

Rebecca K. Tonietto
Assistant Professor
University of Michigan - Flint
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Education

- 2015 **PhD**, Plant Biology and Conservation, Northwestern University and Chicago Botanic Garden, Dissertation: *Effects of habitat restoration on wild bee communities*. Advisor: Daniel J. Larkin
- 2009 **MS**, Plant Biology and Conservation, Northwestern University and Chicago Botanic Garden, Thesis: *Chicago bees: Green roofs, parks and prairies*. Advisor: Jeremie B. Fant.
- 2005 **BA**, Biology, Kalamazoo College, Thesis: *The bluegill sunfish (Lepomis macrochirus) affects successful insect colonization through predation and competition*. Advisors: Erica A. Garcia, Ann M. Fraser.

Professional appointments

- 2017 – present Assistant Professor, Department of Biology, University of Michigan - Flint
- 2015 – 2017 David H. Smith Conservation Research Postdoctoral Fellowship, Saint Louis University. Project title: *Urban bee community structure, pollination services and conservation across shrinking cities of North America*. Mentors: Gerardo R. Camilo, Kelly Garbach, Michael Arduser, Paul H. Gobster.

Scholarly work

Peer-reviewed publications mentored undergraduate

- Portman, Z.M., S.J. Burrows, T. Griswold, M. Arduser, A.J. Irber, **R.K. Tonietto**, and D.P. Cariveau. 2019. First records of the adventive *Pseudoanthidium nanum* (Moscáry) (Hymenoptera: Megachilidae) in Illinois and Minnesota, with notes on its identification and taxonomy. *The Great Lakes Entomologist*. 52(1).
- McDonough MacKenzie, C., S. Kuebbing, R.S. Barak, M. Bletz, J. Dudney, B.M. McGill, M.A. Nocco, T Young, **R.K. Tonietto***. 2019. We do not want to “cure plant blindness” we want to grow plant love. *Plants People Planet*. 1(3):139-141.
<https://doi.org/10.1002/ppp3.10062>

*denotes corresponding/senior author

- Tonietto, R.K.** and D.J. Larkin. 2018. Habitat restoration benefits wild bees: A meta-analysis. *Journal of Applied Ecology*. 55:582 – 590.
- Tonietto, R.K.**, J.S. Ascher and D.J. Larkin. 2017. Bee communities along a prairie restoration chronosequence: similar abundance and diversity, distinct composition. *Ecological Applications*. doi: 10.1002/eap.1481 ([pdf](#)).
- Hall, D.M., G.D. Camilo, **R.K. Tonietto**, J. Ollerton, K. Ahrné, M. Arduser, J. Ascher, K.C.R. Baldock, R.E. Fowler, G.W. Frankie, D. Goulson, B. Gunnarsson, M.E. Hanley, J.I. Jackson, G. Langellotto, D. Lowenstein, E.S. Minor, S.M. Philpott, S.G. Potts, M.H. Sirohi, E.M. Spevak, G. Stone and C. Threlfall, C. 2016. The city as a refuge for insect pollinators. *Conservation Biology*. doi: 10.1111/cobi.12840 ([pdf](#)).
- DiPalma, A., and 74 others including **R.K. Tonietto**. 2016. Predicting bee community responses to land-use changes: Effects of geographic and taxonomic biases. *Scientific Reports*. 6, Article number: 31153 ([open access](#)).
- Larkin, D.J., A.L. Hipp, J. Kattge, W. Prescott, **R.K. Tonietto**, S.K. Jacobi and M.L. Bowles. 2015. Phylogenetic measures of plant communities show long-term change and impacts of fire management in tallgrass prairie remnants. *Journal of Applied Ecology*. 52:6, 1638-1648 ([pdf](#)).
- Hudson, L. and 327 others including **R.K. Tonietto**. 2014. The PREDICTS database: a global database of how local terrestrial biodiversity responds to human impacts. *Ecology and Evolution*. 4:24, 4701-4735 ([open access](#)).
- Ksiazek, K., **R.K. Tonietto** and J.S. Ascher. 2014. Ten bee species new to green roofs in the Chicago area. *The Great Lakes Entomologist*. 47, 87-92 ([pdf](#)).
- Tonietto, R.K.**, J.B. Fant, J.S. Ascher, **K. Ellis**, and D.J. Larkin. 2011. A comparison of bee communities of Chicago green roofs, parks and prairies. *Landscape and Urban Planning* 103, 102-108 ([pdf](#)).
- Tonietto, R.K.** and J. Ascher. 2009. Occurrence of the Old World bee species *Hylaeus hyalinatus*, *Anthidium manicatum*, *Anthidium oblongatum*, *Megachile sculpturalis*, and the native *Coelioxys banksi*, in Illinois (Hymenoptera: Apoidea: Colletidae, Megachilidae). *The Great Lakes Entomologist*. 41, 201-203 ([pdf](#)).

Book sections

Jafri, J., G.H. Lyon, S. Madziar, and **R.K. Tonietto**. Project Exploration's Environmental Adventurers: Amplifying Urban Youth Agency, Identity and Capacity with Mobile Technology. *Mobile Media Learning: Innovation and Inspiration*. ETC Press. 145-156 (2014). (http://press.etc.cmu.edu/files/Mobile-Media-Learning_Holden-Dikkers-Martin-Litts-et-al-web.pdf)

Symposia and keynote addresses

Invited talks in peer-reviewed, organized sessions.

- 2019 The Origin Story of Plant Love Stories. Ecological Society of America. Louisville, KY. August 14. *
- *Speaker, co-organizer and panelist for organized ignite session "Plant Love Stories"*
- The value of cities in pollinator conservation: Steps to support our native bees. Janet Meakin Poor Research Symposium. Chicago Botanic Garden. June 22.
- From community outreach to community-engaged research: The Porch Project in Flint, Michigan. Pacific Northwest Pollinator Summit and Conference. Corvallis, Oregon. February 15. **Keynote address.**
- Why cities matter for pollinator conservation: Lessons learned from a decade of research on wild bees in the Midwest. The 26th Annual Ecology and Evolutionary Biology Spring Symposium at Iowa State University. Ames, Iowa. February 9. **Keynote address.**
- 2018 Wild bee conservation in cities and why it matters*. North American Congress for Conservation Biology (NACCB). Toronto, Ontario. July 25.
- *Speaker, co-organizer and session leader for symposium "Conserving wild bees in urban habitats: Research, policy and implementation."*
- Urban Agriculture supports diverse wild bee communities in Detroit, Michigan. US Regional Association of the International Association for Landscape Ecology (US-IALE). Chicago, Illinois. April 1.
- 2015 Does restoring the prairie restore the bees? Exploring bee community outcomes along a prairie restoration chronosequence. The Chicago Plant Science Symposium, The Field Museum, Chicago, IL. April 19.
- 2013 Updates from Field and Lab: Some recent projects conducted as part of the Chicago Wilderness Science Team's research programs. Wild Things: A Chicago Wilderness conference for people and nature. University of Illinois at Chicago. Chicago, IL. February 2.
- 2012 Chicago Wilderness land management research program. Chicago Wilderness Congress. University of Illinois at Chicago, Chicago, IL. November 15.
- 2011 The ethics of conservation. Speaker and panelist at the Chicago Regional Forum on Ethics and Sustainability – Lifeways and Greenways: Social and Ecological

Connectivity, a Janet Meakin Poor Research Symposium. Chicago Botanic Garden. Glencoe, IL. October 28.

- 2010 Native bees of the Chicago region. Modern beekeeping: the challenge and importance of diversity. Garfield Park Conservatory, Chicago, IL. November 20.

Conference presentations (presenting author only)

Peer-reviewed abstracts for talks and posters at conferences.

- 2019 Heyza, M and RK Tonietto (co-presenters). The Porch Project: Supporting resident-led initiatives on Flint's Eastside through partnerships. Building Michigan Communities Conference. April 30. Lansing, MI. *Oral presentation.*
- 2018 **Tonietto RK**, P Muñiz and G Camilo. Urban farms and community gardens support bumblebees in shrinking cities. Protecting Pollinators in Urban Landscapes conference. October 10. Traverse City, MI. *Poster presentation.*
- 2017 **Tonietto, R.K.** P. Muñiz, K. Garbach, M. Arduser, D. Hall, P. Gobster and G. Camilo. Urban agriculture supports diverse wild bee communities in Detroit, St. Louis, and Chicago. A social science and ecological approach. Ecological Society of America Annual Conference. August. Portland, OR. *Oral presentation.*
- Tonietto, R.K.** and D.J. Larkin. 2017. Habitat restoration benefits wild bees: A meta-analysis. Society for Ecological Restoration Midwest Great Lakes Chapter. Grand Rapids, MI. March 25. *Oral presentation.*
- 2016 **Tonietto, R.K.**, D.J. Larkin. 2016. How does habitat restoration affect wild bees? A meta-analysis. North American Congress for Conservation Biology. Madison, WI. *Poster presentation.*
- 2015 **Tonietto, R.K.**, G.D. Camilo. 2015. Trends in bee communities of shrinking cities from taxonomic and functional perspectives. Ecological Society of America. Baltimore, MD. *Oral presentation.*
- Tonietto, R.K.**, D.J. Larkin. 2015. The changing composition of bee communities along a tallgrass prairie restoration chronosequence. Wild Things: A Chicago Conference for People and Nature. Glencoe, IL. *Oral presentation.*
- *Award - Best Graduate Student Presentation**
- 2014 **Tonietto, R.K.**, D.J. Larkin. 2014. The effects of tallgrass prairie restoration on native bee communities. Ecological Society of America. Sacramento, CA. *Oral presentation.*
- 2009 **Tonietto, R.K.**, Bee Hunt! 2009. A scientific study on the impact of climate change on plant-pollinator interactions, distributions, and seasonal abundances Janet Meakin Poor Research Symposium, Glencoe, IL. *Poster presentation.*
- Tonietto, R.K.**, K. Ellis, C. Askham and J.B. Fant. 2009. A comparison of bee communities on green roofs to city parks and restored prairies. Janet Meakin Poor Research Symposium, Glencoe, IL. *Poster presentation.*

- 2008 **Tonietto, R.K.**, J.B. Fant, K. Ellis, C. Askham. 2008. Urban native bees: From remnant prairies to rooftop gardens; pollinator communities within the greater Chicago region. Ecology and Evolution of Plant-Pollinator Interactions Conference, Milwaukee, WI. *Poster presentation.*
- Tonietto, R.K.**, J Fant, K. Ellis, C. Askham. 2008. Urban native bees: From remnant prairies to rooftop gardens; pollinator communities within the greater Chicago region. Ecological Society of America Conference, Milwaukee, WI. *Poster presentation.*
- 2007 **Tonietto, R.K.**, J.B. Fant, and A.T. Kramer. 2007. Geographic variation in plant-pollinator interactions. Ecological Society of America/Society for Ecological Restoration joint meeting. San Jose, CA. *Oral presentation.*
- 2006 **Tonietto, R.K.**, J.B. Fant and A.T. Kramer. March 2006. Intra-specific differences in *Penstemon* floral morphology. Midwest Ecology and Evolution Conference. St. Louis, MO. *Poster presentation.*
- 2005 **Tonietto, R.K.**, and E. Garcia. 2005. The bluegill sunfish (*Lepomis macrochirus*) affects successful insect colonization through predation and competition. Diebold Symposium. Kalamazoo College, Kalamazoo, MI. *Oral presentation.*
***Award – Diebold Scholar Award for presentation excellence**
- 2004 **Tonietto, R.K.**, and E. Garcia. 2005. The bluegill sunfish (*Lepomis macrochirus*) affects successful insect colonization through predation and competition. Midstates Consortium for Math and Science Undergraduate Research Symposium. University of Chicago, Chicago, IL. *Poster presentation.*

Invited talks and departmental seminars

- 2019 Pollinator conservation in, of, and *for* the city: achieving multiple goals through community-engaged research. REU Symposium **Keynote speaker**, Kettering University. Flint, MI. August 16.
- Cross pollination: Pollinator conservation as community outreach in shrinking cities of the Midwest. Department of Entomology, Iowa State University. Ames, IA. February 11.
- 2018 Urban agriculture supports diverse wild bee communities in shrinking cities: A tale from the Rust Belt. University of Michigan Biological Station. Pellston, MI. August 9.
- From green roofs to urban farms: The importance of cities for pollinator conservation. University of Michigan Biological Station. Pellston, MI. August 8.
- City bees of Chicago, Detroit, and Flint: How native bee conservation and urban re-greening to hand in hand. Department of Entomology, The Ohio State University. Columbus, OH. March 27.
- 2017 If we build it, will they come? Supporting diverse native bee communities through ecological restoration and urban habitat enhancements. Recent Advances in Biology Lecture Series. Lawrence University, Appleton, WI. November 13.

If we build it, will they come? Supporting diverse native bee communities through ecological restoration and urban habitat enhancements, Oakland University, Rochester Hills, MI. February 7.

- 2014 Does restoring the prairie restore the pollinators? An investigation into the effects of tallgrass prairie restoration on native bee communities, Saint Louis University, St. Louis, MO. September 7.
- 2012 The effects of tallgrass prairie restoration on native bee communities, Morton Arboretum, Lisle, IL. December 20.

Grants, fellowships and awards

2019	The Michigan Plaque, Keep Michigan Beautiful Undergraduate Research Opportunities Program, UM-Flint (4 awards)	\$2,000
2018	Research and Creative Activity Committee award, UM-Flint	\$20,000
	Summer Undergraduate Experience, UM-Flint, C.S. Mott Foundation	\$4,000
	Undergraduate Research Opportunities Program, UM-Flint (3 awards)	\$1,500
	International Travel Award, UM-Flint	\$1,166
2015 – 2017	David H. Smith Postdoctoral Conservation Research Fellowship	\$155,000
2014	Plant Biology and Conservation Travel Award, Northwestern	\$500
2012–2014	Presidential Fellowship, Northwestern University	\$85,152
2012	Plant Biology and Conservation Research Award, Northwestern	\$1,000
2010	Plant Biology and Conservation Research Award, Northwestern	\$1,500
	Garden Club of America Fellowship in Ecological Restoration	\$8,000
	Prairie Biotic Research Grant	\$1,000
2008	Plant Biology and Conservation Travel Award, Northwestern	\$500
	Plant Biology and Conservation Research Award, Northwestern	\$1,000
	Prairie Biotic Research Grant	\$1,000
2007 – 2008	Shaw Fellowship, Northwestern	\$20,000
2005	Diebold Scholar Award, Kalamazoo College	

Professional development, experience, and training

- 2019 Diversity, Equity, Inclusion and Justice Training, The Raben Group, Hilo, HI
- 2017 Unconscious Bias and Equity, Inclusion, and Diversity Workshop, The Raben Group, Baraboo, WI
- Midwestern Bee Ecology and Identification Workshop, Mike Arduser, Missouri Department of Conservation, Saint Louis University, St. Louis, MO

- Facilitation Training, Dovetail Consulting, Detroit, MI
Social Science in Conservation Workshop, Smith Fellows Retreat, Detroit, MI
Data Visualization Workshop, Smith Fellows Retreat, Detroit, MI
- 2016 Leadership Training, Smith Fellows Retreat, Adirondacks, NY
Supporting Beneficial Insects with Flowering Plants, Michigan State University
Agriculture and Natural Resources Extension, Clarksville, MI
Policy for Scientists, Smith Fellows Retreat, Washington D.C.
Media Training, Intermedia Communications, Washington D.C.
Diversity in Ecological Science Workshop, Smith Fellows Retreat, Boulder, CO
- 2014 – 2015 Project assistant, Plant phylogenetic assessment of restored and remnant prairies,
Chicago Botanic Garden, Glencoe, IL
- 2014 Getting out of the classroom, teaching through civic engagement and service
learning, Searle Center, Northwestern University, Evanston, IL
Building Bridges: Fostering community in the Classroom. Searle Center,
Northwestern University, Evanston, IL
- 2012 Project assistant, Dixon National Tallgrass Prairie Seed Bank, Chicago Botanic
Garden, Glencoe, IL
- 2011 Project assistant, Project BudBurst, Chicago Botanic Garden, Glencoe, IL
- 2010 Project assistant, Insect database development, Chicago Botanic Garden, Glencoe,
IL
- 2009 Structural equation modeling workshop. University of Michigan, Ann Arbor, MI
- 2008 The Bee Course. American Museum of Natural History, Portal Research Station.
Tucson, AZ
- 2005 – 2009 Research assistant, Chicago Botanic Garden, Glencoe, IL
- 2005 Research assistant, Princeton University, Princeton, NJ
- 2004 Research assistant, Michigan State University, Kellogg Biological Station,
Hickory Corners, MI

Teaching experience

Courses taught

University of Michigan – Flint

BIO 111 - Introduction to Organismal Biology

Lead instructor of lecture: Winter 2018, 2019

Lab instructor: Fall 2017 (1 section), Fall 2018 (2 sections)

BIO 327 - Ecology

Lead instructor of lecture: Winter 2018, Fall 2018, 2019

Lab instructor: Fall 2017 (1 section), Winter 2018 (1 section), Fall 2019 (1 section)

BIO 459/559 – Plant-Animal Interactions

Lead instructor: Winter 2019

Northwestern University

BIOL_SCI 349/PBC 402 - Plant Community Ecology

Co-designed and co-taught with Daniel Larkin, Spring 2014

Pedagogical grants

2018 Spring/summer course redesign fellowship, Thompson Center for Teaching and Learning, University of Michigan-Flint.

A collaborative effort between all core BIO 111 instructors (Heather Dawson, Danielle Potts, Teresa Yoder-Nowak and myself) to provide spring/summer stipend support for re-design efforts. This grant allowed for revision of nearly half of the BIO 111 curricula, including lectures and labs.

Professional development and workshops related to teaching

2014 – 2015 Graduate Teaching Certificate Program, Searle Center for Advancing Teaching and Learning, Northwestern University

Teaching assistant

University of Michigan-Flint

2017 **Introduction to Organismal Biology (BIO 111)**

Volunteered as lab assistant during my first semester to be as best prepared as possible to run my own lab section and to understand role and responsibilities of my undergraduate lab assistants. Assisted with set-up and tear-down, guided students through lab, and answered questions.

Northwestern University

- 2010 **Field Ecology (BIOL_SCI 346)**
Plant identification leader and guide on weekly field trips for outdoor component, grading, office hours.
- Physiology and Cell Biology with lab (BIOL_SCI 210)**
Independently ran two lab sections, graded lab reports and exams, office hours.
- 2009 **Plant Biology (BIOL_SCI 330)**
Oversaw and graded student field journals containing weekly observations, grading, office hours.

Kalamazoo College

- 2005 **Neurobiology with lab (BIOL 350)**
Assisted with lab dissections, activities, and lab practical exam.

Guest lectures

- 2019 **Biology in Society (BIOL 191), Kettering University**
Pollinator conservation in, of, and *with* the city: achieving multiple goals through community-engaged research
- 2018 **Wildlife Ecology and Management (BIO 423/523), University of Michigan-Flint**
Managing species that provide ecosystem services, environmental filtering, and the importance of community buy-in for conservation success.
- 2011 **Intro to Environmental Science (ENV 102), DePaul University**
Reconciliation Biology: Conservation biology in anthropogenic habitats (lecture and field activity).

Mentoring

Graduate students

- 2017 – present Dalton Sink University of Michigan-Flint
Thesis: Effects of nitrifying bacteria in limiting cyanobacteria growth in freshwater
Role: Committee member

Undergraduate students

- 2019 – 2020 Megan Cate University of Michigan – Flint, UROP
Fall 2019
Project: The Porch Project

- Blake Pagnier University of Michigan – Flint, UROP
Fall 2019
Project: University of Michigan-Flint Herbarium Digitization
- Shelby Lane University of Michigan – Flint, UROP
Independent study, scientific illustration
Fall 2019
Project: Pollen library development, BIO 111 lab manual illustration project.
- Kayla Massaro University of Michigan – Flint, honors thesis
Thesis: TBD. Working title “Wuppertal group proposal”
- Samantha Torres University of Michigan – Flint, UROP
Fall 2019
Project: University of Michigan – Flint Herbarium Digitization
- Sydney VanWormer University of Michigan – Flint, honors thesis
Thesis: TBD. Working title “Wuppertal group proposal”
- 2018 – 2019 Mitchell Aikens University of Michigan-Flint
Winter 2019
Project: Extraction of menthols from spearmint plants
- Samantha Blouir University of Michigan – Flint, UROP
Winter 2019
Project: Prairie Plot Experiment
Seed cleaning and measurements of 10 prairie plant species from long-term research site at The Morton Arboretum
- Megan Cate University of Michigan – Flint, RCA undergraduate student hire and UROP
Spring - Fall 2018, Winter 2019
Project: The Porch Project
Individualized research project: The effects of residential garden sun and shade location on pollinator visitation rate
- Shelby Lane University of Michigan – Flint, UROP
Fall 2018, Winter 2019
Project: The Porch Project & Prairie Plot Experiment
Individualized research project: Foraging preferences of native and non-native *Hyla* spp. on native and non-native forbs.

	Kayla Massaro	University of Michigan – Flint, honors thesis <i>Thesis: TBD. Working title “Wuppertal group proposal”</i>
	Blake Pagnier	University of Michigan – Flint, UROP Winter 2019 <i>Project: The Prairie Plot Experiment</i> Seed cleaning protocols and measurement techniques. Germination trials.
	Carly Wykes	University of Michigan – Flint, honors thesis <i>Thesis: TBD. Working title “Wuppertal group proposal”</i>
	Amanda Zuelke	University of Michigan – Flint, UROP Fall 2018 – Winter 2019 <i>Project: Prairie Plot Experiment</i> Pollinator observations and field data collection, data entry and organization.
2017 – 2018	Megan Cate	University of Michigan – Flint, UROP Winter 2018 <i>Project: The Porch Project</i> Development of plant lists, pricing of flowers and equipment for summer field work. Mapping of potential residences.
	Amanda Zuelke	University of Michigan – Flint, UROP, SURE <i>Project: Insect database and data entry and the Prairie Plot Experiment</i>
2016 – 2017	Emma Tardiff	Kalamazoo College, senior thesis <i>Thesis: Wild bee pollination service to urban agriculture in Detroit, Michigan</i>
	Nick Olsen	DePaul University, summer research experience mentor
	Kristian Williams	Southern Illinois University, summer research experience mentor
2012 – 2013	Hannah King	Stanford University, REU, senior thesis * Awarded best all-around presentation at REU symposium <i>Thesis: Bee abundance as a function of floral abundance: A potential bias of fluorescent pan traps</i>
2011 – 2012	Thea Klein-Mayer	Northwestern University, senior thesis

- Thesis: A comparison of bumblebee (Apidae, Bombus) species diversity at managed and unmanaged Illinois prairie sites*
- Lisa Mithun Northwestern University, senior thesis
Thesis: Assessing the effect of restoration history and farming history on forb community composition in tallgrass prairie
- 2010 - 2011 Jackie Beard Northwestern University, senior thesis
Thesis: Assessing the impact of surrounding land use on bee communities on Chicago's green roofs
- Bridgette Moen University of Illinois at Urbana-Champaign, Chicago Botanic Garden NSF REU mentor
Project Title: Investigating bee bowl color in prairie habitats
- 2008 - 2009 Christine Askham Gustavus Adolphus College, Chicago Botanic Garden REU
Project Title: Comparing native bee pollinators of two common wildflowers in parks and prairies of the Chicago Wilderness region
- Ashley Debo Lake Forest College, biology course research project
Project Title: Using biophysical collections to inform field observation codes for bees
- Jessica Disch Lake Forest College, biology course research project
Project Title: Using biophysical collections to inform field observation codes for bees
- Katie Ellis Kalamazoo College, senior thesis
Thesis: Effects of landscape structure, habitat type and flower density on bee abundance within the Chicago Wilderness Region
*Awarded senior thesis research honors
- Bia Siddiqui Lake Forest College, biology course research project
Project Title: Using biophysical collections to inform field observation codes for bees
- High school students*
- 2010 – 2013 Kristian Williams Project Exploration (A Chicago non-profit dedicated to empowering and mentoring underrepresented youth through STEM out-of-school-time experiential programming)

2012	Ida Harden	College First (Chicago Botanic Garden research program for underrepresented high school students)
2010	Octavio Brindis	Hire4Ed (Paid internship program for underrepresented high school students)
2009	Xiaobo Zhang	College First
2007 – 2008	Oscar Herrera	College First

Service

Program service

University of Michigan - Flint

- 2017 – 2018 Organized Wildlife Faculty meetings (Fall semester).
Teaching mentor for Courtney Higgins, GSA in BIO 111 (Winter semester)

Northwestern University

- 2010 – 11 Plant Biology and Conservation program representative to the Graduate Student Association.
2008-09 Journal club leader for Plant Biology and Conservation program.

Departmental service

University of Michigan - Flint

- 2019 – 2020 Chair, ad-hoc Greenhouse Committee
2018 – 2019 Cell Biology search committee member
2017 – 2018 Volunteer lab assistant, Introduction to Organismal Biology (BIO 111)
Development of recommended updates to departmental syllabi to include Title IX and anti-discrimination language in partnership with UM-Flint Title IX officer.

College service

University of Michigan - Flint

- 2019 - 2020 Scholarship committee member:
Fleming A. and Marian E. Barbour Scholarship
Eugene W. Geniesse, Sr. Science Scholarship
Zelpha McKinnon Science Scholarship

2018 GEMS (Girls in Engineering Math and Science) summer camp activity leader

University service

University of Michigan

2019 – 2020 Co-lead of Biosequestration Internal Analysis Team for the President's Commission for Carbon Neutrality
<http://graham.umich.edu/events/pccn-comm-forum>

2018 Research Fundamentals Workshop: Community-engaged research
The Porch Project in Flint, MI: *Joint presentation with my community partner, Megan Heyza, executive director and founder of the Eastside Improvement Association.*

Professional service

Peer review

Ecology, Frontiers in Ecology and the Environment, Great Lakes Entomologist, Israel Journal of Ecology and Evolution, Journal of Applied Ecology, Landscape and Urban Planning, PeerJ, Restoration Ecology, Sustainability, Urban Ecosystems

Grant review

National Science Foundation, Faculty Early Career Development Program (CAREER)

Community service relevant to profession

2019 Workshop: Making a bee habitat. Chicago Botanic Garden, Glencoe, IL. June 22.
ABC's of Native Bees. Keep Growing Detroit Beekeeping Course. Detroit, MI. June 15.

Save the Bees. Explorathon. Cranbrook Kingswood Academy. Bloomfield Hills, MI. March 20. *Three presentations for classrooms of middle school girls to learn more about careers and women in STEM.*

2018 For-Mar Nature Preserve BioBlitz. Booth and lesson plans about native pollinators for K – 8th graders. For-Mar Nature Preserve. Burton, MI. September 28.

Eastside Franklin Park pollinator garden workday to build trails. Eastside Franklin Park Neighborhood Association. Flint, MI. September 8.

Botanical BioBlitz at Spring Grove Park managed by Flint Tool and Dye and The Grand Traverse Neighborhood Organization. *In collaboration with Dr. Heather Dawson and undergraduate UROP student Megan Cate.* August 14.

ABC's of Native Bees. Keep Growing Detroit Beekeeping Course. Detroit, MI. June 16.

- Bees of the Metro-Detroit region: Attracting and recognizing native pollinators. Troy Garden Club, Troy, MI. May 9.
- 2017 Inventory planning meetings at Spring Grove park managed by Flint Tool and Dye and The Grand Traverse Neighborhood Organization.
- Development of bee specimen voucher collection for DeToro Lab at Lawrence University. (September 2017 – March 2018).
- Wild Pollinators in the City. Consulting and development of youth science engagement program using pollinator collection in partnership with Melissa Siska. Notebaert Nature Museum, Chicago, IL. (September 2017 – March 2018).
- Birds and the Bees, native bee display and interactive table, family all-day event for Valentine’s Day programming at the Belle Isle Nature Zoo
- 2016 Bee Fest, native bee display and interactive table for family all-day event at the Belle Isle Nature Zoo, Detroit, MI. August 20.
- Bees of the Metro-Detroit region: Attracting and recognizing native pollinators. Master Gardener Society of Oakland County, Bloomfield Hills, MI. June 14.
- 2015 Bees of the Chicago Region: Attracting native pollinators. Cook County Master Gardeners, Chicago, IL. February 24.
- 2014 Bees of the Chicago Region: Attracting native pollinators.
- University of Illinois Extension, Joliet, IL. August 19.
 - Highland Park Garden Club, Highland Park, IL. April 21.
 - Midewin National Tallgrass Prairie, Wilmington, IL. March 27.
- 2012 Bill Gates Millennium Scholarship essay writing workshop, Sullivan High School. Chicago, IL. November 13.
- What do ecologists do? Afternoon outdoor classroom presentation, Pleasant Valley Youth Camp, Woodstock, IL. August 6.
- Environmental Adventurers Curriculum development and team teacher for a week-long high school science education program with Project Exploration. Chicago, IL. July 30 – August 3.
- Native bee question and answer session after Queen of the Sun screening, Ryerson Woods Nature Center. Deerfield, IL. January 19.
- 2011 Bees of the Chicago Region: Attracting native pollinators.
- Wild Ones, North Park Village Nature Center. Chicago, IL. August 11.
 - Lake Forest Open Lands summer interns. Elwa Farm, Lake Forest, IL. June 6.
 - Chicago Flower and Garden Show. Navy Pier. Chicago, IL. March 5 – 13.
 - The 19th Annual Natural Landscaping Seminar, Wildflower Preservation and Propagation Committee. Crystal Lake, IL. February 26.

Sisters4Science, Project Exploration. After school presentation and workshop on the scientific method, and how to make informed observations for middle school girls. Barbara A. Seizmore Academy. Chicago, IL. October 20.

Bee Hunt! An outdoor activity for observing and recording native pollinators. Eastview Elementary School Earth Club, Algonquin, IL. August 29.

The buzz about bees. Midwest Center for Talent Development Awards Ceremony guest speaker, Northwestern University, Evanston, IL. June 4.

Bee Smart! A bit about native bees of Illinois. McHenry County Defenders. Summer newsletter.

- 2010
- The ABC's of our Native Bees. World Environment Day. Chicago Botanic Garden, Glencoe, IL. June 5.
- Natural history and habitat needs of native bees.
- Chicago Botanic Garden Fruit and Vegetable Garden volunteers, Glencoe, IL. July 31.
 - Joseph Regenstein Jr. School of the Chicago Botanic Garden, Glencoe, IL. May 17.
- Bee Hunt! A presentation to Chicago area K-12 teachers to introduce a student citizen science project. Chicago Botanic Garden. Glencoe, IL. February 19.
- 2009
- Lake Forest Openlands board of directors meeting presentation on the current state of the West Skokie Preserve bee community. Lake Forest, IL. September 11.
- Sustainable cities: The importance of green roofs. Society of Women Engineers, Summer Technology and Engineering Program (STEP). A three-day summer workshop for middle school girls interested in science and engineering. Northwestern University, Evanston, IL. June 15 – 17.
- Bee Smart! Learn more about native bees. A booth at World Environment Day. Chicago Botanic Garden. Glencoe, IL. June 4.
- Sisters4Science, Project Exploration. After school presentation and workshop on the botany of common fruits and vegetables for middle school girls. Young Women's Leadership Charter School, Chicago, IL. March 16.
- Sisters4Science, Project Exploration. After school presentation and workshop on dichotomous keys and beginning insect taxonomy for middle school girls. Young Women's Leadership Charter School, Chicago, IL. March 9.
- 2008
- Sisters4Science, Project Exploration. After school presentation and workshop on pollination biology for middle school girls. Barbara A. Seizmore Academy, Chicago, IL. December 17.
- Catch the Reading Bug. Presentation to K-5 students and their parents on insect identification and fun facts. Evanston Public Library, Evanston, IL. July 2.

2001-05 Sisters in Science, Kalamazoo College. After school programs with girls in Kalamazoo Public Schools, Kalamazoo, MI. Various dates.

Media Coverage and interviews

2019

- 2018 Guest on In Defense of Plants podcast. October 14.
<http://www.indefenseofplants.com/podcast/2018/10/14/ep-182-city-bee-diversity>
UM-Flint professor teams up with block association for The Porch Project. UM-Flint News by Robert Gold. August 6.
<https://news.umflint.edu/2018/08/06/um-flint-professor-teams-up-with-block-association-for-the-porch-project/>
- 2017 Urban refuge: How cities can help rebuild declining pollinator populations. Yale Environment 360 by Janet Miller. November 9.
<https://e360.yale.edu/features/urban-refuge-how-cities-can-help-rebuild-declining-bee-populations>
- 2016 Scientists show cities can serve as a refuge for insect pollinators. PHYS ORG by Alan Williams. September 30.
<http://phys.org/news/2016-09-scientists-cities-refuge-insect-pollinators.html>
Shrinking Cities – a Refuge for Bees: 5 Questions for Dr. Rebecca Tonietto. THE HUFFINGTON POST by Tim Ward. February 16.
http://www.huffingtonpost.com/tim-ward/shrinking-cities-refuge_b_9239128.html
Wild bees meet urban farming, *invited guest on* It's Hot In Here, MICHIGAN PUBLIC RADIO, WCBN-ANN ARBOR. June 3.
<http://www.hotinhere.us/podcast/buzzfeed-wild-bees-meet-urban-farming/>
- 2013 The Academic Decline: How to Train the Next Generation of Botanists, US NEWS AND WORLD REPORT by Allie Bidwell. November 12.
<http://www.usnews.com/news/articles/2013/11/12/the-academic-decline-how-to-train-the-next-generation-of-botanists>
Conservation. MAKE IT BETTER, by Laura Hine. March issue
<https://issuu.com/makeitbetter/docs/march13digital>
- 2012 EcoMyths: Native Pollinators, *invited guest on* Worldview, CHICAGO PUBLIC RADIO, WBEZ. October 29.
<https://www.wbez.org/shows/wbez-news/economyths-native-pollinators/07c5b84a-a07e-44a5-8e93-5352486be6f8>
The Bee Chronicles 3: Are All Bees Dying? ECOMYTHS, article by Daisy Simmons and accompanying video podcast interview by Cliff Miller. October 29.
<https://ecomyths.org/2012/10/29/the-bee-chronicles-3-are-all-bees-dying/>

The Bee Chronicles 2: Pollination Nation, ECOMYTHS, article by Daisy Simmons and accompanying video podcast interview by Cliff Miller. October 19
<https://ecomyths.org/2012/10/19/the-bee-chronicles-2-pollination-nation/>

The Bee Chronicles 1: There's a Bee in My Bonnet, ECOMYTHS article by Daisy Simmons and accompanying video podcast interview by Cliff Miller. October 8.
<https://ecomyths.org/2012/10/08/the-bee-chronicles-part-one/>

Hear the Buzz On Native Bees in Mundelein. LAKE COUNTY DAILY HERALD, by Lake-to-Prairie Chapter of Wild Ones. September 28.
<http://www.dailyherald.com/article/20120926/submitted/709269807/>

2011 How to build a bee condo. Chicago Botanic Garden video podcast. February 23.
<https://www.youtube.com/watch?v=HWv3HrVoXZs>

Professional societies

Ecological Society of America
Society for Ecological Restoration
Midwest Great Lakes Chapter Society for Ecological Restoration
Society for Conservation Biology – Honorary Lifetime Member