

## MATTHEW L. RICHARDSON

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### EDUCATION

- *Ph.D. in Ecology, Evolution, and Conservation Biology*, University of Illinois at Urbana-Champaign (UIUC), 2009
- *M.S. in Natural Resources and Environmental Sciences*, University of Illinois at Urbana-Champaign, 2005
- *B.S. with Distinction in Entomology with a concentration in Wildlife Conservation*, University of Delaware (UD), Newark, DE, 2002
- *B.A. in Biology*, University of Delaware, Newark, DE, 2002

### POSTGRADUATE RESEARCH & ADMINISTRATIVE EXPERIENCE

- *Acting Director, Center for Urban Research, Engagement and Scholarship*, College of Agriculture, Urban Sustainability & Environmental Sciences (CAUSES), University of the District of Columbia (UDC), 2021
- *Affiliate Research Ecologist*, Bok Tower Gardens, Lake Wales, FL, 2012-present
- *Assistant Director of Urban Agriculture Research*, CAUSES, UDC, 2016-2021
- *Fulbright Scholar*, Barbados, 2018-2019
- *Research Scientist*, Center for Conservation Education and Sustainability, Smithsonian Institution, Washington, DC, 2013-2016
- *Research Entomologist*, USDA-ARS, Fort Pierce, FL, 2011-2013
- *Post Doctoral Research Associate*, Department of Crop Sciences, UIUC, 2009-2011

### TEACHING EXPERIENCE

*Instructor of Record*, UDC

Advanced Climate Change Science (ENSC 509), Spring 2018, Fall 2019, Fall 2020

Independent Study (ENSC 595), Fall 2018

Climate Change and Carbon Reduction (IGED 280/ENSC 460), Spring and Fall 2017

Conservation of Natural Resources Lecture and Laboratory (IGED 260/ENSC 350/ENSC 351), 2016

*Graduate Teaching Fellow*, NSF GK-12 Education Program, UIUC, 2006-2008

Developed and taught curricula about evolution, ecology, and animal biology, which used modeling, visualization, and hands-on labs. I taught: 215 students in eight eighth grade general science classes at an urban public school; 55 students in three seventh grade general science classes at a suburban public school; 11 students in an eighth grade evolution class at an urban private school; and 12 students in a seventh grade animal biology class at an urban private school.

*Teaching Assistant*, School of Integrative Biology, UIUC, 2005-2006

Taught two lab sections each of Animal Biology (IB 104) and Structure and Function of Plants and Animals (IB 202). Recognized on the university's List of Teachers ranked as Excellent ("outstanding" rating) for both courses based on student evaluations.

#### Other Contributions to Teaching Programs

*Program Coordinator and Student Advisor of the Professional Science Master's Program in Urban Agriculture*, UDC, 2016-2020.

*Reviewer, NSF-funded Science Education Module*, 2020.

*Advisor, Visiting Scholar*, UDC

Elif Yildiz (2019)

*High School Senior Project*

Charlotte Bassow (2021)

*Undergraduate Interns and Research Projects*, UDC

Lee Jones (2019-2020), Yvonna Harper (2019), Khristalee Amore (2018-2019), Caty Saffarinia (2018-2019), Linh Nguyen (2019), Tornia Anderson Morgan (2018-2019), Sarah Arafa (2018), Alimatu Sallah (2018), Zynyl Castor (2018), Ian Kingsley (2017-2018), Omar Abdelrahmen (2017), Llaquelin Reyes-Mendez (2017), Sanghear Prak (2016-2017), Francis Ngobounan (2016-2017), Jessica Guinyard (2016)

*Graduate/Postgraduate Research Assistants*, UDC

Dylan Mehri (2021), Gayle George (2021), Michael Bates (2021), Megan Thompson (2020-2021), Rahul Acharya (2019-2020), Daniel Weisshaar (2018-2020), Christina Ashe (2019), Piers Duffell (2019), Campbell Jackson (2019), Caitlin Arlotta (2017-2019), Ashley Myers (2016-2019)

*Thesis Committee*, UDC

Jorge Zou, architecture (2018)

*Certified to Teach Online*, UDC, 2016

Completed 6 hours of an online course, "New to Online: Essentials Part 1: Getting Started," through the Online Learning Consortium and 3 hours of a face-to-face course, "Applying the Quality Matters Rubric," through Quality Matters.

*Advisor, Postdoctoral Fellow*, Smithsonian Conservation Biology Institute, Washington, DC, 2014-2015

Karen Golinski

*Intern Mentor*, Smithsonian Conservation Biology Institute, Washington, DC, 2014-2015

Daniel Aiuto, Thea Mink

*Guest Lectures*

Research Methods (ULAE 615), UDC, 2019

Master Naturalist Program, UDC, 2018

Master Gardener Program, UDC, 2017, 2018 (twice), 2019

Agroecology (ENSC 250), UDC, 2016, 2017

Environmental Sustainability (ENSC 225), UDC, 2016

Urban Sustainability (ENSC 357), UDC, 2015

English/Conservation Immersion, Smithsonian-Mason School of Conservation, 2014

Animal-Plant Interactions (BIOL 404), Winthrop University, 2013

*Science Outreach*

Glen Haven Elementary School, Silver Spring, MD, 2017, 2019 (11 classes, 1 visit each)

Glen Haven Elementary School Career Day, Silver Spring, MD, 2017, 2019 (8 classes, 1 visit each)

Glen Haven Elementary School STEM Day, Silver Spring, MD, 2015 (5 classes, 2 visits each)

Donegal Intermediate School, Marietta, PA, 2014 (2 classes, 1 visit each)

Lincoln Middle School, Lancaster, PA, 2013 (1 class, 1 visit)

Urbana Middle School, IL, 2010 (4 classes, 4 visits each)  
 Crumbaugh Library Summer Guest Reader Series, Le Roy, IL, 2007 (2 visits)  
 Le Roy Parks and Recreation Summer Day Camp, IL, 2007 (1 visit)  
 Le Roy Elementary School, IL, 2005 (6 classes, 1 visit each)  
 Washington Elementary School, Lancaster, PA, 2002, 2005 (2 classes, 1 visit each)

*Member*, Insect Kit Advisory Committee, Entomological Foundation, 2010

Designed and approved teaching materials to promote entomological literacy for students in traditional and non-traditional programs in grades K-12 throughout the United States.

*Organizer*, Insect Symposium, UIUC, 2009

Obtained funding, designed four major instructional units that used arthropods as model systems for grades 7-12, recruited K-12 educators in Illinois, and co-taught the units to educators.

*Graduate Teaching Certificate*, UIUC, 2006

Completed a voluntary two-semester program (2005-2006) to enhance teaching skills. Participated in video-taped critiques of my teaching, attended developmental workshops, and received student feedback and evaluations.

*Trainer*, Ecology (IB 203), UIUC, 2006

Trained Teaching Assistants how to collect and identify aquatic macroinvertebrates.

## **OTHER EXPERIENCE**

*Sales Representative*, Scotts LawnService, Lancaster, PA, 2003

Identified grasses, weeds, turf diseases and problems, turf pests, and ornamental plants and their diseases and pests and recommended treatment strategies.

## **INTENSIVE TRAINING** (most recent date listed if training was completed multiple times)

Social & Behavioral Research – Basic/Refresher, CITI Program, May 2020.

Harassment Prevention for Employees – State and Local Government Edition, UDC, October 2019.

Interviewing for Higher Education Hiring Committees, UDC, June 2019.

Protecting Human Research Participants Online Training, PHRP, April 2019.

Introduction to Performance Management and S.M.A.R.T. Goals Clinic, UDC, August 2018.

Building the Foundation for an Effective Team, UDC, November 2017.

Developing a Successful Team, UDC, November 2017.

Encouraging Team Communication and Collaboration, UDC, November 2017.

Handling Team Conflict, UDC, November 2017.

Establishing Effective Virtual Teams, UDC, November 2017.

Facing Virtual Team Challenges, UDC, November 2017.

Maintaining a Multigenerational Workforce, UDC, November 2017.

Managing Multigenerational Employees, UDC, November 2017.

Assessing Your Own Leadership Performance, UDC, November 2017.

Inspirational Leadership, UDC, November 2017.

Leading a Cross-Functional Team, UDC, November 2017.

Science Communication Workshop, Bowie State University, October 2017.

A Manager's Guide to Diversity, Inclusion, and Accommodation, UDC, January 2017.

Protecting Human Research Participants, NIH, October 2016.

R Basics Workshop, Missouri Botanical Garden, St. Louis, May 2016.

FERPA for Higher Education, UDC, February 2016.

Advanced ArcGIS with Spatial Analyst and Modeling Tools, Smithsonian National Museum of Natural History, April 2015.

Introduction to GIS, Smithsonian National Museum of Natural History, December 2014.

Multimodel Inference Workshop, University of Missouri, St. Louis, September 2008.

Flow Cytometry Training, BD FACSCanto flow cytometer, Roy J. Carver Biotechnology Center, UIUC, May 2006.

**GRANT SUPPORT** (\*denotes co-PI status; lead or sole PI for other grants)

\*USDA-AMS Specialty Crop Block Grant. H Azam, J-L Izursa, SM Rahman, S O'Hara, ML Richardson, PD Millner, T Wheat. "Quantification of environmental, economic, and societal impacts of specialty crops grown in aquaponics and hydroponics." 2021; \$58,612.

\*UDC/USDA-NIFA Hatch Grant. H Azam, J-L Izursa, SM Rahman, ML Richardson, PD Millner, T Wheat. "Life cycle sustainability assessment (LCSA) for urban farming practices." 2020; \$90,000.

USDA-AMS Specialty Crop Block Grant. ML Richardson, J Harnly, F Lopez. "Urban and island sustainability: evaluating the use of repurposed waste for production of specialty crops." 2018; \$74,236.93.

UDC/USDA-NIFA Hatch Grant. ML Richardson, A Wallingford. "Cultural techniques to increase yield of winter-grown vegetables." 2018; \$60,000.

USDA-ARS. ML Richardson. Student internship programs. 2017-2019; \$41,400.

USDA-AMS Specialty Crop Block Grant. ML Richardson, T Schneider. "Using green roofs as research and educational training spaces to enhance urban specialty crop production." 2017; \$50,000.

UDC/USDA-NIFA Hatch Grant. ML Richardson, X Hu, T Jeffery. "Assessing the urban production potential and nutrient profiles of two crops native to the tropics." 2017; \$60,000.

\*UDC/USDA-NIFA Hatch Grant. T Jeffery, X Hu, ML Richardson. "Merging health with culture: a heritage model for improving plant-based food consumption and mitigating health disparities among urban minorities." 2017; \$56,442.

NSF. ML Richardson, SU O'Hara. "Smart cities and connected communities: a workshop bridging rural, peri-urban and urban sustainability." 2016; \$25,000.

USDA-NIFA. ML Richardson, SU O'Hara. "Smart cities and connected communities: a workshop bridging rural, peri-urban and urban sustainability." 2016; \$25,000.

\*Florida Forest Service Endangered and Threatened Plant Conservation Program. CL Peterson, CL Pruett, ML Richardson. "Phase V *Warea amplexifolia* conservation efforts: population augmentation and research into pollinator dynamics, spatial seedling recruitment patterns, population genetics, and factors influencing *in situ* seed germination." 2016; \$12,000.

††Duke Energy Foundation. CL Peterson. "Restoration of Imperiled Sandhill habitat for the conservation of the Federally Endangered Clasping Warea (*Warea amplexifolia*) and native pollinators." 2015; \$25,000. ††ML Richardson, Grant Writer & Project Partner

\*Florida Forest Service Endangered and Threatened Plant Conservation Program. CL Peterson, CL Pruett, ML Richardson. "Phase IV *Warea amplexifolia* conservation efforts: population introductions and monitoring, *ex situ* germplasm preservation, characterizing mortality patterns and development of microsatellites for population genetic analysis." 2015; \$11,235.

Kitimat LNG and Pacific Trail Pipeline Biodiversity Monitoring and Assessment Program. ML Richardson, F Dallmeier, A Alonso. "Restoring ecosystem function along the right-of-way and work areas" 2015; \$250,500.

\*United States Fish and Wildlife Service Endangered Species Conservation - Recovery Implementation Funds. CL Peterson, ML Richardson. "Population augmentations and spatial recruitment study for Savannas Mint (*Dicerandra immaculata* var. *savannarum*) and comparative seed biology studies on Savannas and Lakela's Mint (*Dicerandra immaculata* var. *immaculata*)." 2014 (amended 2015); \$43,000.

- \*Florida Forest Service Endangered and Threatened Plant Conservation Program. CL Peterson, J Ryneer, ML Richardson. “Experimental introduction of *Warea amplexifolia* onto protected land in Lake County – Phase III” 2014; \$10,000.
- \*Florida Forest Service Endangered and Threatened Plant Conservation Program. CL Peterson, J Ryneer, ML Richardson. “Experimental introduction of *Warea amplexifolia* onto protected land in Lake County – Phase II” 2013; \$10,000.
- Florida Native Plant Society Research Award. ML Richardson. “Determining ploidal diversity in two varieties of *Dicerandra immaculata* and the influence on spatial distribution.” 2013; \$1,500.
- Illinois Native Plant Society Research Fund. ML Richardson. “Factors influencing the distribution of cytotypes of *Solidago altissima*.” 2009; \$999.50.
- UIUC Program in Ecology, Evolution, and Conservation Biology Travel Grant. 2009; \$400.
- The Entomological Foundation Educational Mini-Grant. ML Richardson. “Implementation and evaluation of insect-based curricula in secondary classrooms.” 2008; \$2,100.
- Grant-in-Aid of Research from Sigma Xi, The Scientific Research Society. ML Richardson. “Ploidal diversity of host plants influences community structure of insects.” 2008; \$1,000.
- The Illinois Native Plant Society Research Fund. ML Richardson. “Ploidal diversity of host plants influences community structure of insects.” 2008; \$999.50.
- Prairie Biotic Research, Inc. Grant. ML Richardson. “Ploidal diversity of host plants influences community structure of insects.” 2008; \$1,000.
- UIUC Program in Ecology, Evolution, and Conservation Biology Summer Research Grant. ML Richardson. “Ploidal diversity of host plants influences community structure of insects.” 2008; \$850.
- UIUC Program in Ecology, Evolution, and Conservation Biology Travel Grant. 2008; \$250.
- UIUC Francis M. and Harlie M. Clark Research Support Grant. ML Richardson. “Ploidal diversity of host plants influences community structure of insects.” 2008; \$850.
- The Illinois Native Plant Society Research Fund. ML Richardson. “Ploidy of *Solidago altissima* in Illinois and impacts on associated insects.” 2007; \$952.03.
- Illinois State Academy of Science Student Research Grant. ML Richardson. “Identifying a female-produced aggregation pheromone of *Uroleucon nigrotuberculatum* (Homoptera: Aphididae).” 2007; \$392.
- UIUC Francis M. and Harlie M. Clark Research Support Grant. ML Richardson. “Effects of volatiles and host plant suitability on dispersion of aphids.” 2007; \$1,200.
- UIUC Program in Ecology, Evolution, and Conservation Biology Summer Research Grant. ML Richardson. “Trophic positions of generalist orb-weaving spiders (Araneae: Araneidae) in oldfield habitat in central Illinois.” 2007; \$800.
- UIUC Program in Ecology, Evolution, and Conservation Biology Travel Grant. 2007; \$400.
- UIUC Graduate College Conference Travel Grant. 2006; \$350.
- Philip W. Smith Memorial Fund, Illinois Natural History Survey. ML Richardson. “Density-dependent and density-independent mechanisms that affect a plant-insect system.” 2006; \$419.
- University of Delaware Undergraduate Research Grant. ML Richardson. “Instruments used for measuring degree-days” 2001; \$150.

## HONORS

- The President’s Volunteer Service Award presented by the Corporation for National and Community Service, 2013. (Recognition for over 360 hours of service in 12 consecutive months)
- Martin Luther King Jr. Drum Major for Service Award from the United States Department of Agriculture, 2013. (Recognition for over 290 hours of service in 2012)
- Science Education Project Award from the Entomological Foundation, 2010, 2012.
- Student and Young Professional Award from the Entomological Society of America, 2007, 2008, 2011.

Stinger Award for video “The Pharate Carnivore” (w/RF Mitchell), YouTube Your Entomology Contest, from the Entomological Society of America, 2010.

Research Assistantship from the Program in Ecology, Evolution, and Conservation Biology, UIUC, 2008, 2009.

Sponsored attendance at the Entomological Foundation Dinner and Dance, National Meeting of the Entomological Society of America, 2008.

UIUC School of Integrative Biology Program Enhancement Fund, 2008.

Best Student Paper in the Science Education Division, Illinois State Academy of Science meeting, 2008.

AAAS/Science Program for Excellence in Science, 2008.

Entomological Society of America – North Central Branch, Insect Digital Image Salon (2 images), 2007.

Elected a member of Phi Kappa Phi, 2006.

Elected to full membership of Sigma Xi, The Scientific Research Society, 2006.

The Chancellor’s List, 2005, 2006.

Membership Grant from the American Ornithologists’ Union, 2005-2008.

National Dean’s List, 2002.

University of Delaware Science and Engineering Scholar, 2000.

Inducted into Golden Key National Honor Society, 2000.

George M. Worriow Agricultural Scholarship, University of Delaware, 1999, 2000, 2001.

Freshman Honor Certificate, University of Delaware, 1999.

Glenside Community Fair Association Scholarship, 1998-2002, 2003.

Ruth C. Jones Scholarship, 1998-2002.

Educational Scholarship, University of Delaware, 1998-2002.

Dean’s List 7 times, University of Delaware, 1998-2002.

Honors Program, University of Delaware, 1998-2002.

## **PUBLICATIONS**

### Refereed Science Articles

- Luthria, D, FS Tareq, RR Kotha, R Marupaka, JM Harnly, CG Arlotta & ML Richardson. 2021. Variation of phytochemicals in leaves of seven accessions of *Hibiscus sabdariffa* grown under field row, green roof and high tunnel conditions. *ACS Food Science & Technology*. 1: 1702-1710. doi.org/10.1021/acsfoodscitech.1c00204
- Taylor, JR, M Hanumappa, L Miller, B Shane & ML Richardson. 2021. Facilitating governance of multifunctional green infrastructure in Washington, DC through a Tableau interface. *Sustainability* 13: 8390. doi:10.3390/su13158390
- Richardson, ML & CG Arlotta. 2021. Differential yield and nutrients of *Hibiscus sabdariffa* L. genotypes when grown in urban production systems. *Scientia Horticulturae* 288: 110349.
- Harrison, E, L Monroe-Lord, A Carson, AMJ Baptiste, J Phoenix, P Jackson, BM Harris, E Asongwed & ML Richardson. 2021. COVID-19 pandemic-related changes in wellness behavior among older Americans. *BMC Public Health*. 21: 755. doi.org/10.1186/s12889-021-10825-6
- Jeffery, TD & ML Richardson. 2021. A review of the effectiveness of hibiscus for treatment of metabolic syndrome. *Journal of Ethnopharmacology* 270: 113762. doi.org/10.1016/j.jep.2020.113762
- Harrison, E, AD Milton & ML Richardson. 2020. Knowledge and perceptions of environmental issues by African Americans/Blacks in Washington, DC, USA: giving voice to the voiceless. *Sustainability*. 12: 9495. doi:10.3390/su12229495
- Richardson, ML, AD Milton & E Harrison. 2020. People with different educational attainment in Washington, DC, USA have differential knowledge and perceptions about environmental issues. *Sustainability* 12: 2063. doi: 10.3390/su12052063

- Oleas, NH, CL Peterson, J Thompson, ML Richardson, Y Reynaldo & EJB von Wettberg. 2018. Genetic and environmental variation among populations of *Vicia ocalensis* in the Ocala National Forest, USA. *Journal of the Torrey Botanical Society* 145(3): 202-211. doi.org/10.3159/TORREY-D-16-00064.1
- Hanks, LM, JA Mongold-Diers, TH Atkinson, MK Fierke, MD Ginzel, EE Graham, TM Poland, AB Richards, ML Richardson & JG Millar. 2018. Blends of pheromones, with and without host plant volatiles, can attract multiple species of cerambycid beetles simultaneously. *Journal of Economic Entomology* 111(2):716-724. doi: 10.1093/jee/tox373
- Richardson, ML, B Wilson, D Aiuto, J Crosby, A Alonso, F Dallmeier & GK Golinski. 2017. A review of the impact of pipelines and power lines on biodiversity and methods for mitigation. *Biodiversity and Conservation* 26:1801-1815. doi: 10.1007/s10531-017-1341-9
- Richardson, ML. 2017. Daily and monthly activity of brown bears near a proposed industrial project in coastal British Columbia. *Western North American Naturalist*. 77(1):118-123. doi.org/10.3398/064.077.0113
- Noland, K, E Norman, C Peterson & ML Richardson. 2017. Extrinsic factors influence phenology of the epiphytic hand fern (*Cheiroglossa palmata*). *Botany* 95(9):889-895. doi.org/10.1139/cjb-2017-0071
- Richardson, ML, CP Keathley & CL Peterson. 2016. Breeding system of the critically endangered Lakela's Mint and influence of plant height on pollinators and seed output. *Population Ecology* 58(2):277-284. doi: 10.1007/s10144-015-0531-0
- Stover, E, S Inch, ML Richardson & DG Hall. 2016. Conventional citrus of some scion/rootstock combinations show field tolerance under severe huanglongbing disease pressure. *HortScience* 51(2):127-132. doi.org/10.21273/HORTSCI.51.2.127
- Richardson, ML, J Rynear & CL Peterson. 2014. Microhabitat of critically endangered *Lupinus aridorum* (Fabaceae) at wild and introduced locations in Florida scrub. *Plant Ecology* 215(4):399-410. doi.org/10.1007/s11258-014-0310-6
- Ammar, E-D, ML Richardson, Z Abdo, DG Hall & RG Shatters Jr. 2014. Differences in stylet sheath formation and the fibrous ring (sclerenchyma) between *xCitroncirus* plants resistant or susceptible to adults of the Asian citrus psyllid *Diaphorina citri* (Hemiptera: Liviidae). *PLoS One* 9(10):e110919. doi:10.1371/journal.pone.0110919
- Stover, E, R Driggers, ML Richardson, DG Hall, Y Duan & RF Lee. 2014. Incidence and severity of Asiatic citrus canker on diverse *Citrus* and *Citrus*-related germplasm in a Florida field planting. *HortScience* 49(1):4-9. doi.org/10.21273/HORTSCI.49.1.4
- Richardson, ML, MLJ Watson & CL Peterson. 2013. Influence of community structure on the spatial distribution of critically endangered *Dicerandra immaculata* var. *immaculata* (Lamiaceae) at wild, introduced, and extirpated locations in Florida scrub. *Plant Ecology* 214(3):443-453. doi: 10.1007/s11258-013-0181-2
- Peterson, CL, G Kaufmann, C Vandello & ML Richardson. 2013. Parent genotype and environmental factors influence introduction success of the critically endangered Savannas Mint (*Dicerandra immaculata* var. *savannarum*). *PLoS One* 8(4):e61429. doi:10.1371/journal.pone.0061429
- Rynear, J, CL Peterson & ML Richardson. 2013. Variables influencing germination and initial survival of two critically endangered plants: *Warea amplexifolia* and *Lupinus aridorum*. *Botany* 91(5):323-326. doi: 10.1139/cjb-2012-0242
- Richardson, ML & DG Hall. 2013. Resistance of *Poncirus* and *Citrus x Poncirus* germplasm to the Asian citrus psyllid. *Crop Science* 53(1):183-188. doi.org/10.2135/cropsci2012.02.0091
- Richardson, ML & DG Hall. 2013. Toxicity of 6 miticides to the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Liviidae). *Florida Entomologist* 96(2):433-441. doi.org/10.1653/024.096.0207

- Hall, DG & ML Richardson. 2013. Toxicity of insecticidal soap to the Asian citrus psyllid (*Diaphorina citri*) and natural enemies. *Journal of Applied Entomology* 137(5):347-354. doi: 10.1111/j.1439-0418.2012.01749.x
- \*\*Richardson, ML, PF Reagel, RF Mitchell & DW Whitman. 2012. Opportunistic carnivory by *Romalea microptera* (Orthoptera: Acrididae). *Annals of the Entomological Society of America* 105(1):28-35.  
\*\*Cover photograph
- Richardson, ML. 2012 Temperature influences the expression of resistance of soybean (*Glycine max*) to the soybean aphid (*Aphis glycines*). *Journal of Applied Entomology* 136(9):641-645.
- Richardson, ML & LM Hanks. 2011. Differences in spatial distribution, morphology, and communities of herbivorous insects among three cytotypes of *Solidago altissima* (Asteraceae). *American Journal of Botany* 98(10):1595-1601.
- Richardson, ML, CJ Westbrook, DG Hall, E Stover, YP Duan & RF Lee. 2011. Abundance of citrus leafminer larvae on *Citrus* and *Citrus*-related germplasm. *HortScience* 46(9):1260-1264.
- Richardson, ML, DM Lagos, RF Mitchell, GL Hartman & DJ Voegtlin. 2011. Life history and morphological plasticity of the soybean aphid, *Aphis glycines*. *Entomologia Experimentalis et Applicata* 140(2):139-145.
- Whitman, DW & ML Richardson. 2010. Necrophagy in grasshoppers: *Taeniopoda eques* feeds on mammal carrion. *Journal of Orthoptera Research* 19(2):377-380.
- Richardson, ML & RF Mitchell. 2010. Longer living through science. *American Entomologist* 56(3):186-188.
- Richardson, ML, RF Mitchell, PF Reagel & LM Hanks. 2010. Causes and consequences of cannibalism in non-carnivorous insects. *Annual Review of Entomology* 55:39-53.
- Richardson, ML. 2010. Effects of grassland succession on communities of small mammals in Illinois, USA. *Biologia* 65(2):344-348.
- Richardson, ML. 2010. *Lampropeltis calligaster* (prairie kingsnake). Thermal ecology. *Herpetological Review* 41(3):365-366.
- Richardson, ML & LM Hanks. 2009. Effects of grassland succession on communities of orb-weaving spiders. *Environmental Entomology* 38(6):1595-1599.
- Richardson, ML & LM Hanks. 2009. Partitioning of niches among four species of orb-weaving spiders in a grassland habitat. *Environmental Entomology* 38(3):651-656.
- Richardson, ML & DM Lagos. 2007. Effects of a juvenile hormone analogue, pyriproxyfen, on the apterous form of soybean aphid (*Aphis glycines*). *Journal of Applied Entomology* 131(5):297-302.
- Richardson, ML, PJ Weatherhead & JD Brawn. 2006. Habitat use and activity of prairie kingsnakes (*Lampropeltis calligaster calligaster*) in Illinois. *Journal of Herpetology* 40(4):423-428.
- Richardson, ML, DM Caron & DJ Suchanic. 2006. Degree-days for five ornamental pests from an 11-year field study. *Journal of Entomological Science* 41(1):87-89.
- Richardson, ML & DM Caron. 2005. A comparison of instruments and services used to measure degree-days. *HortTechnology* 15(3):572-576.

#### Refereed Science Education Articles

- Richardson, ML, SL Richardson & DG Hall. 2012. Using biological control research in the classroom to promote scientific inquiry and literacy. *The American Biology Teacher* 74(7):445-451.
- Richardson, ML & J Hari. 2011. Along came a spider: using live arthropods in a predator-prey activity. *Science Activities* 48:137-144.
- Richardson, ML. 2010. Publishing scientific outreach materials in educational and social science journals. *American Entomologist* 56(1):12-14.



- Richardson, ML. 2009. Using an exploratory Internet activity and trivia game to teach students about biomes. *Science Activities* 46(2):19-24.
- Richardson, ML & J Hari. 2009. Building ecological complexity in the classroom using pea aphids and components of their community. *The American Biology Teacher* 71(5):286-290.
- Richardson, ML & J Hari. 2008. Teaching students about biodiversity by studying the correlation between plant and arthropod biodiversity. *The American Biology Teacher* 70(4):217-220.

#### Book Review

- Richardson, ML. 2009. Review of book *Model based inferences in the life sciences: a primer on evidence*, by DR Anderson, Springer, NY. *Annals of the Entomological Society of America* 102(4):737-738.

#### Abstracts, Newspaper Articles, Technical papers

- Arlotta, CG & ML Richardson. 2021. Nutrients in roselle (*Hibiscus sabdariffa*): minerals. UDC Fact Sheet 016.
- Richardson, ML & CG Arlotta. 2019. Growing roselle (*Hibiscus sabdariffa*) for home or business production in the Mid-Atlantic. UDC Fact Sheet 001.
- Richardson, ML & CL Peterson. 2018. Towards understanding Lakela's and Savannas Balm, *Dicerandra immaculata*. *The Palmetto* 34(3):4-11.
- Hall, DG, SL Lapointe, RG Shatters, WB Hunter, E Ammar, PS Robbins, JK Morgan, ML Richardson & AJ Walter. 2011. On a mission. *Florida Grower* 104(6):22-23.
- Richardson, M. 2010. Factors influencing the distribution of cytotypes of *Solidago altissima*. *Erigenia* 24:31.
- Richardson, ML. 2010. Ecological divergence among three cytotypes of *Solidago altissima* L. *Erigenia* 23:45.
- Richardson, ML. 2009. Polyploidy in tall goldenrod affects its phenotype and insect communities. *Erigenia* 22:59-60.
- Richardson, ML. 2008. Demonstrating how abiotic factors influence the distribution of animals. *Trans. Illinois State Acad. Sci.* 102 (Supplement):79-80.
- Richardson, ML 2007. Using plant-arthropod relationships as a model system to teach biodiversity. *Trans. Illinois State Acad. Sci.* 101 (Supplement):68.
- Mitchell, RF, ML Richardson, PF Reagel, & LM Hanks. 2007. Consequences of cannibalism in non-carnivorous insects. *Trans. Illinois State Acad. Sci.* 100 (Supplement):72.
- Richardson, ML, JD Brawn, & PW Weatherhead. 2006. Effects of prescribed burning on small mammals and snakes in Midwestern grassland. *Trans. Illinois State Acad. Sci.* 99 (Supplement):34
- Richardson, M. 2004. Man leaves more than footprints. *The State Journal-Register*. Jun 19.
- Caron, DM & M Richardson. 2003. Accurate Numbers. SE PA IPM Conf. Proc. 15-20.
- Caron, DM & M Richardson. 2002. Monitoring eastern tent caterpillar egg hatch. *Del. Assn. Nurserymen*.
- Caron, DM & M Richardson. 2002. Bagworm. *Univ. Del. Coop. Ext. Publ.* 2 pp.
- Richardson, M & DM Caron. 2002. Pine needle scale. *Univ. Del. Coop. Ext. Publ.* 2 pp.
- Richardson, M & DM Caron. 2002. Birch leafminer. *Univ. Del. Coop. Ext. Publ.* 2 pp.
- Richardson, M & DM Caron. 2002. Eastern tent caterpillar. *Univ. Del. Coop. Ext. Publ.* 2 pp.
- Richardson, M. 2002. Birch leafminer. *Ornamentals Hotline*. 5.
- Richardson, M. 2001. Year of the hymenoptera. *New Jersey Beekeepers Assn. News*. 15:5.
- Richardson, M. 2001. Silken nests hide feeding caterpillars. *Garden Check*. 8:6-7.
- Richardson, M. 2001. Yellownecked caterpillars munch shade trees for lunch. *Garden Check*. 7:7.
- Richardson, M. 2001. Wasp nests best attacked after dark - with spray. *Wilmington News Journal*. Aug 16.
- Richardson, M. 2001. Year of the hymenoptera. *Newsy Bee*. August.
- Richardson, M. 2001. Lace bugs. *Ornamentals Hotline*. 22.

- Richardson, M. 2001. Battling the bad beetles. Garden Check. 6:5.
- Richardson, M. 2001. Rosebush leaves fall victim to hungry insect pests. Wilmington News Journal. Jul 19.
- Richardson, M. 2001. Dusky birch sawflies. Ornamentals Hotline. 17.
- Richardson, M. 2001. Japanese beetles. Ornamentals Hotline. 14.
- Richardson, ML. 2001. Comparison of temperature monitoring methods for GDD accumulation. SE PA IPM Fact Sheet 4 pp.
- Richardson, ML. 2001. Comparison of temperature monitoring methods for GDD accumulation. Univ. Del. Coop. Ext. Publ. 4 pp.

### **INVITED TALKS**

- Richardson, ML. 2021. Rodale Institute, Kutztown, PA.
- Richardson, ML & E Harrison. 2020. Inclusivity in Cooperative Extension programming, with an emphasis on natural resources and climate change. USDA Northeast Region Climate Hub, virtual webinar.
- Richardson, ML. 2018. Beltsville Human Nutrition Center, USDA-ARS, MD.
- Richardson, ML. 2018. Urban Agriculture Today and Tomorrow: Research for Sustainable Solutions, USDA-BARC, Beltsville, MD.
- Harrison, E & ML Richardson. 2018. Northeast Climate Hub Partners Meeting, Building Agricultural Resiliency Through Adaptation, Rutgers University, New Brunswick, NJ.
- Richardson, ML, T Jeffery, D Jones, & K Zendejdel. 2017. The 10th Annual Dupont Summit on Science, Technology, and Environmental Policy, Washington, DC.
- Richardson, ML. 2015. The Wilds, Cumberland, OH.
- Richardson, ML, JL Deichmann, & T Gregory. 2015. National Parks Conservation Association, Washington, DC.
- Richardson, ML. 2013. Rare Plant – Insect Interactions. Rare Plant Task Force Meeting. Lake Wales, FL.
- Richardson, ML. 2013. Department of Biology. Florida A&M University, Tallahassee.
- Richardson, ML. 2013. Department of Biology. Winthrop University, Rock Hill, SC.
- Richardson, ML. 2011. Entomology and Nematology Department. University of Florida, Gainesville.
- Richardson, ML. 2011. Department of Biology, C.W. Post Campus of Long Island University, Brookville, NY.
- Richardson, ML. 2010. Symposium: Adding diversity to your educational outreach toolbox: new ways to engage students in entomology and science. National Meeting of the Entomological Society of America. San Diego, CA.
- Richardson, ML. 2008. Symposium: The NSF GK-12 Program: insect-based curricula, impact, and extensions. National Meeting of the Entomological Society of America. Reno, NV.
- Hari, J & ML Richardson. 2008. Symposium: The NSF GK-12 Program: insect-based curricula, impact, and extensions. National Meeting of the Entomological Society of America. Reno, NV.
- Richardson, ML. 2002. Using degree-days to accurately predict ornamental plant pest populations. Fall Meeting of the Southeast Pennsylvania Integrated Pest Management Research Group. Collegeville, PA.
- Richardson, ML. 2001. Growing degree-days for IPM Programs. Ornamentals Research Expo, University of Delaware. Newark, DE.
- Richardson, ML. 2001. Growing degree-days, their formulation and instruments used to measure them. Spring Meeting of the Southeast Pennsylvania Integrated Pest Management Research Group. Collegeville, PA.

**CONTRIBUTED TALKS AND POSTERS** (+student mentee; \*\*presenting author when not listed first)

- Richardson, ML, P Aniello, L Miller, JR Taylor, B Shane, T Schottland, M Hanumappa. 2021. The social, environmental, and economic benefits of green infrastructure in Washington, DC. Annual Meeting of the Ecological Society of America. Virtual.
- Thompson<sup>+</sup>, M, NG Little, JR Taylor, AD Carson, A Rangarajan, R VanVranken, M Hanumappa, ML Richardson. 2021. The current state of urban agriculture and extension and research needs in the Northeast U.S. Annual Meeting of the Ecological Society of America. Virtual.
- Little, NG, MJ Thompson<sup>+</sup>, JR Taylor, AD Carson, A Rangarajan, R VanVranken, M Hanumappa, ML Richardson. 2021. The current state of urban agriculture and extension and research needs in the Northeast U.S. National Association of County Agricultural Agents Annual Meeting and Professional Improvement Conference. Virtual.
- Weisshaar<sup>+</sup>, D, AK Wallingford, & ML Richardson. 2019. Impacts of mulching winter kale (*Brassica oleracea*) for Aphididae control. National Meeting of the Entomological Society of America. St. Louis, MO.
- Arlotta<sup>+</sup>, C, R Marupaka, RR Kotha, D Luthria, J Harnly, & ML Richardson. 2019. Testing genotypes of an ethnic crop for use in urban agriculture: mass selection breeding provides advantages. Annual Meeting of the Ecological Society of America. Louisville, KY.
- Arlotta<sup>+</sup>, C, R Marupaka, RR Kotha, D Luthria, J Harnly, & ML Richardson. 2019. Testing genotypes of edible hibiscus for use in urban agriculture: advantages of mass selection breeding. 2019 Smithsonian Botanical Symposium, "What Darwin Couldn't Know: Modern Perspectives on Crop Plant Origins." Washington, DC.
- Arlotta<sup>+</sup>, C, R Marupaka, RR Kotha, D Luthria, J Harnly, & ML Richardson. 2019. Testing genotypes of edible hibiscus for use in urban agriculture: advantages of mass selection breeding. 4<sup>th</sup> Virginia Urban Agriculture Summit. Virginia Beach, VA.
- Saffarinia<sup>+</sup>, C, C Arlotta<sup>+</sup>, TA Morgan<sup>+</sup>, & ML Richardson. 2019. Varieties of sweet potatoes for urban agriculture. Mid-Atlantic Chapter of the Ecological Society of America Annual Meeting. Bowie, MD.
- Arlotta<sup>+</sup>, C, R Marupaka, RR Kotha, D Luthria, J Harnly, & ML Richardson. 2019. Edible hibiscus for urban agriculture and advantages of mass selection breeding. Mid-Atlantic Chapter of the Ecological Society of America Annual Meeting. Bowie, MD.
- Luthria, D, R Marupaka, R Kotha, J Harnly, C Arlotta<sup>+</sup>, T Jeffery & ML Richardson. 2018. Changes in the phytochemicals and sugar contents in hibiscus grown on a rooftop and farm. International Society for Nutraceuticals and Functional Foods Annual Conference. Vancouver, BC.
- Arlotta<sup>+</sup>, C, R Marupaka, D Luthria, J Harnly, T Jeffery, & ML Richardson. 2018. Differential yield and nutrients of hibiscus genotypes. The American Society of Agronomy and the Canadian Society of Agronomy International Annual Meeting. Baltimore, MD.
- Richardson, ML, D Zaya & CL Peterson. 2016. The influence of climate on the viability of wild and augmented populations of the endangered *Dicerandra immaculata* (Lamiaceae). Annual Meeting of the Ecological Society of America. Ft Lauderdale, FL.
- Peterson, CL, K Noland, E Norman & ML Richardson. 2016. Age, location, and weather influences morphology, leaf production, growth, and fertility of hand fern (*Cheiroglossa palmata*). Annual Meeting of the Ecological Society of America. Ft Lauderdale, FL.
- Richardson, ML, A Alonso, J Crosby, K Golinski, B Wilson & F Dallmeier. 2015. The impact of linear infrastructure on biodiversity and the effectiveness of mitigation strategies. Annual Meeting of the Ecological Society of America. Baltimore, MD.

- Peterson, CL & ML Richardson\*\*. 2015. Influence of plant traits, density, and the environment on pollinators and reproduction of *Dicerandra immaculata* (Lamiaceae). Annual Meeting of the Ecological Society of America. Baltimore, MD.
- Rynear, J, ML Richardson & CL Peterson. 2015. Microhabitat of critically endangered *Lupinus aridorum* (Fabaceae) at wild and introduced locations in Florida. Florida Native Plant Society Annual Conference. Tallahassee, FL.
- Rynear, J, ML Richardson & CL Peterson. 2015. Microhabitat of critically endangered *Lupinus aridorum* (Fabaceae) at wild and introduced locations in Florida. Rare Plant Task Force Meeting. Gainesville, FL.
- Rynear, J, CL Peterson & ML Richardson. 2014. Variables influencing germination and initial survival of two critically endangered plants: *Warea amplexifolia* and *Lupinus aridorum*. Florida Native Plant Society Annual Conference. Ft. Myers, FL.
- Ammar, ED, ML Richardson, DG Hall & RG Shatters Jr. 2013. The fibrous ring (sclerenchyma) around the phloem as a barrier to psyllid stylet penetration into the vascular bundle in leaves of citrange resistant to the Asian citrus psyllid, *Diaphorina citri* (Hemiptera: Psyllidae). 4<sup>th</sup> Citrus Health Research Forum. Denver, CO.
- Peterson CL & ML Richardson\*\*. 2013. Influence of community structure on the spatial distribution and pollination of critically endangered *Dicerandra immaculata* var. *immaculata* (Lamiaceae). Annual Meeting of the Ecological Society of America. Minneapolis, MN.
- Hall, DG, E Stover & ML Richardson. 2013. Plant resistance within the Rutaceae to Asian citrus psyllid. Florida Entomological Society Annual Meeting. Naples, FL.
- Watson<sup>+</sup>, MLJ, ML Richardson & CL Peterson. 2013. Influence of community structure on the spatial distribution of Lakela's mint, *Dicerandra immaculata*. Florida Native Plant Society Annual Conference. Jacksonville, FL.
- Richardson, ML & DG Hall. 2013. Resistance of *Poncirus* and *Citrus x Poncirus* germplasm to the Asian citrus psyllid. International Research Conference on Huanglongbing. Orlando, FL.
- Richardson, ML, CJ Westbrook, & DG Hall. 2011. Host plant resistance in citrus germplasm to the Asian citrus psyllid, *Diaphorina citri*. National Meeting of the Entomological Society of America. Reno, NV.
- Hall, DG & ML Richardson\*\*. 2011. Toxicity of insecticidal soap to Asian citrus psyllid (*Diaphorina citri*). National Meeting of the Entomological Society of America. Reno, NV.
- Lapointe, SL, HT Alborn, RT Alessandro, J Ali, L Forster, DG Hall, R Mann, JM Patt, A Ray, ML Richardson, PS Robbins, M Setamou, RG Shatters, LL Stelinski & A Walter. 2011. Ecology of the Asian citrus psyllid. Second Annual Citrus Health Research Forum. Denver, CO.
- Richardson, ML, CB Hill & GL Hartman. 2010. Factors influencing resistance of soybean (*Glycine max*) to the soybean aphid (*Aphis glycines*). National Meeting of the Entomological Society of America. San Diego, CA.
- Richardson, ML, CB Hill & GL Hartman. 2010. Effects of preconditioning *Aphis glycines* on the expression of resistance in breeding lines of *Glycine max*. Annual Meeting of the Ecological Society of America. Pittsburgh, PA.
- Richardson, ML, CB Hill & GL Hartman. 2009. Studies on inheritance of virulence in the soybean aphid (*Aphis glycines*). National Meeting of the Entomological Society of America. Indianapolis, IN.
- Richardson, ML. 2009. Ecological divergence among three cytotypes of *Solidago altissima* L. Annual Meeting of the Ecological Society of America. Albuquerque, NM.
- Richardson, ML & LM Hanks. 2008. Influence of ploidal diversity of host plants on community structure of phytophagous insects. National Meeting of the Entomological Society of America. Reno, NV.

- Cosentino, BJ, ML Richardson & SD Smith. 2008. AIC and other statistical methods to compare multiple models. Ecolunch, University of Illinois. Urbana, IL.
- Richardson, ML & LM Hanks. 2008. Segregation of niches among four species of orb-weaving spiders (Araneidae). Annual Meeting of the Ecological Society of America. Milwaukee, WI.
- Richardson, ML. 2008. Demonstrating how abiotic factors influence the distribution of animals. Annual Meeting of the Illinois State Academy of Science. Urbana, IL.
- Richardson, ML. 2008. Building ecological complexity in GK-12 classrooms: ideas for outreach. Midwest Ecology and Evolution Conference, Ohio University. Athens, OH.
- Richardson, ML, C Whalen, & S Denos. 2008. Real science in real classrooms. NSF GK-12 Annual Meeting, Washington, DC.
- Richardson, ML & LM Hanks. 2007. Effects of secondary succession on biodiversity of orb-weaving spiders. National Meeting of the Entomological Society of America. San Diego, CA.
- Richardson, ML. 2007. Using plant-arthropod relationships as a model system to teach biodiversity. Annual Meeting of the Illinois State Academy of Science. Springfield, IL.
- Mitchell, RF, ML Richardson, PF Reagel & LM Hanks. 2007. Consequences of cannibalism in non-carnivorous insects. Annual Meeting of the Illinois State Academy of Science. Springfield, IL.
- Richardson, ML. 2007. Outreach programs in GK-12, a biodiversity project. Midwest Ecology and Evolution Conference, Kent State University. Kent, OH.
- Denos, S, T Smith, ML Richardson, K Rampalli, D Cummins, J Younker & C Whalen. 2007. UIUC GK12 - modeling and visualization in the sciences and social sciences. NSF GK-12 Annual Meeting, Washington, DC.
- Richardson, ML, PF Reagel, RF Mitchell & LM Hanks. 2007. Impact of cannibalism on fitness and population dynamics of non-carnivorous insects. Graduate Students in Ecology and Evolutionary Biology Symposium, University of Illinois. Urbana, IL
- Richardson, ML, PF Reagel, RF Mitchell & LM Hanks. 2006. Impact of cannibalism on fitness and population dynamics of phytophagous insects. National Meeting of the Entomological Society of America. Indianapolis, IN.
- Richardson, ML, JD Brawn & PJ Weatherhead. 2006. Effects of prescribed burning on small mammals and snakes in Midwestern grassland. Annual Meeting of the Illinois State Academy of Science. Chicago, IL.
- Richardson, ML. 2004. Prescribed fire's effects on biodiversity in the Midwestern prairie. Natural Resources and Environmental Sciences Symposium, University of Illinois. Urbana, IL.
- Richardson, ML & DM Caron. 2003. Obtaining and utilizing growing degree-days to accurately predict ornamental plant pest populations. SE PA bi-annual IPM Conference, Villanova University. Villanova, PA.
- Richardson, ML. 2002. Obtaining and utilizing growing degree-days to accurately predict ornamental plant pest populations. Undergraduate Research Symposium, University of Delaware. Newark, DE.
- Richardson, ML, DM Caron & DJ Suchanic. 2001. Measuring growing degree-days for integrated pest management programs. National Cooperative Extension Agents Meeting. Albuquerque, NM.
- Richardson, ML. 2001. Measuring growing degree-days for IPM programs. Scholars Poster Session, University of Delaware. Newark, DE.

## **INTELLECTUAL PROPERTY**

Co-inventor of a new variety of *Hibiscus sabdariffa* under the name Hikudrum™

## **CURRENT AFFILIATION**

Ecological Society of America

## **MEDIA COVERAGE**

Voice of America News, "[American youth and agriculture](#)." 9 April 2019.  
 Voice of America News, "[Green roofs absorb rainwater, grow food](#)." 8 Feb 2019.  
 The Garden Path 5(2):8-9, "Anatomy of a habitat," Summer 2013.  
 Video, "The Pharate Carnivore" (w/RF Mitchell), in the online edition of the New York Times, 29 November 2012.

## **PROFESSIONAL SERVICE**

### Service to Disciplinary and Professional Societies

Facilitator, Northeast Climate Adaptation Workshop, Washington, DC, 2020.  
 Member, Technical and Industry Advisory Committee of the Northeastern Regional Aquaculture Center, University of Maryland, 2016-2017.  
 Organizer and moderator of multiple sessions for Urban Sustainability and Sustaining Food and Water. International Society for Ecological Economics Conference, Washington, DC, 2016.  
 Chair, Division of Agriculture, Illinois State Academy of Science, 2009-2010.  
 Co-Chair, Division of Science, Mathematics, and Technology Education, Illinois State Academy of Science, 2008-2009.  
 Volunteer, National Meeting of the Entomological Society of America, San Diego, CA, 2007.  
 Moderator, Section Cd: Behavior and Ecology. National Meeting of the Entomological Society of America, San Diego, CA, 2007.  
 Judge of student posters, Population ecology/genetics Division, Midwest Ecology and Evolution Conference, Kent, OH, 2007.  
 Volunteer, National Meeting of the Entomological Society of America, Indianapolis, IN, 2006.  
 Judge of student posters, Zoology Division, Annual Meeting of the Illinois State Academy of Science, Chicago, 2006.  
 Volunteer, National Meeting of the American Ornithologists' Union, Urbana, IL, 2003.

### Meetings Organized/Co-organized

Fostering Research Collaborations and Scientific Training Opportunities Workshop: Chesapeake Regional HBCU Institutions and USDA-ARS-NEA-BARC. 2017. Beltsville, MD.  
 Smart Cities and Connected Communities: A Workshop Bridging Rural, Peri-Urban, and Urban Sustainability. 2016. Washington, DC.  
 Northeast Region Urban Agriculture and Sustainability Research Meeting. 2016. Washington, DC.  
 Symposium with M. Da Costa, 2008. The NSF GK-12 Program: insect-based curricula, impact, and extensions. Annual Meeting of the Entomological Society of America. Reno, NV.

### Reviews of Journal Manuscripts

African Journal of Biotechnology, American Biology Teacher, American Midland Naturalist, Animal Behaviour, Arthropod-Plant Interactions, Biologia, Biological Journal of the Linnaean Society, Biological Invasions, Ecological Entomology, Entomologia Experimentalis et Applicata, Herpetological Conservation and Biology, Insect Science, Integrative Zoology, International Journal of Environmental Research and Public Health, Journal of Economic Entomology, Journal of Insect Science, Journal of the Torrey Botanical Society, Natural Areas Journal, Oecologia, PLoS One, Sustainability, Transactions of the Illinois State Academy of Science

Grant Review

USDA-NIFA (Small Business Innovation Research Program), 2018.  
 UDC/USDA-NIFA Hatch Grant, University of the District of Columbia, 2016, 2018.  
 Northeastern Regional Aquaculture Center Pre-proposals, 2016, 2017.  
 Fellowship selection committee for the Smithsonian National Zoological Park, 2014, 2015.  
 National Science Foundation (Division: Animal Behavior), 2010.

Institutional Service

UDC Internal Research Council, 2018-present.  
 UDC CAUSES Seed Grant Coordinator, 2016-present.  
 UDC Graduate Council, 2018-2020.  
 UDC Research Week Planning Committee, 2020-present.  
 UDC/USDA-AMS Specialty Crop Block Grant District Coordinator, 2017.  
 Coordinator, Brownbag “Teach and Learn” series, UDC 2016-2018.  
 Postgraduate Hiring Committees (\*Committee Chair; Hiring of Direct Reports not included):  
   Dean, College of Agriculture, Urban Sustainability and Environmental Sciences, UDC, 2021.  
   Associate Dean and founding Director – School of Health and Clinical Sciences, UDC, 2021.  
   \*Staff Assistant for Urban Agriculture, UDC, 2021.  
   \*Data Assessment Manager, UDC, 2020.  
   Sr. Program Coordinator Food Safety Systems, UDC, 2020.  
   Project Specialist for Innovation and Entrepreneurship, UDC, 2020.  
   \*Staff Assistant for Urban Agriculture, UDC, 2020.  
   \*Project Specialist for Assessment, UDC, 2018, 2019.  
   Project Assistant for Urban Agriculture, UDC, 2018.  
   \*Project Specialist for Health and Wellness, UDC, 2017.  
   Project Assistant for Urban Agriculture, UDC, 2017.  
   Assistant Farm Manager, UDC, 2017.  
   Operations Assistant for Urban Agriculture and Gardening Education, UDC, 2017.  
   Project Coordinator for EFNEP and Snap-Ed, UDC, 2016.  
   Project Associate for Data Management and Logistics, UDC, 2016.  
   Director of the Water Resources Research Institute, UDC, 2016.  
   \*Postdoctoral Fellow in Plant Taxonomy and Ecology, Smithsonian Institution, 2015.  
   \*Logistics Coordinator for Field Programs in British Columbia, Smithsonian Institution, 2015.  
   Department of Entomology and Applied Ecology faculty hiring committee, UD, 2000.  
 Meeting Chair, Urban Agriculture and Sustainability in the Northeast Region, UDC 2016.  
 USA Science and Engineering Festival Planning Committee Member, UDC, 2016.  
 Selection committee for NSF GK-12 Fellows, UIUC, 2008.  
 Identified peridomestic pests for the Chancellor, UIUC, 13 March 2008.  
 Graduates in Ecology and Evolutionary Biology Symposium Committee and Head Student Judge, UIUC, 2007-2008.  
 Provided insects for analyses of walking mechanics by Fred Delcomyn, UIUC, 2006.  
 Volunteer field/lab assistant: nationwide census of ploidal levels of *Solidago altissima* led by John Nason, Iowa State University, and John Semple, University of Waterloo, 2006.  
 Volunteer field assistant: located box turtles for a telemetry study led by Jake Bowman, UD, 2001.

**PUBLIC SERVICE**

Presentation to natural gas contractors about health and habitat use of the western toad in construction areas, Kitimat, BC, Canada, November 2014.

Science Volunteer, Autumn Conservation Festival, Smithsonian Conservation Biology Institute, Front Royal, VA, 2014.

Media interview for article, "Why do some animals turn cannibalistic?" The Munich Eye. 6 June 2013.

Led high school students on tour of U.S. Horticultural Research Laboratory, Fort Pierce, FL, April 2011, 2012, 2013.

Identified peridomestic pests in Urbana-Champaign, IL, May-October 2008.

Volunteer at Robert Allerton Park, Monticello, IL, 2004-2005.