbell, Deanna Ellis, Thomas Parlee, Thomas Hotte
<b>2010</b>	Shauna Turney, Kristin Lapointe Seguin, Lisa Kopenen
<b>2009</b>	Trisha Mackie, Kaitlin Wilson
<b>2008</b>	Robin Visser, Keegan McGrath, Laura Doubleday, Sean Walkowiak
<b>2007</b>	Kristen Keyes, Bourne Auguste, Elysia Brunet
<b>2006</b>	Alexander MacIntosh, Tyler Wheeldon
<b>2005</b>	Tiffany Johnson, Alexander MacIntosh, Elizabeth Ross, Tyler Wheeldon, Alison Callahan
<b>2004</b>	Nikolai Chepelev, Qasim Khan
<b>2003</b>	Shawna Morrison, Penny Slight, Sarah Brown, Tara Lawrence
<b>2002</b>	Rebekah Rooney, Philip Pothen, Angela Brommit, Penny Slight
<b>2001-2002</b>	Michelle Lee
<b>2001</b>	Rob Galdins, Graham Ahearn, Excedra St. Louis, Megan Whitehead, Angela Bromitt, Candace Stryker
<b>2000</b>	David Ladd, Sarah Derrane, Julie Slow, Moshi Kotierk
<b>1999-2001</b>	Allyson Quinlan
<b>1999</b>	Melissa Vance, Larissa Parriag, David Ladd, Sarah Derrane
<b>1998</b>	Neil Charbonneau, Samantha Macko, Sarah Peters, Jeff Holland, Edwin Chock
<b>1997-2000</b>	Patrick Wigfull
<b>1997</b>	Allyson Quinlan, Dai Liu
<b>1996-1997</b>	Darryl Staflund
<b>1996</b>	Elizabeth Hay, Carlene Paquette
<b>1995-1996</b>	Patrick Yu
<b>1995</b>	Jeff Holland, Melanie Filotas
<b>1994-2000</b>	Colin Henein
<b>1994</b>	Ian Jonsen, Chandi Chandrasena, Gillian Porter, Andrea Smith, D'Arcy Quesnel
<b>1993-2001</b>	Shealagh Pope
<b>1993-1994</b>	Michael Richardson

**1993** Erin Neave, Jack Mah  
**1992-1995** Charles Cui  
**1992** Karen Hawley, Ron Fritz, Alfredo Rios  
**1989-1991** Nicholas Payton, Noel Cadigan, Noeleen Wadden  
**1985** Kathy Duffin