

## Carly Ziter

University of Wisconsin, Madison • Department of Zoology  
Ecosystem and Landscape Ecology Lab  
430 Lincoln Drive, Madison, Wisconsin 53706  
Email: ziter@wisc.edu • Cell: (608) 361-8792 • Department: (608) 262-1051

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### EDUCATION

- 2014 – **Ph.D.**, University of Wisconsin-Madison, Department of Zoology, *Dissertation: Ecosystem service provision in an urban landscape: roles of landscape structure, land-use history, and biodiversity.* Advisor: Dr. Monica Turner
- 2011–2013 **M.Sc.**, McGill University, Departments of Biology, Natural Resource Sciences, *Thesis: The effects of forest fragmentation on aboveground carbon stocks and tree diversity: A case study of the Montérégie, QC.* Advisors: Dr. Andrew Gonzalez and Dr. Elena Bennett
- 2007–2011 **B.Sc.**, University of Guelph, Environmental Biology (minor Statistics). *Thesis: Consumer and resource driven impacts on root dynamics and carbon sequestration in a degraded grassland.* Advisor: Dr. Andrew MacDougall

### RESEARCH INTERESTS

Ecosystem services, landscape ecology, multifunctional landscapes, biodiversity science, urban ecology, sustainability

### ACADEMIC APPOINTMENTS

- 2016-2017 Teaching Assistant, University of Wisconsin-Madison
- 2014-2017 Research Assistant, University of Wisconsin-Madison. Funding: Natural Sciences and Engineering Research Council of Canada (2014-2017); National Science Foundation (2015-2016); Departmental Research Fellowship (2015)
- 2014 Teaching Assistant, University of Wisconsin-Madison (Fall Semester)
- 2012-2013 Teaching Assistant, McGill University.
- 2011-2013 Research Assistant, McGill University. Funding: Natural Sciences and Engineering Research Council of Canada (2011-2012); Ouranos (2012-2013)

### GRANTS, FELLOWSHIPS, AND AWARDS (~ \$225,000)

- 2016 Garden Club of America Zone VI Fellowship in Urban Forestry (\$5000 USD)
- 2016 National Geographic Young Explorer Award: *"Impacts of multiple invasive species on ecosystem service provision in an urbanizing agricultural watershed."* (\$4116 USD)

- 2015 John Jefferson Davis Travel Award, University of Wisconsin Madison (\$850 USD)
- 2015 Phi Kappa Phi – National Honor Society
- 2015 Selected participant, travel award recipient, ComSciCon 2015: The National Science Communication Leadership Conference for Graduate Students. One of 50 selected STEM graduate students (970 applicants) (\$400 USD)
- 2015 Incoming Student Graduate Research Fellowship, Zoology Department, University of Wisconsin Madison (\$13,000 USD + Tuition)
- 2014 DIVERSITAS Youth Reporter. One of four international graduate students selected to attend and report on the 2014 DIVERSITAS Annual Meeting and transition to Future Earth, in Seville, Spain
- 2014 – 2017 NSERC Alexander Graham Bell Canada Graduate Scholarship (NSERC CGS-D\*, \$35,000 x 3 yrs)  
\* *declined to attend USA institution, accepted NSERC PGS-D (\$21,000 x 3yrs)*
- 2014 McGill Sustainable Projects Fund Grant, *Project: Linking Action and Research on Sustainability* (Co-lead, primary grant author, \$39,580)
- 2014 Canadian Society for Ecology and Evolution Conference and Symposium Award (co-applicant, \$1000)
- 2013 Union of Concerned Scientists/ESA Student Section Ecoservice Award Honourable Mention
- 2013 McGill International Research Travel Award, UK (\$2000)
- 2012 Quebec Center for Biodiversity Science Excellence Award (\$2195)
- 2011 Graduate Admission “Top Up” Award, McGill Biology Department (\$2500)
- 2011 Graduate Excellence Fellowship, McGill Biology Department (\$4228)
- 2011 NSERC Alexander Graham Bell Canada Graduate Scholarship (NSERC CGS-M, \$17,500)
- 2011 School of Environmental Sciences Academic Prize, University of Guelph (Top Graduating GPA) (\$1000)
- 2011 Beth Duncan Gold Medal for involvement in campus extracurricular activities, University of Guelph
- 2011 Best Oral Presentation in Ecology/Evolution/Biodiversity, Ontario Biology Day, Wilfred Laurier University (\$200)
- 2010 Bryant Family Research Scholarship for Best Undergraduate Thesis Proposal in Integrative Biology, University of Guelph (\$300)
- 2010 Undergraduate Summer Research Award, University of Guelph (\$5625)
- 2010 Arthur Latornell Travel Award, Antarctica, University of Guelph (\$1000)
- 2010 OAC’54 International Study Award, Antarctica, University of Guelph (\$1450)

- 2009 – 2010 OAC Dean’s Scholarship, University of Guelph (\$1000 x 2yrs)  
2009 NSERC Undergraduate Student Research Award (\$5625)  
2007 – 2011 Board of Governors Scholarship, University of Guelph (\$2000 x 4yrs)  
2007 University of Guelph Entrance Scholarship (\$3000)

**PEER REVIEWED PUBLICATIONS (8 published/in press, 1 in review, h-index: 6)**

*In review*

**Ziter, C.**, Graves, R.A., Turner, M.G. How do land-use legacies affect ecosystem services in United States cultural landscapes? *Landscape Ecology (In Review)*

*Published*

Rose, K.C., Graves, R.A., Hansen, W.D., Harvey, B.J., Qiu, J., Wood, S.A., **Ziter, C.**, and Turner, M.G. Foundations and future directions in macrosystems ecology. *Ecology Letters (In press)*

**Ziter, C.** 2016. The biodiversity-ecosystem service relationship in urban areas: A quantitative review. *Oikos* 125: 761-768

Mitchell, M.G.E, Bennett, E.M., Gonzalez, A., Lechowicz, M., Rhemtulla, J., Cardille, J., Vanderheyden, K., Poirier-Ghys, G., Renard, D., Delmotte, S., Albert, C., Rayfield, B., Dumitru, M., Huang, H.-H., 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

**Ziter, C.**, Bennett, E., and Gonzalez, A. 2014. Temperate forest fragments maintain aboveground carbon stocks out to the forest edge despite changes in community composition. *Oecologia* 176: 893-902

**Ziter, C.**, Bennett, E., and Gonzalez, A. 2013. Functional diversity and management mediate aboveground carbon stocks in small forest fragments. *Ecosphere* 4: article 85.

Liss, K\*, Mitchell, M.G.E.\*, MacDonald, G.K., Mahajan, S., Méthot, J., Jacob, A.L., Maguire, D., Metson, G., **Ziter, C.**, Dancose, K., Martins, K., Terrado Casanovas, M., and Bennett, E.M. 2013. Variability in ecosystem service measurement: a case study of pollination service studies. *Frontiers in Ecology and the Environment* 11:414–422

**Ziter, C.**, and MacDougall, A.S. 2013. Nutrients and defoliation increase soil carbon inputs in grassland. *Ecology* 94:106-116.

**Ziter, C.**, Robinson, E.A, and Newman, J.A. 2012. Climate change and voltinism in California insect pest species: sensitivity to location, scenario and climate model choice. *Global Change Biology* 18:2771-2780.

**TECHNICAL REPORTS**

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

**PRESENTATIONS AND WORKSHOPS (presenting author only)**

**Ziter, C.** and Turner, M.G. 2016. Effects of land cover, land-use history, and within-land cover variability on soil- based ecosystem services in urban Madison, WI. Ecological Society of America Annual Meeting. Fort Lauderdale, FL

**Ziter, C.** and Turner, M.G. 2016. Effects of land cover, land-use history, and within-land cover variability on soil- based ecosystem services in urban Madison, WI. Canadian Society for Ecology and Evolution Annual Meeting. Memorial University of Newfoundland, St John's, NL

**Ziter, C.,** and Turner, M.G. 2016. Potential impacts of invasive species interactions on ecosystem service provision in the greater Madison area. North Temperate Lakes Long Term Ecological Network Early Career Scientists Meeting, Madison, WI.

**Ziter, C.** 2015. Montreal's Ecosystems at your Service: Stories Connecting People and Nature. ComSciCon 2015: The National Science Communication Leadership Conference for Graduate Students, Microsoft NERD Center, Cambridge, MA. (*poster presentation*)

**Ziter, C.** 2014. Social Media, Websites, and Technology in Science Communication. Graduate Student Informal Seminar Series, University of Wisconsin-Madison, Madison, WI

Buddle, C, and **Ziter, C.** 2014. Academic Blogging. Workshop for the Canadian Society for Ecology and Evolution, Science Communication Symposium. Genomes to/aux Biomes, Montreal, QC

**Ziter, C.** 2013. The effects of forest fragmentation on aboveground carbon stocks and tree diversity: A case study of the Montérégie, QC. Ecology & Evolution Lunchtime Seminar Series, McGill University, Montreal, QC

**Ziter, C,** Bennett, E., and Gonzalez, A. 2013. Functional diversity and management mediate aboveground carbon stocks in small forest fragments, Annual Meeting of the Quebec Centre for Biodiversity Science, Montreal, QC

**Ziter, C,** Bennett, E., and Gonzalez, A. 2013. Functional diversity and management mediate aboveground carbon stocks in small forest fragments. International Ecology Congress (INTECOL), London, UK

**Ziter, C,** Bennett, E., and Gonzalez, A. 2013. Functional diversity and management mediate aboveground carbon stocks in small forest fragments. Annual Meeting of the Ecological Society of America, Minneapolis, MN

**Ziter, C.** 2013. Using functional biodiversity metrics in forest ecology research. Workshop for the McGill tropical forest ecology women's working group, Montreal, QC

**Ziter, C,** Bennett, E., and Gonzalez, A. 2012. The effects of forest fragmentation patterns on carbon stocks and biodiversity in the Montérégie, QC (Speed Talk), Annual Meeting of the Quebec Centre for Biodiversity Science, Montreal, QC

**Ziter, C**, Bennett, E., and Gonzalez, A. 2012. The effects of forest fragmentation on carbon storage and biodiversity in the Montérégie, QC. McGill Biology Conservation, Ecology, Evolution and Behavior (CEEB) Symposium, Mont Saint Hilaire, QC

**Ziter, C**, and MacDougall, A.S. 2011. Consumer and Resource Driven Impacts on Root Dynamics and Carbon Sequestration in a Degraded Grassland Ecosystem. Ontario Biology Day 2011 (*Winner best talk in ecology/evolution/biodiversity*)

### **TEACHING AND MENTORING EXPERIENCE**

- 2017 Teaching Assistant, University of Wisconsin-Madison. Courses taught: Introductory Biology
- 2016 Teaching Assistant, University of Wisconsin-Madison. Courses taught: Biocore (Honours Ecology, Evolution, and Genetics)
- 2015-2016 Supervision of two undergraduate research assistants, Madison, WI
- 2015 Invited Panelist. ZOO335 The Biology and Philosophy of Human-Animal Relationships, Department of Zoology, University of Wisconsin Madison. *Environmental impacts of dietary choices*
- 2014 Teaching Assistant, University of Wisconsin-Madison. Courses taught: Introductory Biology
- 2012-2013 Teaching Assistant, McGill University. Courses taught: Population and Community Ecology, St. Lawrence Ecosystems (Field Ecology)
- 2013 Invited Panelist. GEOG460 Research in Sustainability, Department of Geography, McGill University. *Sustainability research project showcase*
- 2013 Guest lecture. ENVB305 Population and Community Ecology, Department of Natural Resource Sciences, McGill University. *Biodiversity, Connectivity, and Ecosystem Services in the Montérégie, QC.*
- 2012 Guest lecture. ENVS 1030 Intro to Environmental Sciences, School of Environmental Science, University of Guelph. *What to expect from graduate studies in ecology and environmental science*
- 2012 Supervision of 2 undergraduate summer research students, Montérégie, QC

### **PROFESSIONAL SERVICE**

- 2015 – now Reviewer: BioScience, Ecology and Society, Journal of Plant Ecology, Landscape Ecology, Nature Communications, SOIL, Urban Ecosystems, PLOS One
- 2015 – now International Network of Next Generation Ecologists (INNGE) Working Group member
- 2015 – 2016 President, University of Wisconsin-Madison Zoology Graduate Student Organization (ZGSO); responsible for running the ZGSO and serving as the graduate representative at faculty meetings

- 2015 Graduate student representative, Graduate Student Coordinator Hiring Committee, Department of Zoology, University of Wisconsin
- 2014 Volunteer, Genomes to/aux Biomes Conference, Montreal, QC
- 2012 – 2013 Organismal Seminar Graduate Representative, McGill Department of Biology; responsible for representing graduate student interests in the selection and hosting of weekly invited faculty speakers
- 2012 – 2013 Conservation, Ecology, Evolution and Behavior Seminar Representative, McGill Biology Graduate Student Association; responsible for organization and speaker recruitment for weekly student and post-doctoral seminars
- 2012 – 2013 Councilor, McGill Biology Graduate Student Association
- 2012 – 2013 Organizing Committee, Conservation, Ecology, Evolution and Behavior Graduate Student Symposium, McGill Department of Biology

### **OUTREACH ACTIVITIES**

- 2017 Invited speaker, La Follette High School “Madison’s Urban Heat Island”
- 2017 Invited speaker, UW-Madison Arboretum Science Day “When two invasive species meet: potential interactions between Asian jumping worms and common buckthorn”
- 2014-2016 Outreach volunteer, Wisconsin Science Festival, Wisconsin Institute for Discovery, Madison, WI. “Museum specimen and animal foraging games”
- 2016 Presentation to the UW-Madison Arboretum staff on invasive earthworm research
- 2016 Led a virtual discussion and demonstration on invasive species research to undergraduates in the Field Natural History of Maine class at the University of Maine
- 2016 Led a presentation and demonstration to participants in a “Forest Health” workshop at the UW-Madison Arboretum on invasive earthworm research
- 2016 Outreach volunteer, 2016 “Teen Science Cafés”: creating informal, authentic connections between scientists and students in the community
- 2015-2016 Outreach volunteer, Darwin Day 2015, J.F. Crow Institute for the Study of Evolution, Madison, WI. “Eat or be eaten: How animals find food in a dangerous world”.
- 2015 Outreach volunteer, Dane County Farm Technology Days, Sun Prairie, WI. “Wisconsin’s phosphorus legacy and the long road ahead.”
- 2015 Guest Instructor, University of Wisconsin-Madison Preschool Laboratory, Madison, WI. Co-developed and co-led a hands on ecology lesson for the “Week of the Young Child”.

- 2015 Invited Panellist, University of Wisconsin Madison Undergraduate Zoological Society. Theme: “What to expect in graduate school”.
- 2015 Outreach volunteer, 13<sup>th</sup> annual University of Wisconsin-Madison’s Science Expeditions, Health Sciences Learning Center, Madison, WI. “Museum specimen and animal foraging games”
- 2013 – 2014 Blogger, Jane Goodall Institute of Canada “Change is in you” blog. Wrote about ecosystem services, sustainability, and conservation issues
- 2014 Co-lead, Academic Blogging Workshop, Canadian Society for Ecology and Evolution. Interactive workshop at the Genomes to/aux Biomes conference on how and why to blog in an academic context (with Dr. Chris Buddle).
- 2014 Co-lead and project manager of science outreach project “Linking Action & Research on Sustainability”. A bilingual science communication initiative, funded through the McGill Office of Sustainability’s Sustainable Projects Fund (\$39 580), focusing on training and supporting McGill sustainability researchers in making short, dynamic videos about their research. (With Dr. Elena Bennett, Dr. Catherine Potvin).
- 2013 Social Media Coordinator and Project Manager of science outreach project “Montreal’s Ecosystems at your Service”. A bilingual science outreach and communication initiative, funded through the McGill Office of Sustainability’s Sustainable Projects Fund (\$30 000), using storytelling to connect Montrealers with nature.
- 2011-2013 Presenter, Let’s Talk Science, McGill University. Developed and presented over 10 talks and demonstrations for local schools and community groups on various scientific topics
- 2013 Panelist, Canadian Science Writers Association Annual Meeting, Montreal, QC. Co-led a discussion on ecosystem services research for conference participants.
- 2012 Invited speaker, Curieux de Nature lecture series at the Centre de la Nature du Mont Saint Hilaire. Public lectures about scientific research taking place around the Mont Saint Hilaire Nature Reserve.
- 2011 Participant, Students on Ice Antarctic Expedition (2011). Participated in during-expedition video blogging, and delivered several post-expedition educational presentations (K-12, University).

### **SELECTED MEDIA**

- 2016 Urban Ecosystem Services. Radio interview, EARTHSPEAK RADIO: WSUM ([link](#)) \*also played on WORT COMMUNITY RADIO ([link](#))
- 2016 Weather Bikes Stand Out In Urban Studies, Advance Science Dialogue. ENVIRONMENTAL MONITOR, by Daniel Kelly ([link](#))

- 2016 Worming their way into Wisconsin. ISTHMUS, by Doug Hansmann, Denise Thornton ([link](#))
- 2016 What a bicycle can tell us about the urban heat island. YAHARA IN SITU, by Jenny Seifert ([link](#)); \*also printed in UWMADSCIENCE ([link](#))
- 2016 When two invasive species meet. YAHARA IN SITU, by Jenny Seifert ([link](#))
- 2015 Green Plan. MCGILL REPORTER: HEADWAY, by Meaghan Thurston ([link – in English](#)) \* also printed in MCGILL REPORTER: EN TETE ([link – in French](#))
- 2014 La biodiversité inestimable de la vallée du Richelieu. LAURIER, by Saïd Mahrady ([link](#))

### **ADDITIONAL PROFESSIONAL EXPERIENCE, CONTRIBUTIONS, AND TRAINING**

- 2017 Bias and Diversity Training, University of Wisconsin-Madison
- 2017 Co-Organizer, Urban Ecology Symposium at the Canadian Society for Ecology and Evolution 2017 Annual Meeting, Victoria, BC
- 2017 Active Shooter Response Training, University of Wisconsin-Madison
- 2017 Participant, COMPASS Workshop: Communicating your Science, University of Wisconsin-Madison, Madison, WI
- 2017 Diversity and Inclusivity Training for Teaching Assistants, University of Wisconsin-Madison
- 2016 Invited Speaker, “Strategies for securing grants as a student”, Ecological Society of America Annual Meeting, Fort Lauderdale, FL
- 2016 Invited Participant, National Geographic Storytelling Bootcamp, University of Wisconsin-Madison, Madison, WI
- 2015 Participant, Data Carpentry Workshop, University of Wisconsin-Madison, Madison, WI
- 2014 Co-Organizer, Science Communication Symposium at the Canadian Society for Ecology and Evolution 2014 Annual Meeting, Montreal, QC
- 2014 Ecosystem Service Analyst, Environment Canada, National Wildlife Research Centre, Landscape Science and Technology Division, Ottawa, ON
- 2013 Research Technician, McGill University, Montreal, QC
- 2012 Biodiversity Science Intensive Course, Quebec Center for Biodiversity Science, Mont St. Hilaire, QC
- 2010/11 Field Assistant (Summer 2010/2011), University of Guelph and Cowichan Garry Oak Preserve, Vancouver Island, BC
- 2008/09 Laboratory and Field Assistant (Summer 2008/2009), Great Lakes Institute for Environmental Research, University of Windsor, Windsor, ON



**PROFESSIONAL AFFILIATIONS**

The Long-Term Ecological Research Network (LTER)

Ecological Society of America (ESA)

Canadian Society for Ecology and Evolution (CSEE)