

Carly D. Ziter

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RESEARCH INTERESTS

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

EDUCATION

2014-2018 **PhD** University of Wisconsin-Madison, Department of Integrative Biology
2011-2013 **MSc** McGill University, Departments of Biology, Natural Resource Sciences
2007-2011 **BSc** University of Guelph, Environmental Biology (minor Statistics)

EMPLOYMENT AND ACADEMIC HISTORY

2018 (Dec) – Assistant Professor, Concordia University, Biology Department;
Cluster for Smart, Sustainable, and Resilient Communities and Cities
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*

2022 Research Communicator of the Year – Francophone Media, Concordia
(Institutional)
2019, 21, 22 Newsmaker of the Month, Concordia *(Institutional, recipient x3)*
2021 Concordia University Research Chair in Urban Ecology and Sustainability
2020 Research Communicator of the Year – National, Concordia *(Institutional)*
2020 Sustainability Champion Award (team member), 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

Peer Reviewed Journal Articles ([Google Scholar](#): 1200 citations, H-Index 15)

[†] indicates a student or PDF trainee

Submitted/In Review/Revision

[†]Kroft, LE, **Ziter CD**. The effects of urban density on the provision of multiple health-related ecosystem services. (*In Review*)

Published/In Press

22. [†]MacInnis G, Normandin E, **Ziter CD**. 2023. Decline in wild bee species richness associated with honey bee (*Apis mellifera* L.) abundance in an urban ecosystem. Peer J 10:e14699 (*Accepted*)
21. [†]Hutt-Taylor K, **Ziter CD**. 2022 Private trees contribute uniquely to urban forest diversity, structure, and service-based traits. Urban Forestry and Urban Greening 78: 127760
20. [†]Hutt-Taylor K, **Ziter CD**, Frei B. 2022. How can urban nature-based climate solutions support multiple benefits for migratory birds and species at risk: A systematic map protocol. Environmental Evidence 11: 34
19. Verrelli BC, Alberti M, Des Roches S, Harris NC, Hendry AP, Johnson MTJ, Savage AM, Charmantier A, Gotanda KM, Govaert L, Miles LS, Rivkin LR, Winchell KM, Brans KI, Correa C, Diamond SE, Fitzhugh B, Grimm NB, Hughes S, Marzluff JM, Munshi-South J, Rojas C, Santangelo JS, Schell CJ, Schweitzer JA, Szulkin M, Urban MC, Zhou Y, **Ziter C**. 2022. A global horizon scan for urban evolutionary ecology. Trends in Ecology and Evolution 37: 1006-1019
18. Santangelo et al. (over 250 authors including **Ziter**). 2022. Global urban environmental change drives adaptation in white clover. Science 375: 1275-1281
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 256: 108983

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* 71: 280–291
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 CD. Research Highlight: Cryptic eco-evolutionary feedback in the city. 2022. *Journal of Animal Ecology* 91:510-513 **Invited research highlight*

Ziter CD, 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. 2021. Fieldwork in Landscape Ecology. In: Perry G, Minor E, Francis R, Millington J (eds) *Handbook of Landscape Ecology*. Routledge, Taylor and Francis Group (*In Press*)

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 Montréal 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, Generalp 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

I have been the Lead PI, Co-PI, or Co-Applicant on grant and fellowship funding worth ~\$5.5 million (with >750K allocated to my research program). I prioritize team science that allows me to contribute biodiversity and ecology knowledge to broader interdisciplinary pursuits with applied relevance, as evidenced by my participation in interdisciplinary grants with research teams spanning the fields of ecology, social sciences, arts and humanities, engineering, and public health.

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

- 2022-2027 NSERC Alliance. “Urban forests : towards adaptation to global changes”, (Co-Applicant, Alain Paquette lead PI, \$1,059,343)
- 2022-2027 SSHRC Partnership Grant, “Quality in Canada’s Built Environment: Seeking Equity, Social Value and Sustainability” (Co-App, Jean-Pierre Chupin lead PI, 40+ researchers across 14 institutions, \$2,500,000)
- 2022-2025 SSHRC Partnership Development Grant, “Les infrastructures vertes urbaines au Québec : diversité, caractéristiques et impacts socioécologiques” (Co-PI, Hiên Pham is Lead PI, \$195,716)
- 2022-2024 FRQNT Research Support for New Academics. “Biodiversité et services écologiques des infrastructures vertes urbaines à l’échelle locale”, (Sole PI, \$83,518)
- 2022-2024 Concordia Horizon Postdoctoral Funding: Nature Based Solutions for Urban Biodiversity, Climate, and Communities (Lead PI, \$80,000)
- 2022-2023 Concordia Sustainable Transitions Team Research Initiative. “Enhancing biodiversity, social inclusion, and climate resilience through informal urban green spaces”, (Co-App, Amy Poteete lead PI, \$20,000)
- 2022-2023 Environment and Climate Change Canada “Environmental scan of current research and best practices to support the co-benefits of nature-based climate solutions to Canadian biodiversity” (Grants and Contributions funding, \$125,000)
- 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)
* full CREATE grant runs from 2019-2025, Ziter recruited to join via competitive selection process in 2021
- 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)
- 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-cr ation de propositions de r cup ration des mat riaux et engagement citoyen” (Co-PI, Alice Jarry is Lead PI, \$24,711)
- 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)
- 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 mat riaux : le bien- tre des communaut s et la r cup ration d’une infrastructure routi re” (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

- 2022 ECO Canada student internship funding (\$25,000)
- 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)
** declined to attend US institution, accepted NSERC PGS-D (\$63,000)*
- 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

2022	Save Our Northern Hardwood Forests, Jumping Worm mini-conference, University of Vermont
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 (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 due to COVID-19]
2019	Symposium Co-Organizer (with I Laforest-Lapointe), “Integrating urban ecology across scales and trophic levels”, Canadian Society for Ecology and Evolution, Fredericton, NB
2019	Working Group Co-Organizer (with A Munson), 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

- 2014 Canada: Identifying current research approaches, gaps, and needs in Canadian cities”, Canadian Society for Ecology and Evolution, Victoria, BC 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

Invited Keynotes and Public Lectures

- 2023 *Scientific Plenary, Canadian Society for Ecology and Evolution Annual Meeting (Upcoming)*
- 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

- 2023 *Departmental Seminar, Dalhousie Agriculture (Upcoming)*
Departmental Seminar, Purdue Forestry and Natural Resources (Upcoming)
- 2022 Departmental Seminar, University of Toronto Daniels Faculty of Architecture, Landscape and Design
Departmental Seminar, University of Toronto EEB
Departmental Seminar, University of Manitoba Entomology
Departmental Seminar, McGill University Biology
Departmental Seminar, Cary Institute for Ecosystem Studies
Departmental Seminar, Graduate Mathematics and Science Students, Brock University *Student Invited
- 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

- 2022 Symposium Talk, “Urban Ecosystems in a Changing Climate”, Ecological Society for America/Canadian Society for Ecology and Evolution Joint Annual Meeting
Ignite talk, “Urban Biodiversity”, Concordia Institute for Next Generation Cities knowledge exchange event
To create a scheme for transdisciplinary professional training: A co-creative workshop, The Nature of Cities Festival
Tree Talks: Co-creative Discussion and Interactive Workshop, The Nature of Cities Festival
- 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”, 4th 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*)

- 2020 **Ziter C**, IALE-NA
- 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

Pedagogy Initiatives

- 2022 Selected as one of four faculty university-wide to participate in a pilot program on Infusing Black Scholarship in the Curriculum

Undergraduate Teaching

- 2020-2022 BIOL398: Ecology of Urban Environments, Concordia (Course developed by Ziter, 60 students, Fall terms). *[Delivered remotely and hybrid in 2020 and 2021, respectively, 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 and hybrid in 2020, 2021, 2022 due to COVID-19]

Directed 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 (SCOL391) (*average of 2 students per year*)

Guest Lecturing

- 2022 Urban Ecology, Northwestern
Worldbuilding, Queens
Urbanization and Biodiversity, Queens
- 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

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 \$510,000 in funding over the past 3 years.

Postdoctoral Researchers

Riikka Kinnunen, 2022 – now (*Concordia Horizon PDF*)
Gail MacInnis, 2020-2022 (*MITACS Elevate Fellowship, Concordia Top Up Award*); Maternity leave 2020

Graduate Students

Chloe Cull, MSc Biology, Fall 2022-now (*NSERC CGS-M, Concordia Merit Scholarship*)
Nicole Yu, MSc Biology, Fall 2022-now (*Concordia Merit Scholarship, MITACS Globalink Graduate Fellowship, British Council IELTS prize*)
Noa Davidai, PhD Biology, 2022-now (*Co-Advised Emma Despland; Concordia Merit Scholarship, Concordia University Graduate Fellowship, LEADS CREATE Fellow*)
Michael Paulauskas, MSc Biology, 2021-now (*Concordia Merit Scholarship, UFOR CREATE Fellow*)
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
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 FAS Scholarship*)

Post-MSc Technicians/Research Associates

Kayleigh Hutt-Taylor, MSc, 2022 – now
Danielle Mac Rae, Research Technician, 2023
Shannon Clarke, Research Technician, 2022

Undergraduate Researchers

Niraj Dayanandan, Research Assistant, DesignLIFES, 2022 – now
Erica Padvaiskas, BSc Honours Project, 2022 (*UFOR CREATE Scholarship*)
Emily Campbell, Research assistant, Fall 2022
Isaac Finkelstein, Lab technician, Fall 2022
Angelina Teichrib, Summer 2022 (*Mitacs Globalink Intern*)
Laura Gonzalez, Summer 2022 (*Mitacs Globalink Intern*)
Gabrielle Gingras, Field technician, Summer 2022
Lauren Tran, Undergraduate Research Assistant, 2021
Mathieu Johnson, SCOL391: 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-May 2021
Katie Philips, BSc Honours Project, Sept 2020-May 2021
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

Jiwei Zou, PhD Building Civil and Environmental Engineering, Concordia (L Wang, Advisor),
2022-now
Caleb Fenez, MSc Geography Planning and Environment, Concordia (J Jaeger, Advisor),
2022-now
Marie-Eve Jarry, BSc Biology, Concordia (E Despland, Advisor), 2022-2023
Noa Romund, BSc Biology, Concordia (E Despland, Advisor), 2022-2023
Andrea Destarac, BSc Biology, Concordia (G Brown, Advisor), 2022
Romain Jaeger, PhD Biology, UQO (S Delagrang, Advisor), 2022-now
Imrul Kayes, PhD Forestry, U of T (S Thomas, Advisor), 2022-now
Gabrielle Bealne, MSc Biology, UQO, 2022-now
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
Gabrielle Nessel, MSc Biology, Concordia (D Fraser, P Peres-Neto, Advisors), 2020-now
Victor Renaud, MSc Biology, Concordia (JP Lessard, Advisor), 2019 – now
Anne-Sophie Caron, PhD Biology, Concordia (E Despland, Advisor), 2019 – now

Completed

Shannon Clarke, MSc Biology, Concordia (J Grant, D Fraser, Advisors), 2019 – 2022
Gabrielle Rimok, MSc Biology, Concordia (P Peres-Neto, Advisor), 2020-2022
Danny McIsaac, MSc Biology, University of Waterloo (R Rooney, Advisor), 2020-2022
Isaac Eckert, MSc Biology, Concordia (JP Lessard, Advisor), 2019 – 2021
Pamela Yataco, BSc Biology, Concordia (E Despland, Advisor), 2019

Thesis External Evaluator

Felix Lorrain-Landry, PhD, UQO, 2022
Eric Dexheimer, MSc, Concordia, 2021
Maria Isabel Carol Aristizabal, MSc UQAM, 2021
Makayla Harris, MSc, Concordia, 2019
Francois Cardou, PhD, Sherbrooke, 2019

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

Selected University and Community Service

2022 – now Biology Equity, Diversity, Inclusivity Committee, Concordia University
2022 – now Nominations committee, International Association of Landscape Ecology – North America
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
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
2022 Invited Talk on Reading a Scientific Paper, BOLD Science Conference, Science College, Concordia University
2021 – 2022 Member, hiring committee for Tier 2 CRC in Ecological Sustainability
2019 – 2021 Internal MSc NSERC Committee, Faculty of Arts and Sciences, Concordia University

- 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
- 2020 Faculty of Arts and Sciences representative, Centraide, 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

Editorial Service and External Review

- 2022 – Associate Editor, *Frontiers in Ecology and the Environment*
- 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*
- 2022 External Reviewer, sDiv Synthesis Centre, German Centre for Integrative Biodiversity Research
- 2022 External Reviewer, NSERC Discovery Grants
- 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

Public Science and Environment Writing

- 2022 Essay, Blowing in the Wind: Leaf Blower Disservices for Human and Ecosystem Health in the City, The Nature of Cities:
<https://www.thenatureofcities.com/2022/06/20/blowing-in-the-wind-leaf-blower-disservices-for-human-and-ecosystem-health-in-the-city/>
- 2020 Invited Essay, “Une transition vers des villes plus vertes”, La Presse. One of 14 pieces in the *L’apres-COVID-19* dossier coordinated by Catherine Girard, Isabelle Laforest-Lapointe, and Felix Mathieu:
<https://www.lapresse.ca/debats/opinions/202005/05/01-5272273-lapres-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

- 2022 Speaker, Research in Conversation, Concordia University
- 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 4th Space, Montreal
- 2018 Invited speaker, Meet the Author Event, Young Ecosystem Service Specialists
Invited speaker, 18th 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, 17th 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

2022	Leadership Training, Margaret Krebs, Program Designer for the Earth Leadership Program
2021	EDI training for faculty search committee members, Concordia University
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

My work and that of my trainees is regularly featured in local, national, and international news and other media, appearing in over 60 print and broadcast stories in the past 4 years

2022	Le défi de protéger la biodiversité à Montréal RADIO CANADA by Valérie Boisclair (link) Here's who lives in your city's worst heat islands RADIO CANADA by Naël Shiab and Isabelle Bouchard (in english/en français) Urban heat islands highlight social inequity CBC MONTREAL NEWS with Debra Arbec (link) How much should a tree be worth CBC NEWS by Stephanie Dubous (link) Revenge of the earthworms THE WALRUS by Moira Donovan (link)
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) (<i>features postdoc MacInnis</i>) Study asks N.D.G. residents to measure trees in their own backyards. MONTREAL GAZETTE by T'Cha Dunlevy (link) (<i>features student Hutt-Taylor</i>) 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. CBC RADIO All in a Weekend with 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...
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, 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](#))