

## Carly D. Ziter

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### RESEARCH INTERESTS

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Landscape ecology; urban ecology; ecosystem services; biodiversity science; forest ecology; ecological/green infrastructure; land-use legacies; sustainability

### EDUCATION

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- 2014-2018     **PhD** University of Wisconsin-Madison, Department of Integrative Biology  
Advisor: Dr. Monica Turner
- 2011-2013     **MSc** McGill University, Departments of Biology, Natural Resource Sciences  
Advisors: Dr. Andrew Gonzalez and Dr. Elena Bennett
- 2007-2011     **BSc** University of Guelph, Environmental Biology (minor Statistics)  
Advisor: Dr. Andrew MacDougall

### EMPLOYMENT AND ACADEMIC HISTORY

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- 2018 (Dec) –     Assistant Professor, Concordia University, Biology Department;  
Cluster for Smart, Sustainable, and Resilient Cities and Communities
- 2019-2022     Adjunct Assistant Professor, Biology Department, University of Waterloo
- 2018             Visiting Researcher, Biology Department, Memorial University
- 2014             Ecosystem Service Analyst, Environment and Climate Change Canada,  
Science and Technology Branch, Ottawa ON
- 2013             Research Technician, McGill University, Montreal QC

### AWARDS AND HONOURS *\*funding in CAD unless otherwise noted*

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- 2021             Concordia University Research Chair in Urban Ecology and Sustainability
- 2021             Newsmaker of the Month, Concordia (*Institutional*)
- 2020             Research Communicator of the Year – National, Concordia (*Institutional*)
- 2020             Sustainability Champion Award (team member), Concordia (*Institutional*)
- 2019             Newsmaker of the Week, Concordia (*Institutional*)
- 2018             PhD Diversity and Excellence in Doctoral Research Award, Canadian  
Society for Ecology and Evolution (*National, \$500*)
- 2017             PEO Ventura Neale Trust Endowed Scholar Award. Competitive fellowship  
for women doctoral/medical students. Selected among 800 nominees as  
one of 11 Endowed Scholars (*International: Canada/USA, \$15,000 USD*)
- 2017             Best Student Presentation Award, IALE-NA (*\$150 USD*)
- 2017             Best Student Presentation Award, Wisconsin Ecology (*\$500 USD*)
- 2016             Garden Club of America Urban Forestry Fellowship (*National, \$5000 USD*)
- 2015             Phi Kappa Phi National Honor Society (*National*)
- 2014             DIVERSITAS Youth Reporter (*International*)

- 2013 Hon. Mention Union of Concerned Scientists Ecoservice Award (*National*)  
2011 Environmental Sciences Academic Prize, University of Guelph  
(*Institutional, \$1000*)  
2011 Beth Duncan Gold Medal, awarded for university extracurricular activities,  
University of Guelph (*Institutional*)  
2011 Best Student Talk, Ontario Biology Day (*Provincial, \$200*)  
2010 Best Undergraduate Thesis Proposal in Integrative Biology, University of  
Guelph (*Institutional, \$300*)

## ACADEMIC PUBLICATIONS

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### Peer Reviewed Journal Articles ([Google Scholar](#): 850 citations, H-Index 13)

† indicates a student advisee

#### *In Review/Revision*

†Hutt-Taylor K, **Ziter CD**. Private trees contribute uniquely to urban forest diversity and structure: a community-based study of the urban forest. *Urban Forestry and Urban Greening* (Submitted 2021-09-08)

Santangelo et al (over 250 authors including **Ziter**). Parallel environmental and evolutionary change in response to urbanization on a global scale. *In Review*

#### *Published/In Press*

17. Buxton RT, Bennett JR, Reid AJ, Shulman CM, Cooke SJ, Francis CM, Nyboer EA, Pritchard G, Binley A, Avery-Gomm S, Ban NC, Beazley KF, Bennett E, Blight LK, Bortolotti LE, Camfield AF, Gadallah Z, Jacob AL, Naujokaitis-Lewis I, Raudsepp-Hearne C, Roche DG, Soulard F, Stralberg D, Sadler KD, Solarik KA, **Ziter CD**, Brandt J, McKindsey CW, Greenwood DA, Boxall PC, Ngolah C, Chan KMA, Lapen D, Poser S, Girard J, DiBacco C, Hayne S, Orihel D, Lewis D, Littlechild D, Marshall S, McDermott L, Whitlow R, Browne D, Sunday J, Smith PA. 2021. Key information needs to move from knowledge to action for biodiversity conservation in Canada. *Biological Conservation* (*In Press*)
16. **Ziter CD**, Herrick B, Johnson M, Turner MG. 2021. Ready, set, go: Community science field campaign reveals habitat preferences of nonnative Asian earthworms in an urban landscape. *BioScience* (*In Press*)
15. Shannon T, †Ahler S, †Mathers M, **Ziter CD**, Dugan H. 2020. Road salt impact on soil electrical conductivity across an urban landscape. *Journal of Urban Ecology* 6: juaa006
14. McDonald R, Mansur A, Ascensao F, Colbert M, Crossman K, Elmqvist T, Gonzalez A, Guneralp B, Haase D, Hamann M, Hillel O, Huang K, Kahnt B, Maddox D, Pacheco A, Pereira H, Seto K, Simkin R, Walsh B, Werner A, **Ziter CD**. 2020. Research gaps in knowledge of the impact of urban growth on biodiversity. *Nature Sustainability* 3: 16-24

13. **Ziter CD**, Pedersen EJ, Kucharik CJ, Turner MG. 2019. Scale-dependent interactions between tree canopy cover and impervious surfaces reduce daytime urban heat during summer. *PNAS* 116: 7575-7580
12. Dyson K, **Ziter C**, Patterson MS, Fuentes TL. 2019. Conducting urban ecology research on private property: advice for new urban ecologists. *Journal of Urban Ecology* 5: juz001  
*\* Peer J Preprint was a "Top 5 Most Viewed Article" in its subject area in 2018*
11. **Ziter C**, Turner MG. 2018. No evidence of co-facilitation between a non-native Asian earthworm (*Amyntas tokioensis*) and invasive common buckthorn (*Rhamnus cathartica*) in experimental mesocosms. *Biological Invasions* 21: 111-122
10. **Ziter C**, Turner MG. 2018. Current and historical land use influence soil-based ecosystem services in an urban landscape. *Ecological Applications* 28: 643-654
9. **Ziter C**, Graves RA, Turner MG. 2017. How do land-use legacies affect ecosystem services in United States cultural landscapes? *Landscape Ecology* 32: 2205-2218
8. Rose KC, Graves RA, Hansen WD, Harvey BJ, Qiu J, Wood SA, **Ziter C**, Turner MG. 2017. Historical foundations and future directions in macrosystems ecology. *Ecology Letters* 20: 147-157
7. **Ziter C** 2016. The biodiversity-ecosystem service relationship in urban areas: A quantitative review. *Oikos* 125: 761-768  
*\* Editor's Choice, June 2016*
6. Mitchell MGE, Bennett EM, Gonzalez A, Lechowicz M, Rhemtulla J, Cardille J, Vanderheyden K, Poirier-Ghys G, Renard D, Delmotte S, Albert C, Rayfield B, Dumitru M, Huang HH, Larouche M, Liss K, Maguire D, Martins K, Terrado M, **Ziter C**, Taliana L, Dancose K. 2015. Montérégie Connection: linking landscapes, biodiversity, and ecosystem services to improve decision making. *Ecology & Society* 20(4):15
5. **Ziter C**, Bennett E, Gonzalez A. 2014. Temperate forest fragments maintain aboveground carbon stocks out to the forest edge despite changes in community composition. *Oecologia* 176: 893-902
4. **Ziter C**, Bennett E, Gonzalez A. 2013. Functional diversity and management mediate aboveground carbon stocks in small forest fragments. *Ecosphere* 4: art85.
3. Liss K, Mitchell MGE, MacDonald GK, Mahajan S, Méthot J, Jacob AL, Maguire D, Metson G, **Ziter C**, Dancose K, Martins K, Terrado Casanovas M, Bennett EM. 2013. Variability in ecosystem service measurement: a case study of pollination service studies. *Frontiers in Ecology and the Environment* 11:414-422
2. **Ziter C**, MacDougall AS. 2013. Nutrients and defoliation increase soil carbon inputs in grassland. *Ecology* 94:106-116
1. **Ziter C**, Robinson EA, Newman JA. 2012. Climate change and voltinism in California insect pest species: sensitivity to location, scenario and climate model choice. *Global Change Biology* 18:2771-2780

## Other Publications

### *Non-Peer Reviewed Articles*

**Ziter C**, Pedersen EJ, Kucharik CJ, Turner MG. 2019. Reply to Drescher: Interdisciplinary collaboration is essential to understand and implement climate-resilient strategies in cities. PNAS

**Ziter C**, Mitchell M, Bardekjian A, Conway T, Danyluk A, Molnar M, Pachcinski M, Podur J, Schaefer V, Clark J, Murphy S. 2018. Connect Urban Planners and Urban Ecologists to Create Sustainable Canadian Cities. *The Nature of Cities*.

### *Book Chapters*

Miller J, **Ziter C**, Koontz M. Fieldwork in Landscape Ecology. In: Perry G, Minor E, Francis R, Millington J (eds) *Handbook of Landscape Ecology*. Routledge, Taylor and Francis Group (*Accepted*)

Bennett EM, Albert C, Ball A, Cardille J, Dancose K, Delmotte S, Gonzalez A, Hsin HH, Lechowicz M, Liss K, Kipp R, Maguire D, Mahajan S, Mitchell M, Teixeira-Martins K, Raudsepp-Hearne C, Renard D, Rhemtulla J, Taliana L, Terrado M, **Ziter C**. 2019. The Montérégie Connection: Understanding How Ecosystems Can Provide Resilience to the Risk of Ecosystem Service Change. In: Schröter M, Bonn A, Klotz S, Seppelt R, Baessler C (eds) *Atlas of Ecosystem Services*. Springer, Cham

### *Reports*

McDonald R, Colbert M, Hamann M, Simkin R, Walsh B. (*Coordinating Lead Authors*), Ascensão F, Barton M, Crossman K, Edgecomb M, Elmqvist T, Gonzalez A, Guneralp B, Haase D, Hillel O, Huang K, Maddox D, Mansur A, Paque J, Pereira H, Pierce J, Weller R, Seto K, Tan M, **Ziter C** (*Lead Authors*). 2018. *Nature in the Urban Century: A global assessment of important areas for safeguarding biodiversity and human well-being*. The Nature Conservancy.

Doyle M, Malouin C, Liss K, **Ziter C**. 2014. *Toward an Ecosystem Potential Index for Canada (EPIC): A Boreal Case Study*. Environment and Climate Change Canada.

## **GRANTS AND FELLOWSHIPS** *\*funding in CAD unless otherwise noted*

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*I have been the recipient of grant and fellowship funding worth over \$2.8 million as a Lead PI, Co-PI, or Co-Applicant (with ~750K specifically to my program), including multiple interdisciplinary team grants for research spanning the fields of ecology, fine arts, engineering, and public health*

### **Research Grants (as PI/Co-PI/Co-Applicant)**

2021-2026 Concordia University Research Chair in Urban Ecology and Sustainability (Sole PI, \$100,000)

2021-2025 NSERC CREATE "DesignLIFES: Design of Living Infrastructure for Ecosystem Services" (Co-applicant, Jenn Drake is Lead PI, \$1,650,000)

- 2021-2024 SSHRC Partnership Development Grant “Urban-nature partnership to study the social impacts of tree loss” (Co-PI, Tenley Conway is Lead PI, \$191,707)
- 2021-2023 New Frontiers in Research Fund – Exploration “Do urban trees affect human respiratory health and autoimmune diseases through microbiomes, air contaminants, and allergens?” (Co-App, Isabelle Laforest-Lapointe is Lead PI, \$250,000)
- 2020-2025 Trottier Family Foundation, “Help Cities Offset the Effects of Heat Islands” (Co-PI, Ursula Eicker is Lead PI, \$100,000)
- 2019-2024 NSERC Discovery Grant “Biodiversity-Ecosystem Service Relationships in Spatially Heterogeneous, Dynamic Urban Landscapes” (Sole PI, \$140,000 plus \$12,500 Discovery Launch Supplement)
- 2020-2021 Concordia Early Career Research Support Opportunity, “NDG Community Tree Project” (Sole PI, \$6500)
- 2020-2021 SSHRC Partnership Engagement Grant “Déconstruction du Pont Champlain : co-création de propositions de récupération des matériaux et engagement citoyen” (Co-PI, Alice Jarry is Lead PI, \$24,711)
- 2019-2020 Concordia Cities Project Fund “Designing Pollinator Friendly Cities” (Lead PI, \$2000)
- 2019-2020 Concordia Cities Project Fund “Engagement durable et cycle de vie des matériaux : le bien-être des communautés et la récupération d’une infrastructure routière” (Co-PI, Alice Jarry is Lead PI, \$10,000)
- 2016-2017 National Geographic Early Career Grant, “Impacts of multiple invasive species on ecosystem service provision in an urbanizing agricultural watershed” (Lead PI, \$4116 USD)
- 2014-2015 McGill Sustainable Projects Fund “Linking Action and Research on Sustainability” (Co-PI with Elena Bennett, Catherine Potvin; \$39,580)
- 2014 Canadian Society for Ecology and Evolution Symposium Award (Co-PI, \$1000)

### **Funded Research Grants (as Collaborator)**

- 2020-2026 NSERC CREATE “Science Leadership for Global Sustainability” (Lead PI Damon Matthews, Ziter is collaborator)
- 2020-2026 NSERC CREATE “Training the future leaders in urban forestry (Ufor)” (Lead PI Christian Messier, Ziter is collaborator)
- 2019-2022 NERC “FUSED – Functionality of Urban Soils supporting Ecosystem service Delivery” (Lead PI Alex Dumbrell, Ziter is collaborator/visiting researcher)

### **Scholarships, Travel Grants, Pedagogy, Other Funding**

- 2021 WWF Go Wild School Grant (Co-PI with Cassandra Lamontagne, \$1000)
- 2020 Course Design Support, Teaching and Learning Working Group, Concordia (\$2000)
- 2020 ECO Canada student internship funding (x3) (\$11,000)
- 2017/19 Phi Kappa Phi Honour Society Love of Learning Award (x2) (\$1000 USD)
- 2016-2018 Travel Awards (x4), UW-Madison Integrative Biology Dept (\$2850 USD)
- 2017 Travel Award Canadian Society for Ecology and Evolution (\$500)

2017	Travel Award US-International Association of Landscape Ecology (\$500 USD)
2014-2017	NSERC Canada Graduate Scholarship – PhD (\$105,000) * <i>declined to attend US institution, accepted NSERC PGS-D (\$63,000)</i>
2015	Incoming Graduate Research Fellowship, UW-Madison (\$20,000 USD)
2013	McGill International Research Award (\$2000 CAD)
2012	Quebec Center for Biodiversity Science Excellence Award (\$2195)
2011-2012	NSERC Canada Graduate Scholarship – MSc (\$17,500)
2011	Graduate Excellence Fellowship, McGill University (\$4228)
2011	Graduate Admission Award, McGill Biology Department (\$2500)
2007-2011	Board of Governors Scholarship, University of Guelph (\$8000)
2009/10	OAC Dean’s Scholarship, University of Guelph (x2) (\$2000)
2010	Arthur Latornell Travel Award, University of Guelph (\$1000)
2010	OAC’54 International Study Award, University of Guelph (\$1450)
2009	NSERC Undergraduate Student Research Award (\$4500)
2007	University of Guelph Entrance Scholarship (\$3000)

**WORKING GROUP PARTICIPATION AND SYMPOSIA ORGANIZATION**

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2021-now	Invited Working Group Participant, Equitable cities for healthy people and nature, Carleton University
2021-now	Invited Working Group Participant, The future of indicators for assessing landscape sustainability, McGill University
2021-now	Invited Collaborator, ParkSeek: A national interdisciplinary collaboration on geographic accessibility to, and quality of experiences in, parks and recreational facilities across Canada (Public Health Agency of Canada)
2020-now	Core Team member, NSF-RCN horizon-scan on Urban Eco-Evolutionary Dynamics
2021	Invited Workshop Participant, Atelier sur les îlots de chaleur du comité d’experts en adaptation, City of Montreal
2021	Symposium Organizer “Building Community [Citizen] Science in Canada: Successes, Lessons Learned, Next Steps”, Canadian Society for Ecology and Evolution (Virtual, Vancouver BC)
2020-21	Invited Working Group Participant, Identifying Canada’s information needs to meet biodiversity conservation targets, Ottawa, ON
2020	Invited Workshop Participant, Relational Future Visioning, Concordia Office of Rules and Norms
2020	Invited Workshop Participant, Atelier de travaille sur la strategie de protection des pollinisateurs, City of Montreal
2020	Invited Working Group Participant, Subjective Atlas of Montreal [CANCELLED/POSTPONED due to COVID-19]
2019	Symposium Co-Organizer ( <i>with I Laforest-Lapointe</i> ), “Integrating urban ecology across scales and trophic levels”, Canadian Society for Ecology and Evolution, Fredericton, NB
2019	Working Group Co-Organizer ( <i>with A Munson</i> ), Quebec Urban Biodiversity Research, Montreal, QC
2018-2020	Invited Working Group Participant, sUrBio2050 “Assessing globally

- important areas for biodiversity preservation and human well-being”, sDiv, Germany
- 2017 Symposium Co-Organizer (*with M Mitchell*), “Accelerating urban ecology in Canada: Identifying current research approaches, gaps, and needs in Canadian cities”, Canadian Society for Ecology and Evolution, Victoria, BC
- 2014 Symposium Co-Organizer (*with Kiyoko Gotanda, Tanya Stemberger, Jesse Rogerson*), “Science Communication: hands-on skill building in blogging and radio/podcasting”, Canadian Society for Ecology and Evolution, Montreal, QC

## INVITED TALKS

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### Invited Keynotes and Public Lectures

- 2021 Keynote Speaker, University of Wisconsin System Sustainability  
Keynote Speaker, Montgomery Parks Tree Summit  
Keynote Speaker, Centre for Applied Sciences in Ontario Protected Areas  
Pint of Science Canada, “Future Cities” \*Public Audience of 110
- 2020 Walrus Talks, “Living Better” \*Public Audience of >450  
Keynote speaker, Ottawa-Carleton Institute of Biology symposium \* Student invited speaker [CANCELLED due to COVID-19]
- 2019 Keynote Speaker, Sustainability Across Disciplines Conference, Concordia University  
Invited Panelist, Beyond Disciplines Lecture Series: Cities, Concordia University

### Invited Departmental Seminars

- (Scheduled 2022) Departmental Seminar, Cary Institute for Ecosystem Studies*  
*(Scheduled 2022) Departmental Seminar, University of Toronto*  
*(Scheduled 2022) Departmental Seminar, University of Manitoba*  
*(Scheduled 2022) Departmental Seminar, McGill University Biology*
- 2021 Departmental Seminar, University of Pittsburgh  
Engaging Science Seminar, Dawson College
- 2020 Seminar, Critical Garden Studies Working Group, Concordia Centre for Interdisciplinary Studies in Society and Culture  
Seminar, Cary Institute, Millbrook, NY [POSTPONED due to COVID-19]  
Departmental Seminar, Université du Québec a Montreal  
Departmental Seminar, York University  
Departmental Seminar, Université de Montreal
- 2019 Departmental Seminar, Queens University, Biology  
Departmental Seminar, Kent State University, Biology, Ohio USA  
Departmental Seminar, U de Montréal, Institute de recherché en biologie végétale  
Departmental Seminar, McGill University, MacDonald Campus  
Departmental Seminar, Concordia University, Geography, Planning, Environment  
Departmental Seminar, University of Toronto Mississauga, Biology and Centre for Urban Environments
- 2018 Departmental Seminar, Concordia University, Biology  
Departmental Seminar, University of Wisconsin-Madison, Biology Colloquium  
Departmental Seminar, University of Wisconsin-Madison, Center for Limnology

2017 Departmental Seminar, Memorial University of Newfoundland, Biology

### **Invited Symposium/Panel Presentations**

- 2021 Invited panelist, “Do the values of biodiversity scientists bias biodiversity science”:  
Loyola Sustainability Research Center, Concordia University  
Invited Panelist, Leadership in Urban Forestry and Urban Landscape Design,  
European Forum on Urban Forestry and the Nature Based Solutions Institute  
Invited Panelist, Designing future landscapes: Reclamation, resilience, and  
environmental management, École d’architecture Université de Montréal  
Invited Panelist, “Campus as a Living Lab”, Sustainability and the Climate Crisis,  
Montreal, QC
- 2020 Invited panelist, “Co-creating the Next-Generation Quartier: Let’s talk about urban  
biodiversity and wellbeing”, 4<sup>th</sup> Space, Concordia University  
Symposium Speaker, International Association of Landscape Ecology – North  
America, Toronto [*Symposia CANCELLED due to COVID-19*]  
Invited Panelist, Sustainability and the Climate Crisis, Montreal, QC [*Conference  
POSTPONED due to COVID-19*]
- 2019 Symposium Speaker, Ecological Society of America, Louisville, KY  
Symposium Speaker, Canadian Society for Ecology and Evolution, Fredericton, NB
- 2018 Symposium Speaker, Canadian Society for Ecology and Evolution, Guelph, ON
- 2017 Symposium Speaker, US-International Association of Landscape Ecology, Baltimore,  
MD *\*Best Student Presentation*

### **CONTRIBUTED TALKS (presenting author only)**

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- 2020 **Ziter C**, IALE-NA, Virtual Conference
- 2019 **Ziter C**, Pedersen EJ, Kucharik CJ, Turner MG. Partners in Community Forestry,  
Cleveland, OH *\*Competitive speaker selection*
- 2018 **Ziter C**, Pedersen EJ, Kucharik CJ, Turner MG. QCBS, Montreal, QC  
**Ziter C**, Pedersen EJ, Kucharik CJ, Turner MG. NACCB, Toronto ON  
**Ziter C**, Pedersen EJ, Kucharik CJ, Turner MG. US-IALE, Chicago IL  
**Ziter C**, Turner MG. Wisconsin Ecology Symposium, Madison WI (Poster)
- 2017 **Ziter C**, Turner MG. CSEE, Victoria, BC  
**Ziter C**, Turner MG. Wisconsin Ecology Symposium, Madison WI *\*Winner best talk*
- 2016 **Ziter C**, Turner MG. ESA, Fort Lauderdale FL  
**Ziter C**, Turner MG. CSEE, St John’s NL  
**Ziter C**, Turner MG. Early Career Scientists Meeting – NTL LTER, Madison WI
- 2015 **Ziter C**. ComSciCon: The National Science Communication Leadership Conference  
for Graduate Students, Cambridge MA (Poster)
- 2013 **Ziter C**. McGill Eco-Evo Seminar Series, Montreal QC  
**Ziter C**, Bennett E, Gonzalez A. QCBS, Montreal QC  
**Ziter C**, Bennett E, Gonzalez A. INTECOL, London UK  
**Ziter C**, Bennett E, Gonzalez A. ESA, Minneapolis, MN
- 2012 **Ziter C**, Bennett E, Gonzalez A. QCBS, Montreal QC
- 2011 **Ziter C**, MacDougall AS. Ontario Biology Day, Waterloo ON *\*Winner best talk*



## TEACHING

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### Undergraduate Courses

- 2020-2021 BIOL398: Ecology of Urban Environments, Concordia (Course developed by Ziter, 60 students, Fall terms). *[Delivered remotely in 2020, and blended in 2021 due to COVID-19]*  
*\*featured by Concordia News: "How to teach biology during a pandemic" ([link](#)); part of the Sustainability Action Plan Living Labs initiative – resulting in a student designed pollinator garden implemented on campus*
- 2019-2022 BIOL226: Ecology and Biodiversity, Concordia (170 students, Winter terms) *[Delivered remotely in 2020-21 due to COVID-19]*

### Direct Studies and independent research

I regularly advise undergraduate students in directed studies and independent research through the Biology Department (BIOL490), Loyola College for Diversity and Sustainability (LOYC398), and Science College (SCOL398)

### Guest Lecturing

- 2022
- 2021 Plants and People, University of New Brunswick  
DesignLIFES NSERC CREATE Short Course  
Selected Topics in Architecture: Urban Commoning, McGill/Concordia  
Urban Horticulture, Macdonald Campus, McGill University
- 2019, 2021 Quebec Centre for Biodiversity Science Intensive Course, Mont St Hilaire
- 2019 Data Driven Ecological Synthesis Intensive Course, U de M Biological Station
- 2018 Great Lakes, Rochester Institute of Technology
- 2016 Biology and Philosophy of Human/Animal Relationships, UW-Madison
- 2014 Research in Sustainability, McGill University Department of Geography
- 2012 Population and Community Ecology, McGill University

### Teaching Assistant

- 2014-2017 *UW-Madison*: Introductory Biology (x2); Biocore Ecology, Evolution, Genetics
- 2012-2013 *McGill*: Population and Community Ecology; St. Lawrence Ecosystems

## SUPERVISION AND MENTORING

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*I lead an active, diverse research group of undergraduate, graduate, and postdoctoral trainees spanning biology, geography, sustainability, and interdisciplinary studies. **My trainees have been highly successful in obtaining internal and external independent funding with my support, totalling over \$400,000 in funding over the past 2 years.***

### Postdoctoral Researchers

Gail MacInnis, 2020-2022 (*MITACS Elevate Fellowship, Concordia Top Up Award*); Maternity

leave 2021

## Graduate Students

### Active

Noa Davidai, PhD Biology, 2022-now (Co-Advised Emma Despland; Concordia Merit Scholarship, Concordia University Graduate Fellowship)

Michael Paulausaks, MSc Biology, 2021-now (Concordia Merit Scholarship)

Bella Richmond, PhD Biology, 2021 – now (Concordia Merit Scholarship, Concordia University Graduate Fellowship, NSERC CGS-D)

Lingshan Li, PhD Geography, Planning, Environment, 2020-now (Co-advised Ursula Eicker, Angela Kross via the Next Generation Cities Institute)

Fatemeh Izadi, PhD Individualized program, 2020-now (Co-advised Ursula Eicker, Carmella Cucuzzella via the Next Generation Cities Institute); Maternity leave 2022

### Completed

Kayleigh Hutt-Taylor, MSc Biology, 2019 – 2021 (Concordia Merit Scholarship)

Serena Sinno, MSc Biology, 2019 – 2021 (Co-advised JP Lessard; Hydro Quebec Scholarship)

Emily Kroft, MSc Biology, 2019 – 2021 (NSERC CGS-M Award, Concordia Faculty of Arts and Sciences Scholarship)

## Undergraduate Researchers

Mathieu Johnson, SCOL398: Independent Research Project, May-Dec 2021

Nicole Yu, Summer 2021 (Mitacs Globalink Intern)

Maya Catterall, Summer 2020 (Concordia USRA), May-Dec 2021 (NSERC USRA, Direct Study)

Sarah O'Driscoll, Artist in Residence, Summer 2021 (Concordia USRA)

Megan Tremblay, Summer 2021 (Concordia USRA)

Taylor Yeung, Direct Study in Sustainability, Jan 2021 – now

Katie Philips, BSc Honours Project, Sept 2020 – now

Kieu-Nhi Vu, Summer 2019 (Concordia USRA), BSc Honours Project, May-Dec 2020

Majed Al Hanout, Summer 2020 (NSERC USRA, FRQNT Top Up)

Élie Comtois, Summer 2020 (ECO Canada Internship)

Daniel Cretu, Summer 2020 (ECO Canada Internship)

Emma McLaughlin, Summer 2020 (ECO Canada Internship)

Katie Philp, Summer 2019 (Field Technician)

Serena Sinno, Summer 2019 (Field Technician)

## Student Committees

### Active

Pablo Sandoval, MSc Biology, UBC (D Srivastava, Advisor), 2022-now

Dana Martin, MSc Biology, Concordia (JP Lessard, Advisor), 2022-now

Animesh Ghose, PhD Biology, McGill University (A Gonzalez, E Filotas), 2022-now

Susan McLatchie, MSc Biology, Concordia (D Walsh, Advisor), 2021-now

Laura Raymond, PhD Biology, UQAM (T Handa, Advisor), 2021-now

Hugo Ouellet, MSc Biology, UQAM (A Paquette, Advisor), 2021-now

Danny McIsaac, MSc Biology, University of Waterloo (R Rooney, Advisor), 2020-now

Gabrielle Nessel, MSc Biology, Concordia (D Fraser, P Peres-Neto, Advisors), 2020-now  
Gabrielle Rimok, MSc Biology, Concordia (P Peres-Neto, Advisor), 2020-2021  
Shannon Clarke, MSc Biology, Concordia (J Grant, D Fraser, Advisors), 2019 – now  
Victor Renaud, MSc Biology, Concordia (JP Lessard, Advisor), 2019 – now  
Anne-Sophie Caron, PhD Biology, Concordia (E Despland, Advisor), 2019 – now

**Completed**

Isaac Eckert, MSc Biology, Concordia (JP Lessard, Advisor), 2019 – 2021  
Pamela Yataco, BSc Biology, Concordia (E Despland, Advisor), 2019

**Thesis External**

Eric Dexheimer, MSc, Concordia  
Maria Isabel Carol Aristizabal, UQAM, 2021  
Makayla Harris, MSc, Concordia  
Francois Cardou, PhD, Sherbrooke

**Additional Mentoring**

2017-2018 Peer mentor, Zoology Introductions for New Students program, UW-Madison  
2012-2017 Supervised 6 research assistants, McGill and UW-Madison  
2013 Supervised 3 sustainability interns, McGill

**PROFESSIONAL SERVICE**

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**Selected University and Community Service**

2021 – now Member, hiring committee for Tier 2 CRC in Ecological Sustainability  
2021 – now Member, Campus Master Plan Initiative, Concordia  
2021 – now Member, Speculative Life Research Cluster, Milieux Institute, Concordia  
2021 – now Member, Alliance Fôret Urbaine, Montreal  
2021 – now Fellow, Loyola College for Diversity and Sustainability, Concordia  
2021 – now Comité Scientifique, Chaire de recherche sur la forêt urbaine (Alain Paquette), UQAM  
2020 – now Faculty of Arts and Sciences representative, Centraide, Concordia University  
2019 – now Internal MSc NSERC Committee, Faculty of Arts and Sciences, Concordia University  
2019 – now Member, Loyola Sustainability Research Centre, Concordia University  
2019 – now Fellow, Science College, Concordia University  
2019 – now Communication Committee, International Association of Landscape Ecology – North America  
2019 – now Core Faculty Member, Concordia Cluster for Smart, Sustainable, and Resilient Cities and Communities  
2018 – now Member, Quebec Centre for Biodiversity Science, FRQNT Strategic Network  
2021 Workshop on Academic Writing, Concordia Biology Graduate Association  
2020 Judge, Student Presentations, QCBS Annual Meeting  
2020 Working Group, Increasing Access to Campus Green Spaces During COVID-19, Concordia University

- 2019 Organizing Committee and Volunteer, Loyola Campus Tree Planting (185 native trees planted on campus in partnership with Soverdi)
- 2019 Judge, Student Presentations, Bold Science Conference, Concordia University
- 2019 City Studio Planning Meeting, Concordia University
- 2017-2019 Journal of Urban Ecology Editorial Board – Social Media Editor
- 2015-2019 International Network of Next Generation Ecologists Working Group
- 2016-2018 Leadership of data collection, processing, and management for a 150-sensor array to study urban heat island effects for the NTL-LTER
- 2015-2016 President, UW-Madison Zoology Graduate Student Organization
- 2015-2016 Grad student rep, Zoology Instructional Programs Committee, UW-Madison
- 2012-2013 Organismal Seminar Graduate Representative, McGill Department of Biology
- 2012-2013 Grad student rep, Conservation, Ecology, Evolution, Behavior Seminar, McGill
- 2012-2013 Councilor, McGill Biology Graduate Student Association
- 2012-2013 Organizing Committee, Conservation, Ecology, Evolution and Behavior Graduate Student Symposium, McGill

### External Reviewer

- 2015 – Peer Reviewer: *BioScience* (6), *Conservation Letters*, *Ecology and Society*, *Ecological Applications*, *Ecosphere*, *Environmental Reviews*, *Frontiers in Ecology and the Environment*, *Frontiers in Ecology and Evolution*, *Journal of Applied Meteorology and Climatology*, *Journal of Plant Ecology*, *Landscape Ecology*, *Landscape and Urban Planning* (2), *Nature Communications* (2), *PLOS One* (4), *PNAS*, *Regional Environmental Change*, *Science of the Total Environment* (3), *SOIL*, *Urban Ecosystems* (2), *Urban Forestry and Urban Greening*
- 2020 International Grant Reviewer: BRAIN-be (Belgian Research Action through Interdisciplinary Networks)
- 2020 International Grant Reviewer: Macquarie University Research Fellowships
- 2020 Grant Reviewer: Mitacs Accelerate
- 2019-2020 Reviewer, CSEE PhD Diversity and Excellence Awards
- 2019 External Reviewer: *Canada in a Changing Climate: Advancing our Knowledge for Action*. National Assessment, Government of Canada
- 2017 International Grant Reviewer: NRF Singapore CREATE

### Professional Memberships

Canadian Society for Ecology and Evolution; Ecological Society of America; Quebec Center for Biodiversity Science; International Association for Landscape Ecology – North America

### SELECTED KNOWLEDGE MOBILIZATION

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#### Public Science and Environment Writing

- 2020 Invited Essay, “Une transition vers des villes plus vertes”, *La Presse*. One of 14 pieces in the *L’après-COVID-19* dossier coordinated by Catherine Girard, Isabelle Laforest-Lapointe, and Felix Mathieu:

<https://www.lapresse.ca/debats/opinions/202005/05/01-5272273-lapresse-covid-19-une-transition-vers-des-villes-plus-vertes.php>

Invited Essay, Global COVID Roundtable, The Nature of Cities:

<https://www.thenatureofcities.com/2020/05/03/covid-has-upended-all-the-normal-routines-in-our-lives-and-work-how-do-you-imagine-you-might-be-changed-by-it-both-professionally-but-also-personally-as-you-negotiate-a-new-post-virus-norm/>

Invited Essay, What is One Tree Worth, The Nature of Cities:

<https://www.thenatureofcities.com/2020/12/22/what-is-one-tree-worth/>

Guest Contributor, Scientist Sees Squirrel Blog:

<https://scientistseessquirrel.wordpress.com/2020/03/03/in-praise-of-the-red-pen-editing-as-an-act-of-caring/> and

<https://scientistseessquirrel.wordpress.com/2020/03/31/editing-as-conversation/>

Guest Contributor, Plant Love Stories Blog:

<https://www.plantlovestories.com/post/to-all-the-trees-i-ve-loved-before>

## Education and Outreach

- 2021 Speaker, Urban Ecology, Riparia (Canadian charity connecting women and science on the water)  
Co-organizer, Fibre-Arts Workshop, Canadian Society for Ecology and Evolution  
Invited Panelist, Urban Biodiversity Webinar, Concordia University and WWF Campus Program  
Featured in "Internet of Nature" book (forthcoming, Nadina Galle)  
Featured researcher, "Chasing bats and tracking rats: urban ecology, community science, and how we share our cities", Cylita Guy, Annick Press  
Consultant, children's picture book about urban nature (Author Jaimie Franchi, funded by Canada Council for the Arts)
- 2020 Invited speaker at Dorshei Emit Synagogue, Tu B'shevat (New year for trees)  
Invited speaker, The Walrus Talks Living Better (public audience 450 people)  
Invited speaker, St James Church Forest "Pick Up Day", Montreal City Mission  
*\*Trilingual event for new Canadians, facilitated by three Ziter lab students*  
Invited talk on Science Careers, "Quest Lab", Mississippi State  
Invited talk, "Urban Ecology Lab Breakfast", Seattle  
Research featured in Urban Ecology Book (forthcoming, Marina Alberti)
- 2019 Urban Biodiversity Exhibit as part of "Next Generation Cities" Programming at Concordia 4<sup>th</sup> Space, Montreal
- 2018 Invited speaker, Meet the Author Event, Young Ecosystem Service Specialists  
Invited speaker, 18<sup>th</sup> Annual Science Day, UW-Madison Arboretum  
Public Lecture University Woods Oakwood Village
- 2017 Invited speaker, PEO International Chapter AE and DH  
Public lecture Dane County Community Gardens Coalition  
Public lecture Madison Christian Community  
Public lecture Madison Public Library

- Organized Madison's "Citywide Jumping Worm Survey", a citizen science census to quantify presence and abundance of an invasive species, sponsored by NTL-LTER, UW-Madison Integrative Biology, UW-Madison Arboretum  
Invited speaker, 17<sup>th</sup> Annual Science Day, UW-Madison Arboretum  
Guest Lecture, La Follette High School  
Workshop facilitator, Meeting our future water needs: A technical workshop for stakeholders by Water, Sustainability and Climate project, UW-Madison
- 2015-2017 Outreach volunteer, UW-Madison's Science Expeditions (Annually, x3 years)  
2014-2016 Outreach volunteer, Wisconsin Science Festival (Annually, x 3 years)  
2016 Presentation to UW Arboretum staff on invasive earthworm research  
Invasive earthworm demonstration, U-Maine Field Natural History class  
Invasive earthworm demonstration, Forest Health workshop UW-Arboretum  
Outreach volunteer, "Teen Science Cafés"  
Panelist, "Strategies for securing student grants", ESA, Fort Lauderdale FL
- 2015-2016 Outreach volunteer, UW-Madison Darwin Day (Annually, x2 years)  
2015 Guest Instructor, UW-Madison Preschool Laboratory  
Outreach volunteer, Dane County Farm Technology Days, Sun Prairie, WI.  
Invited Panellist, UW-Madison Undergraduate Zoological Society
- 2013-2014 Blogger, Jane Goodall Institute of Canada  
2014 Workshop lead, "Social Media, Websites, and Technology in Science Communication". UW-Madison Graduate Student Informal Seminar Series  
Project Manager "Linking Action & Research on Sustainability". A bilingual science communication initiative through McGill's Office of Sustainability, focused on training and supporting scientists in publicizing their research
- 2013 Social Media Coordinator, Project Manager "Montreal's Ecosystems at your Service". A bilingual science communication initiative through McGill's Office of Sustainability, using storytelling to connect Montrealers with nature.  
Panelist, Canadian Science Writer Association Annual Meeting, Montreal, QC.
- 2011-2013 Presenter (x10), Let's Talk Science, McGill University.  
2012 Invited speaker, Curieux de Nature Lecture Series, Mont Saint Hilaire

#### **ADDITIONAL PROFESSIONAL EXPERIENCE AND TRAINING**

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- 2019 Participant, Intersectionality: What is it and how can it inform our workplace and research practices? Workshop from Society for Women Entering Ecology and Evolution Today
- 2018 Participant, How to use your science to inform and influence policy for concrete conservation outcomes. Workshop from Evidence for Democracy
- 2017 Participant, Breaking the prejudice habit: Creating Inclusion and Overcoming Bias. Workshop led by Dr. Patricia Devine, Dr. William Cox, UW-Madison  
Participant, Diversity and Inclusivity Training, UW-Madison  
Participant, COMPASS Workshop: Communicating your Science, UW-Madison
- 2016 Invited Participant, National Geographic Storytelling Bootcamp, UW-Madison  
2015 Participant, Data Carpentry Workshop, UW-Madison  
Invited participant, ComSciCon: National Science Communication Leadership Conference for Graduate Students. 50 selected students of 970 applicants

2014 DIVERSITAS Youth Reporter. One of four international students selected to report on the DIVERSITAS Meeting and transition to Future Earth, Spain

## SELECTED MEDIA COVERAGE

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*My work and that of my trainees is regularly featured in local, national, and international news and other media, appearing in over 40 print and broadcast stories in the past 2 years*

- 2021 In cities, money doesn't grow on trees, but more trees grow near money CBC MONTREAL by Benjamin Shingler and Roberto Rocha ([link](#))  
Rewilding can be a boon for urban environments GLOBE AND MAIL by Kat Tancock ([link](#))  
This is your brain on trees GLOBE AND MAIL by Hannah Hoag ([link](#))
- 2020 Urban beekeeping can be bad for wild bees CBC NEWS by Emily Chung ([link](#))  
*(features postdoc MacInnis)*  
Study asks N.D.G. residents to measure trees in their own backyards. MONTREAL GAZETTE by T'Cha Dunlevy ([link](#)) *(features student Hutt-Taylor)*  
What's in your backyard. Let's Go with Sabrina Marandola. CBC RADIO ([link](#))  
Landscape Ontario Podcast. Thinking Beyond the Park, with Scott Barber ([link](#))
- 2019 Why liveable cities need public spaces that aren't an afterthought, GLOBE AND MAIL ([link](#))  
Les arbres, ces miniclimatiseurs. LE DEVOIR by Magdaline Boutros ([link](#))  
Cities turn to urban forest to combat climate change. GLOBE AND MAIL by David Israelson ([link](#))  
Trees nature's air conditioner. All in a Weekend. CBC RADIO by Jill Walker ([link](#))  
Science of Summer: How many trees does it take to cool a city. OTTAWA CITIZEN by Tom Spears ([link](#))  
City trees can offset neighbourhood heat islands, Concordia researcher says. CONCORDIA NEWS, by Patrick Lejtenyi ([link](#)) \*covered in several outlets, including NSF DISCOVERY, MONTREAL GAZETTE, front page of REDDIT (received 1.4k comments, 48.6 upvotes)  
Study suggests trees are crucial to the future of our cities. UW-MADISON NEWS, by Adam Hinterthuer ([link](#)) \*covered in several outlets, including POPULAR SCIENCE, EVENING STANDARD, EARTH.COM, GEEK.COM, ANTHROPOCENE MAGAZINE
- 2018 A secret superpower, right in your backyard. THE NEW YORK TIMES by Kendra Pierre-Lois ([link](#))  
Green spaces in cities help control floods, store carbon. UW-MADISON NEWS, by Adam Hinterthuer ([link](#)) \*covered in several outlets, including NATURAL CAPITAL COALITION, PREVENTIONWEB, VRT BELGIUM, TIMES COLONIST
- 2017 Citizen scientists scour Madison area for invasive jumping worms. UW-MADISON NEWS, by Eric Hamilton ([link](#))
- 2016 Urban Ecosystem Services. Radio interview, EARTHSPEAK RADIO: WSUM

[\(link\)](#) \*also played on WORT COMMUNITY RADIO [\(link\)](#)  
Weather Bikes Stand Out In Urban Studies, Advance Science Dialogue.  
ENVIRONMENTAL MONITOR, by Daniel Kelly [\(link\)](#)  
Worming their way into Wisconsin. ISTHMUS, by Doug Hansmann, Denise  
Thornton [\(link\)](#)