

# ALANA WESTWOOD

Mitacs Canadian Science Policy Fellow  
Natural Resources Canada

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## EDUCATION AND TRAINING

- 2018 **Mitacs Canadian Science Policy Postdoctoral Fellowship**, Department of Natural Resources, Government of Canada.
- 2016 **Dalhousie University**, Halifax, NS  
**PhD**, Biology. Supervisor: Dr. Cindy Staicer
- 2011 **University of Winnipeg**, Winnipeg, MB  
**BSc. Hons, Science & Business Valedictorian**, Applied Environmental & Forest Ethics.  
Supervisors: Dr. Jacques Tardif and Dr. Sandra Tomsons.

## RESEARCH CONTRIBUTIONS

Citations: 107

*h*-index: 4

[Full profile on ResearchGate.](#)

### Articles published in refereed journals

1. **Westwood, A.**, Olszynski, M., Fox, C.H., Ford, A., Jacob, A.L., Moore, J.W., Palen, W.J. 2019. The role of science in contemporary Canadian environmental decision-making: The example of environmental assessment. *UBC Law Review* 52(1): 243-292.
2. Cailleret, M., + 48 authors, including **Westwood, A.** (47<sup>th</sup>) 2019. Early-warning signals of individual tree mortality based on annual radial growth data. *Frontiers in Plant Science* 9: 1964.
3. Stralberg, D., Camfield, A., Carlson, M., Lauzon, C., Barker, N., **Westwood, A.**, Schmiegelow, F.K.A. 2018. Strategies for identifying priority areas for passerine conservation in Canada's boreal forest. *Avian Conservation and Ecology*, 13(2): 12.
4. Jacob, A.L., Moore, J.W., Fox, C.H., Sunter, E.J., Gauthier, D., **Westwood, A.**, Ford, A.T. 2018. Cross-sectoral input for the potential role of science in Canada's environmental assessment. *FACETS* 3: 512-529.
5. Cailleret, M., + 66 authors, including **Westwood, A.** (62<sup>nd</sup>). 2016. A synthesis of radial growth patterns preceding tree mortality. *Global Change Biology*, 23(4): 1675-1690.
6. Barker, N., Fontaine, P., Cumming, S., Stralberg, D., **Westwood, A.**, Bayne, E., Sólomos, P., Schmiegelow, F., Song, S., and Rugg, D. 2015. Ecological monitoring through harmonizing existing data: lessons from the Boreal Avian Modelling Project. *Wildlife Society Bulletin* 39(3): 1-8.
7. **Westwood, A.**, Reuchlin-Heugenholtz, E., Keith, D. 2014. Re-defining recovery: A generalized framework for assessing species recovery. *Biological Conservation* 172: 155-162.
8. **Westwood, A.**, Conciatori, F., Tardif, J., Knowles, K. 2012. Effects of *Armillaria* root rot disease on the growth of *Picea mariana* in the boreal plains of central Canada. *Forest Ecology and Management* 266: 1-10.

#### Articles in press

9. **Westwood, A.**, Otto, S.P., Mooers, A., Darimont, C., Hodges, K.E., Johnson, C., Starzomski, B.M., Burton, C., Chan, K., Festa-Bianchet, M., Fluker, S., Gulati, S., Jacob, A.L., Kraus, D., Martin, T., Palen, W.J., Reynolds, J.D., Whitton, J. Protecting biodiversity in British Columbia: Recommendations for developing endangered species legislation. FACETS: facets-2018-0042.
10. Westwood, R., Saunders, D., **Westwood, A.**, Holliday, N. Efficacy of tebufenozide in an operational spruce budworm suppression program, and effects on the assemblage of non-target moths (Lepidoptera). The Canadian Entomologist: TCE-ART-2018-119.
11. **Westwood, A.**, Staicer, C., Solymos, P., Haché, S., Fontaine, T., Bayne, E., Mazerolle, D. How many birds do national parks protect? Species distribution models for populations of two species at risk in the Canadian Maritimes. Avian Conservation and Ecology: ACE-ECO-2018-1189.

#### Articles in revision

1. **Westwood, A.**, Lambert, D., Reitsma, L., Stralberg, D. Finding common ground: Regional spatial models to support both land conservation and forest management planning for the threatened Canada Warbler (*Cardellina canadensis*). Avian Conservation and Ecology: ACE-ECO-2018-1186.

#### Articles in review

1. **Westwood, A.**, Barker, N.K.S., Amos, A., Camfield, A., Cooper, K., Dénes, F.V., Grant, S., MacDonald, C., McBlane, L., Schmiegelow, F.K.A., Simpson, J.I., Slattery, S., Sleep, D., Wells, J., Whitaker, D. Coproduction of research for conserving Canada's boreal birds while considering Indigenous and community consent: An introductory guide. Avian Conservation and Ecology: ACE-ECO-2018-1188.
2. Westwood, R., **Westwood, A.**, Hooshmandi, M., Pearson, K., LaFrance, K., Murray, C. A field-validated species distribution model to support management of the critically endangered Poweshiek skipperling (*Oarisma poweshiek*) butterfly in Canada. Conservation Science & Practice: ID19-200

#### Non-refereed journal articles

**Westwood, A.**, Walsh, K.A., Gibbs, K.E., 2017. United States: Learn from Canada's dark age of science. Nature, 542(7640): 165.

#### Technical reports and policy commentaries

1. COSEWIC, in press. COSEWIC assessment and status report on the Olive-sided Flycatcher *Contopus cooperi* in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. To be released 2019 (authored by **A. Westwood** and T. Stehelin).
2. **Westwood, A.**, Otto, S.P., Mooers, A., Darimont, C., Hodges, K.E., Johnson, C., Starzomski, B.M., Burton, C., Chan, K., Festa-Bianchet, M., Fluker, S., Gulati, S., Jacob, A.L., Kraus, D., Martin, T., Palen, W.J., Reynolds, J.D., Whitton, J. 2018. Protecting Biodiversity in British Columbia: Recommendations for an endangered species law in B.C. from a species at risk expert team. Available [here](#).
3. **Westwood, A.R.**, and Jacob, A.J. 2018. Evaluating the role of science in the proposed *Impact Assessment Act*. Available [here](#).

4. Jacob, A.J., and **Westwood, A.R.** 2018. Better rules need better science: Submission to the Standing Committee on Environment and Sustainable Development regarding the role of science in impact assessment. Available [here](#).
5. Barker, N.K.S., Bayne, E.M., Cumming, S.G., Dénes, F., Fontaine, T., Haché, S., Houle, M., Knight, E., Leston, L., Mahon, C.L., Matsuoka, S.M., Schmiegelow, F.K.A., Sólymos, P., Song, S.J., Stehelin, T., Stralberg, D., Suárez-Esteban, A., Toms, J.D., Van Wilgenburg, S., and **Westwood, A.** 2017. Annual Report - April 2016-March 2017. Boreal Avian Modelling Project, Edmonton, AB, Canada. Available [here](#).
6. **Westwood, A.**, Reitsma L., and Lambert, D. 2017. Prioritizing Areas for Canada Warbler Conservation and Management in the Atlantic Northern Forest of Canada. High Branch Conservation Services. Hartland, VT. Available [here](#).
7. **Westwood, A.**, C. Harding, L. Reitsma, and D. Lambert. 2017. Guidelines for Managing Canada Warbler Habitat in the Atlantic Northern Forest of Canada. High Branch Conservation Services. Hartland, VT. Available [here](#).
8. **Westwood, A.**, Jacob, A., + 23 coauthors. 2017. Strong foundations: Recap and recommendations from scientists regarding the federal environmental and regulatory reviews. Available [here](#).
9. Smith, T., Gibbs, K., **Westwood, A.**, Taylor, S., Walsh, K. 2017. Oversight at risk: The state of government science in British Columbia. Evidence for Democracy. Available [here](#).
10. Taylor, S., **Westwood, A.** 2017. Scientific integrity for environmental decision-making: A submission to Canada's Expert Panel for reform of the Canadian Environmental Assessment Act. Evidence for Democracy. Available [here](#).
11. Barker, N.K.S., Bayne, E.M., Cumming, S.G., Fontaine, T., Haché, Leston, L., Mahon, C.L., Matsuoka, S.M., Schmiegelow, F.K.A., Sólymos, P., Song, S.J., Stehelin, T., Stralberg, D., Suárez-Esteban, A., Toms, J.D., Van Wilgenburg, S., and **Westwood, A.** 2016. Annual Report - April 2015-March 2016. Boreal Avian Modelling Project, Edmonton, AB, Canada. Available [here](#).
12. **Westwood, A.** 2016. Response to Canada's Terms of Reference for National Energy Board Modernization expert panel. Evidence for Democracy. Available [here](#).
13. **Westwood, A.** 2016. Response to Canada's Terms of Reference for Canadian Environmental Assessment Act expert panel. Available [here](#).
14. **Westwood, A.** 2016. Response to Canada's proposals for revitalizing access to information. Evidence for Democracy. Available [here](#).
15. **Westwood, A.** 2016. Moving from open data to open science - A response to Canada's Open Government Draft Plan. Evidence for Democracy. Available [here](#).
16. Peltier, W.R., Stone, J., Takaro, T., **Westwood, A.** 2015. On the role of Canada's scientists in transitioning to a low-carbon future. In *Acting On Climate Change: Extending the Dialogue Among Canadians*. Sustainable Canada Dialogues. Available [here](#).
17. **Westwood, A.**, Sólymos, P., Fontaine, T., Bayne, E. 2015. Estimating population density of the Rusty Blackbird (*Euphagus carolinus*), Olive-Sided Flycatcher (*Contopus cooperi*), and Canada Warbler (*Cardellina canadensis*) in national parks in New Brunswick and Nova Scotia. Boreal Avian Modeling Project, University of Alberta, and Dalhousie University. Prepared for Parks Canada.
18. **Westwood, A.** 2012. Habitat Suitability Index (HSI) Models In Kejimikujik and Fundy National Parks: Canada Warbler, Olive-Sided Flycatcher, Rusty Blackbird, and Eastern Wood-Pewee. Dalhousie University. Report prepared for Parks Canada.

19. Bigland-Pritchard, M., Rooney, K., **Westwood, A.** 2012. Commitment Issues: Tar sands extraction invalidates Canada's obligations to the UNFCCC and undermines global climate change negotiations. Canadian Youth Delegation & Low Energy Design Ltd.

### **LECTURES AND CONFERENCE CONTRIBUTIONS**

Refereed academic conference contributions (*Presenter(s) indicated by \*. Oral presentation unless stated otherwise*)

1. Westwood, R.\*, **Westwood A.**, Hooshmandi, M., Pearson, K., LaFrance, K., and Murray, C. 2018. Powesheik Skipperling species distribution modelling project: Summary 2016-2018. International Powesheik Workshop, 2/14 Detroit, USA (international).
2. Dénes, F.\*, Barker, N., Cro, Psby, A., Haché, S., Solymos, P., Stralberg, D., **Westwood, A.**, St-Laurent, K., Bayne, E., Cumming, S., Song, S., Schmiegelow, F. 2018. Identification of critical habitat for wide-ranging migratory birds: a conceptual model toward achieving self-sustaining populations. North American Congress for Conservation Biology 7/21-26, Toronto, Canada (international).
3. **Westwood, A.**, Lambert, D., Reitsma, L.\* 2017. Bridging the research-management divide: A collaborative spatial approach for species-at-risk conservation using the Canada Warbler. Poster at AOS-SCO Meeting 7/31-8/5 East Lansing, USA (national).
4. Harper, K.\*, Staicer, C., Gray, L, **Westwood, A.** 2017. Biodiversity and ecosystem functioning of forested wetlands across Atlantic Canada. Poster at Atlantic Canada Peatlands and Wetlands Symposium, 6/6-7 Shippigan, Canada (regional).
5. Stacier, C.\*, **Westwood, A.**, Ferarri, C., and Crosby, B. 2016. [Breeding habitat and vocal behavior of Rusty Blackbirds in Nova Scotia](#). International Rusty Blackbird Working Group Workshop, North American Ornithological Congress, 8/16-20 Washington, USA (international).
6. **Westwood, A.\***, Solymos, P., Fontaine, T., Mazerolle, D., Bayne, E., and Staicer, C. 2016. [Predicting population size and density of species at risk in national park](#). Poster at CAG-ACG Annual Meeting 2016), 5/30-6/4 Halifax, Canada (regional).
7. Bale, S.\*, Beazley, K., Bush, P., **Westwood, A.**, Ferrari, C. 2015. Maximizing the utility of Maxent: Exploring the influence of selection modality, feature types, and bias mask in model building. Poster at International Congress of Conservation Biology, 8/2-6 Montpellier, France (international).
8. Bale, S.\*, Beazley, K., Bush, P., **Westwood, A.**, Ferrari, C. 2015. Applying principles of ecological resilience theory to model bird habitat in a context of climate change. Poster at International Symposium on Digital Earth, 10/ 5-9 Halifax, Canada (international).
9. **Westwood, A.\***, Solymos, P., Fontaine, T., and Bayne, E. 2015. Species distribution modeling for three landbird species at risk: The contribution of protected areas to habitat and the effects of scale on population estimates. WOS/AFO/SCO-SOC 2015 Joint Meeting, 7/16-18 Wolfville, Canada (international).
10. Haché, S.\*, **Westwood, A.\*** 2015. Boreal Avian Modelling Project: Advances and applications from national to local initiatives. Canada Warbler International Conservation Initiative Breeding Grounds Summit, 3/10-12, Ottawa, Canada (international).

11. Ferrari, C.\*, **Westwood, A.**, Randall, J., Darlington-Moore, S., Kindree, M., Staicer, C. 2014. Species distribution models for six species of landbirds at risk in southwestern Nova Scotia. Mersey-Tobeatic Research Institute 3<sup>rd</sup> Annual Science Meeting, 11/7 Lunenburg, Canada (regional).
12. **Westwood, A.\***, Staicer, C. 2014. Habitat associations of the Rusty Blackbird in Nova Scotia, and opportunities for conservation within a multi-species suite. AOU/COS/SCO Joint Meeting, 9/23-28 Estes Park, USA (international).
13. **Westwood, A.\***, Randall, J., Achenbach, L., Lavallee, A., Pray-Leslie, A., Cormier, D., Staicer, C. 2014. Field surveys for three landbird species at risk and their wet forest habitat in southwestern Nova Scotia. Poster at the Elizabeth May Sustainability and Environmental Research Symposium, 5/7 Halifax, Canada (institutional).
14. **Westwood, A.\***, Randall, J., Achenbach, L., Lavallee, A., Pray-Leslie, A., Cormier, D., Staicer, C. 2013. Field surveys for three landbird species at risk and their wet forest habitat in southwestern Nova Scotia. Poster at the Mersey-Tobeatic Research Institute Science Conference, 11/1 Bridgewater, Canada (regional).
15. **Westwood, A.\***, Staicer, C. 2013. A preliminary assessment of Rusty Blackbird, Olive-Sided Flycatcher, and Canada Warbler habitat in the Southwest Nova Biosphere Reserve. Society of Canadian Ornithologists Meeting, 8/12-14 Winnipeg, Canada (national).
16. **Westwood, A.\***, Staicer, C. 2012. A comparison of Rusty Blackbird habitat on managed and protected lands in the Southwest Nova Biosphere Reserve. Mersey-Tobeatic Research Institute Conference, 11/1-2, Caledonia, Canada (regional).
17. **Westwood, A.\***, Staicer, C. 2012. A comparison of Rusty Blackbird habitat on managed and protected lands in the Southwest Nova Biosphere Reserve. International Rusty Blackbird Working Group Meeting, hosted at the Northeast Bird Conservation Conference, 10/16-18, Plymouth, USA (international).
18. **Westwood, A.\***, Staicer, C., Bush, P. 2012. Preliminary habitat suitability models for three forest-dwelling bird species at risk in the Southwest Nova Biosphere Reserve. Poster presented at Geomatics Atlantic, 6/12-14 Halifax, Canada (regional).
19. **Westwood, A.\***, Staicer, C. 2012. A preliminary habitat suitability (HSI) model for the Rusty Blackbird (*Euphagus carolinus*) in Kejimikujik National Park Sustainability and Environmental Research Symposium, 3/9 Halifax, Canada (regional).
20. **Westwood, A.**, Conciatori, F., Tardif, J.\*, Knowles, K. 2011. Effects of *Armillaria* root rot disease on the growth of *Picea mariana* in the boreal plains of central Canada. Poster presented at Eurodendro 2011, 9/19-23 Engelberg, Switzerland (international).
21. **Westwood, A.\***, Conciatori, F., Tardif, J., Knowles, K. 2011. Effects of *Armillaria* root rot disease on the growth of *Picea mariana* in the boreal plains of central Canada. Poster presented at Deadwood 2011: International symposium on dynamics and ecological services of deadwood in forest ecosystems, 5/15-19 Rouyn-Nouranda, Canada (international).
22. **Westwood, A.\*** 2010. The effects of *Armillaria* root disease on the growth of black spruce (*Picea mariana*) in western Manitoba. Prairie Universities Biological Symposium, 2/18-20 Brandon, Canada (regional).

### Invited presentations and workshops

1. Westwood, R.\*, **Westwood, A.R.\***, Hooshmandi, M., LaFrance, K., Murray, C. 2019. The importance of accuracy when management is urgent: A field-validated species distribution model for the critically endangered Poweshiek skipperling in Canada. Invited webinar, USFWS Poweshiek Skipperling Science Series, 02/12 (international).
2. **Westwood, A.** 2017. A once-in-a-generation opportunity: Science and the reform of Canada's environment-related laws. Invited speaker, Biodiversity Discussion Group, University of British Columbia, 11/23 Vancouver, Canada (institutional).
3. **Westwood, A.** 2017. A once-in-a-generation opportunity: Science and the reform of Canada's environment-related laws. Invited speaker, Department of Biology, Simon Fraser University, 11/29 Burnaby, Canada (institutional).
4. **Westwood, A.** 2016. Standing up for science: A crash course in science advocacy. Workshop at Biological Sciences, University of Winnipeg, 3/22 Winnipeg, Canada (institutional).
5. **Westwood, A.** 2016. Standing up for science: A crash course in science advocacy. Workshop at Ecology @UVic Seminar, University of Victoria, 9/28 Victoria, Canada (institutional).
6. **Westwood, A.** 2016. Standing up for science: A crash course in science advocacy. Workshop at Cell and Physiological Sciences Graduate Society Seminar, University of British Columbia, 10/27 Vancouver, Canada (institutional).
7. **Westwood, A.** 2013. Federal cuts to scientific funding: consequences for the researchers of tomorrow. Invited speaker at Stand Up For Science gathering (other speakers including Elizabeth May, Megan Leslie, and Dr. Thomas Duck), 9/16 Halifax, Canada (regional).
8. **Westwood, A.** 2013. Standing up for science: A crash course in science advocacy. Invited speaker at Ruminations Speaker Series, Dalhousie Agricultural College, 11/12 Truro, Canada (institutional).
9. **Westwood, A.** 2013. Standing up for science: A crash course in science advocacy. Workshop at Department of Environmental Studies, University of Winnipeg (institutional), 5/21 Winnipeg, Canada.
10. **Westwood, A.** 2013. Standing up for science: A crash course in science advocacy. Workshop at Parkland Institute, University of Alberta, 5/7 Edmonton, Canada (institutional).
11. **Westwood, A.** 2012. Bog sweet bog: Habitat associations of bird species at risk in Nova Scotia's treed wetlands. Invited speaker at Mersey-Tobeatic Research Institute Speaker Series, 7/12 Kempt, Canada (regional).
12. **Westwood, A.** 2010. Ecosystems under threat in Manitoba: Determining obligations to our forests. Invited speaker at University of Winnipeg Philosophy Students' Association Speaker Series, 12/1 Winnipeg, Canada (institutional).

### **PUBLIC CONTRIBUTIONS**

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#### Articles

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| 2018 | Policy Options   |
| 2017 | The Scientist • Le Devoir                                |
| 2016 | Bird Watcher's Digest (cover article) • The Toronto Star |

- 2015 Humanist Perspectives (cover article) • The Toronto Star • The Hill Times • The Chronicle Herald • LoveNature • Picoides
- 2014 The Toronto Star • Canadian Journalists for Free Expression • The Coast • Alternatives Journal
- 2013 Alternatives Journal
- 2012 Rabble • The Chronicle Herald • Alternatives Journal • Youth Policy

**Guest lectures**

- 2017 Halifax Plant Ladies Naturalist Society  
Seacology by Kayak  
ENVS3200 Introduction to Environmental Law, Dalhousie University  
Samara Canada EPC-IRL Conference  
First Year Interest Group Panel on Science Communication, Dalhousie University
- 2016 Evidence for Democracy's 3-part Network of Experts Comms for Scientists webinar series  
Boreal Avian Modelling Project  
Nature Conservancy of Canada
- 2015 Center for Inquiry Halifax  
Environmental Programs Student Society, Dalhousie University  
Boreal Avian Modelling Project/Environment Canada/Parks Canada
- 2014 New Brunswick Eastern Habitat Joint Venture/Department of Natural Resources  
Nova Scotia Community College
- 2012 Conference of Parties to the UNFCCC 18 International Forum on Globalization  
International Conference of Youth 8  
Powershift 2012

**Press**

Covered by dozens of regional, national, and international TV, radio, and print news outlets, with frequent interviews. Featured in the CBC TV documentary Birds at Risk.



## RESEARCH GRANTS AND CONTRACTS

### Peer-reviewed, competitive external grants

Investigators	Title	Funding Source	Year(s)	Total Amount
Westwood, A. (co-PI) and Walsh, K (co-PI). on behalf of Evidence for Democracy	Provincial science integrity in British Columbia	West Coast Environmental Law	2016	\$2 500
Staicer, C. (PI), and Westwood, A (collaborator).	Conserving landbird species at risk in the Atlantic Coastal Plain of NS	Nova Scotia Habitat Stewardship Program	2012-2014	\$10 000

### Internal grants and other non-competitive funding

Investigators	Title	Funding Source	Year(s)	Total Amount
Westwood, A. (co-PI) and Walsh, K. (co-PI), on behalf of Evidence for Democracy	Provincial science integrity in British Columbia	Professional Employees Association of B.C.	2016	\$25 000
Bayne, E. (PI), and Westwood, A. (collaborator)	Species distribution models of the Rusty Blackbird ( <i>Euphagus carolinus</i> ), Olive-Sided Flycatcher ( <i>Contopus cooperi</i> ), and Canada Warbler ( <i>Cardellina canadensis</i> ) at the national and regional (Maritime) level, and an assessment of habitat availability in Maritime National Parks	Parks Canada	2014	\$7 500
Westwood, A. (PI)	Habitat suitability index (HSI) models for the Rusty Blackbird ( <i>Euphagus carolinus</i> ), Olive-Sided Flycatcher ( <i>Contopus cooperi</i> ), and Canada Warbler ( <i>Cardellina canadensis</i> ) in Kejimikujik NP	Parks Canada	2012	\$5 000

### Contracts/consultancies

Contract Awarded To	Title	Funding Source	Competitive	Year(s)	Total Amount
Westwood, A., and Pearson, K.	Species distribution model for the Powesheik Skipperling in Manitoba	University of Winnipeg	No	2017	\$7 500
Westwood, A.	Habitat management guidelines and spatial mapping for the Canada Warbler in BCR14	High Branch Conservation Services Ltd.	No	2015	\$10 000 (USD)
Westwood, A., and Stehelin, T.	COSEWIC status report for the Olive-sided Flycatcher ( <i>Contopus cooperi</i> )	Environment Canada – Canadian Wildlife Service	Yes	2015	\$6 800



## **AWARDS AND PRIZES**

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- 2017 Samara Canada Everyday Political Citizen IRL Conference Travel Award (up to \$1000)
- 2016 SpringTide Co-Resolve Deep Democracy Training Attendance Scholarship (\$350)  
Nominee for Samara Canada's Everyday Political Citizen award
- 2015 ESRI Canada Student Award (\$1500)
- 2014 Elizabeth May Sustainability and Environmental Research Symposium, best graduate research poster (\$150)  
President's Graduate Teaching Assistant Award (\$500)  
Dalhousie Office of Sustainability Brightest Idea Competition (with Takafumi Osawa, \$150)  
Sisam Forestry Award (\$1000)  
Society of Canadian Ornithologists, Travel Award (\$490)
- 2013 Society of Canadian Ornithologists Annual Meeting, 2<sup>nd</sup> in student presentation competition
- 2012 Mersey-Tobeatic Research Institute Annual Science Conference, travel award (\$100)  
Northeastern Bird Conservation Conference Planning Committee, travel award (\$250)  
Elizabeth May Sustainability and Environmental Research Symposium, 1<sup>st</sup> in graduate research poster (\$500)
- 2011 American Ornithologists Union, student membership award
- 2010 University of Winnipeg, Gold Medal for Excellence (student-designed major)
- 2008 Datatel, Scholars Award (\$1 500)

## **SCHOLARSHIPS AND FELLOWSHIPS**

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- 2018 MITACS Canadian Science Policy Fellowship postdoctoral award (\$77 000)  
National Science and Engineering Research Council (NSERC) Postdoctoral Scholarship (\$90 000/2y, declined)
- 2012 NSERC Postgraduate Scholarship (PGS-D, 3 years, \$66 000/3y), Dalhousie University, President's Award (\$15 000/3y)
- 2011 NSERC, Alexander Graham Bell Canada Graduate Scholarship (CGS-M, \$14 500)
- 2010 NSERC, Undergraduate Student Research Award (\$4 500)  
Catherine Sosiak Memorial Scholarship (\$300, declined)  
Academic Proficiency Scholarship (\$750)
- 2009 NSERC, Undergraduate Student Research Award (\$4 500)  
Manitoba Round Table for Sustainable Development, undergraduate scholarship (\$2 500)  
University of Winnipeg, Academic Proficiency Scholarship (\$750)
- 2006 University of Winnipeg, Academic Proficiency Scholarship (\$1500/2y)  
Alumni Entrance Scholarship (\$5 000)  
Alfred Longman Entrance Scholarship (\$500)

## **TEACHING EXPERIENCE**

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### University of Winnipeg

- 2018 BIOL4451 Forest Ecosystems Field Course, *Instructor*

**Dalhousie University**

- 2014-2017 BIOL2601 Flora of Nova Scotia, *Instructor*
- 2012-2014 Writing Centre, *Tutor*
- 2011-2013 BIOL3633 Spatial Information and GIS in Ecology, *Teaching Assistant*
- 2011-2013 PHIL2050 Ethics in Science, *Teaching Assistant*
- 2011-2013 SCIE1515 Integrated Science Writing, *Teaching Assistant*

**University of Winnipeg**

- 2010 ENV2603 Environmental Sustainability, *Teaching Assistant*
- 2007-2010 *Lab demonstrator/marker* for ENV1600 Human-Environmental Interactions, BIOL2301 Biology of Vascular Plants, GEOG2213 Introductory Soil Science, GEOG1201 Introductory Atmospheric Science, BIOL1115 Cells and Cellular Processes, BIOL1116 Evolution, Ecology, and Biodiversity

**STUDENT SUPERVISION**

**Undergraduate Special Topics Courses/Independent Study**

- 2015 Thompson, Hilary. ENV53801 Directed Readings, Dalhousie University. Topic: Assessing error in digital data using field-collected measures forested wetland sites in Nova Scotia
- 2014 Johnson, Courtney (co-supervised by Dr. Cindy Staicer). BIOL/MARI4806 Special Topics, Dalhousie University. Topic: Using GIS data to predict wet forest habitats in Nova Scotia.
- 2014 Vietinghoff, Christina (co-supervised by Dr. Roger Jacobs). ARTSCI3X03 Directed Readings, McMaster University. Topic: Media analysis of language relating to ‘evidence and science-based decision-making’ in federal government rhetoric.

**Undergraduate Community Service Learning Placement**

- 2017 Arielle Dufresne, Stefanie El-Beyroui, and Leah Afework. University of Ottawa
- 2016 Alexander Satenstein and Sofiya Kominksi. University of Ottawa
- 2015 Taylor Ducharme, Elias Rizek, Matthew Bunn, Kelly Lepchuk, Sasha Masabanda, Dexter Tang, and Andréanne Roy. University of Ottawa

**EMPLOYMENT HISTORY**

- 2018-current **Environmental Assessment Officer**, Natural Resources Canada, Ottawa, ON. Produced policy briefs, memos, and syntheses for decision-makers on topics related to environmental assessment, Indigenous knowledge, cumulative effects, and scientific integrity. Co-developed policy framework for implementing new environmental assessment legislation in the department.
- 2017-2018 **Science & Policy Analyst**, Yellowstone to Yukon Conservation Initiative, Canmore, AB. Coordinated leading scientific experts to respond to proposed changes to environmental assessment and species at risk laws. Produced reports, peer-reviewed papers, and communications products, including media briefings and direct meetings with high-level public servants and political party staffers.



	Regional Coordinator, PowerShift 2012 conference
2007-2008	Representative and volunteer, SUNSET (Sustainable University Now, Sustainable Earth Together)
	Coach, varsity badminton (University of Winnipeg Collegiate) and junior high basketball (Dakota Community Centre, Linden Meadows School)
2003-2006	Prime Minister, University of Winnipeg Collegiate student council (2006)
	Co-founder and organizer, University of Winnipeg Collegiate social justice committee/recycling program

## **CERTIFICATIONS**

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2018	TREC Management Skills Training
2017	CoResolve facilitation and conflict resolution training • CPR C and Standard First Aid
2009	Canoe Tripping Level 1
2007	Bronze Cross Re-Certification • Wilderness First Aid/CPR
2006	Flatwater C Canoeing

## **OTHER SKILLS**

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<b>Languages</b>	English/French functionally bilingual, Cantonese beginner, Hebrew beginner
<b>Writing</b>	Published fiction and creative non-fiction in a number of magazines and anthologies
<b>Athletics</b>	Former 4-time Manitoba champion (badminton), Canada Games Badminton Team co-captain, 4-time national quarterfinalist in doubles (badminton), Member of Manitoba Collegiate Athletic Association league-winning team University of Winnipeg College Wesmen (basketball), Manitoba A/AA/AAA All-Star (basketball)
<b>Adventure</b>	Former leader of 5-15 day canoe trips for children aged 10-16 in remote areas, hiked the 1200 km Shikoku Henro pilgrimage in Japan, long-distance backpacker, canoe tripper, rock climber, and eco-endurance race runner