

CURRICULUM VITAE  
**WILLIAM R. MORRISON III, PH.D. CANDIDATE**

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EDUCATION

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- 2010-2014 (projected) Ph.D., Entomology; Ecology, Evolutionary Biology & Behavior  
Michigan State University, East Lansing, MI
- 2007-2009 M.S., Ecology, Evolution and Systematics  
University of Munich, Munich, Germany
- 2002-2006 B.A., *cum laude*, Biology; German  
Kalamazoo College, Kalamazoo, MI
- 1998-2002 H.S. Diploma  
Highland High School, Gilbert, AZ

RESEARCH EXPERIENCE

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- Jun '10-current Ph.D. thesis, Vegetable Entomology, MSU, East Lansing, MI
- Focus: integrated pest management, chemical ecology, biological control, spatial distribution, and development of the asparagus miner (*Ophiomyia simplex*; Diptera: Agromyzidae). Combined various methodologies, including: field studies, headspace collection (in the field, greenhouse and lab), GC-MS, y-tube choice tests, environmental chamber experiments, conservation biological control habitat manipulations, multivariate and univariate statistical analyses in R, among others.
- Jun '10-Aug '12 Graduate Research Assistant, Department of Entomology, MSU, East Lansing, MI
- Helped with the collection and write-up of data for asparagus-related projects, including: data for pesticide trials with the asparagus miner and asparagus beetle, managing undergraduate workers in the field, establishing asparagus research fields, communicating with growers, aiding with writing asparagus reports and summaries for extension-related purposes, among others.
- Oct '09-May '10 Laboratory Technician, W.K.Kellogg Biological Station, Hickory Corners, MI
- Worked in Dr. Jay Lennon's laboratory using microbiological techniques (preparing cell media, maintaining cultures, setting up and sampling from chemostats, isolating isogenic lines of bacteria and phage, making agar plates, cryopreserving samples, performing competition experiments using cyanobacteria and phage) to evaluate the cost of resistance in cyanobacteria to various phage strains from marine systems.
- Oct '08-Oct '09 Master's Thesis, Behavioral Ecology Group, LMU, Munich, Germany
- Focus: investigation of the ecological, chemical and genetic differentiation of two morphologically similar species, *Lasius platythorax* and *Lasius niger* to understand coexistence and speciation. Combined field observations (baiting, activity patterns, niche differentiation and food sources), microsatellite analysis and cuticular hydrocarbon analysis with GC-MS
- Aug'08-Oct '09 Laboratory Assistant, Department of Ecology, Munich, Germany
- Maintained ant colonies by feeding, watering and cleaning artificial nests; reviewed manuscripts and reports in working group, ensuring fluency of English; helped transfer collected ants from the field into artificial nests.
- Aug '08-Oct '08 Research Assistant, W.K. Kellogg Biological Station, Hickory Corners, MI

- Worked on a large Department of Energy-funded project to assess the ecosystem services of biofuel crops around Southwest Michigan. Specifically, the plant biodiversity of restored prairies versus switchgrass fields were evaluated. In the form of personal research, also evaluated the biodiversity of ants, collecting and identifying specimens down to genus.
- May '08-Aug '08 Lab Rotation, Technische Universität München (TUM), Munich, Germany
- Assessed impact of oak species (*Quercus rubra* or *Quercus robur*) on the development of gypsy moth (*Lymantria dispar*) larvae over a 39-day period. Worked with SPSS and SigmaPlot to analyze data; wrote 38 page report detailing findings in typical scientific format and created and presented a poster about project. Spent over 300 hours on the project.
- Jan-Jun '08/Jan '09 Assistant to the Evolution, Ecology & Systematics Coordinator, Munich, Germany
- Updated contact information database for program coordinators across Europe by contacting programs; revised and updated EES program website; translated the Rules and Study Regulations for the EES program from German to English.
- Nov '07-Feb '08 Lab Rotation, Ludwigs-Maximilians Universität, Munich, Germany
- Investigated role of the poison gland in a novel species of mushroom-feeding ant (*Euprenolepsis procerus*), its role in colony communication, and the chemical composition of the poison gland extract using GC-MS. Involved over 120 hours of laboratory time, excluding time taken for a literature review, scientific write-up of the results and an oral presentation of results to working group.
- Feb-Aug '07 Research Assistant, W.K Kellogg Biological Station, Hickory Corners, MI
- Worked in a plant lab on a project involving studying the effects of soil nutrient heterogeneity on plant biodiversity. Duties included biomass clipping, weighing, sorting; plant identification in the field; plant censusing using cover classes and stem counts; data entry; fertilizer weighing and application by hand; greenhouse experiment maintenance including raising seedlings; and other various tasks.
- Jul-Dec '06 Research Intern, Archbold Biological Station, Lake Placid, FL
- Worked half of the time for director of the MacArthur Agro-Ecology Research Center (MAERC). Helped other interns and Ph.D. students with their research in the field. Worked on various field projects dealing with wetland ecology in a cattle ranch setting, ranging from effects of plant-plant competition to the effects of cattle grazing and fire. Other half of time: formulated, designed and completed personal independent research project focusing on the effects of different plant communities on the abundance, diversity and composition of the associated invertebrate fauna. Gained experience with ordination, diversity indices and other analytical tools.
- Mar.-Jun '06 Research Apprenticeship, Kalamazoo College, Kalamazoo, MI
- Identified ant species to genus and morphospecies using dichotomous keys as a part of a larger biodiversity assessment project. Involved 50 hours of lab time.
- Jan.-Mar '06 Independent Research Study, Kalamazoo College, Kalamazoo, MI
- Evaluated focal arthropod (spiders, beetles, etc.) taxa as bioindicators of larger biodiversity in old-field sites. Sorted and catalogued to order and morphospecies; analyzed and interpreted diversity data. Spent over 120 hours on project, 108 hours of which were in the lab.

#### GRANTS, SCHOLARSHIPS, AND FELLOWSHIPS

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- Jan '14 Hutson Travel Grant (\$400), East Lansing, MI
- Nov '13 Vegetable Industry Scholarship (\$1,000), Michigan Vegetable Council, East Lansing, MI
- Sep '13 Monsanto Student Travel Award (\$1,830) through ESA, East Lansing, MI
- Jun '13 Hutson Professional Research Award (\$1,200), East Lansing, MI
- Nov '12 Monsanto Student Travel Scholarship (\$424), East Lansing, MI
- Sep '12 Hutson Travel Grant (\$400), East Lansing, MI
- Aug '12-Current USDA NIFA Predoctoral Fellowship (\$37,121/yr, 2 years), East Lansing, MI

Sep '11	Hutson Travel Grant (\$400), East Lansing, MI
Jan '11	North-Central ESA Presidential Travel Scholarship (\$250), East Lansing, MI
Dec '10	Hutson Travel Grant (\$400), East Lansing, MI
Aug '10-Current	C.S. Mott Predoctoral Fellowship in Sustainable Agriculture, East Lansing, MI (\$11,000/yr, 3 years, based on outstanding previous achievement)
Mar '09	LMU Evolution, Ecology and Systematics Travel Grant (\$300), Munich, Germany
Feb '09	LMU Evolution, Ecology and Systematics IRT3 Fund (\$920), Munich, Germany
Dec '08	DAAD Gruppenreise Stipendium (Group Travel Grant, \$2,710), Munich, Germany
Nov '08	LMU Evolution, Ecology and Systematics Travel Grant (\$1,645), Munich, Germany
Mar '08	LMU Evolution, Ecology and Systematics Travel Grant (\$450), Munich, Germany
Sep '02-Jun '06	Kalamazoo College Honors Scholarship (\$6,000/yr, 4 years), Kalamazoo, MI

## TEACHING

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Feb '14	Guest Lecturer for undergrad-level ENT205: Integrated Pest Management, East Lansing, MI.
Jan '13-May '14	TA for grad-level Tritrophic Interactions: Theory and Practice (ENT890), East Lansing, MI <ul style="list-style-type: none"> <li>Gave lab demonstrations, guest lectures (topic: ant-plant-herbivore mutualisms), and aided students with their research in the lab</li> </ul>
Dec '13	Guest Lecturer for undergrad-level ENT404: Biological Control, East Lansing, MI
Oct '13	Host/Organizer (co-presenter), Kalamazoo College's Entomology Course (BIOL396) Field Trip, East Lansing, MI
Oct '13	Guest Lecturer for undergrad-level ZOL355: Species Distributions/Patterns, E. Lansing, MI
Oct '13	Organizer, "A Bug's Life," 4H Summer Science Day Workshop, Hardinsburg, KY <ul style="list-style-type: none"> <li>Taught 4<sup>th</sup> &amp; 5<sup>th</sup> Grade elementary students (8-9 yr olds) how to identify and collect insects, and the benefits that accrue to humans through ecosystem services. Engaged students through interactive activities such as eating insects (lollipops and flavored insects), as well as holding live insects. Was part of the 4H Breckenridge and Webster County Environmental Camp.</li> </ul>
Sep '13	Guest Lecturer for undergrad-level ENT205: Integrated Pest Management, East Lansing, MI
Mar '13	Guest Lecturer for undergrad-level ENT205: Integrated Pest Management, East Lansing, MI
Feb – April '13	Proctor for undergrad-level Pests, Society & Environment (ENT205), East Lansing, MI
Oct - Dec '12	Proctor for undergrad-level Pests, Society & Environment (ENT205), East Lansing, MI
Sep '12-Dec '12	TA for grad-level Tritrophic Interactions : Theory & Practice (ENT890), East Lansing, MI
May '12	Co-organizer, 4H Summer Bug Out Workshop, Dixon, KY <ul style="list-style-type: none"> <li>Taught elementary students (7-10 yr olds) how to identify, collect, and preserve insects. Also, introduced students to forensic entomology through activities, explained the importance of arthropods to humans, and why social insects are so successful.</li> </ul>
Sep '11-Current	Tour guide at the MSU Bug House for Pre-K-12 children, East Lansing, MI
Jul '11	Co-organizer, 4H Summer Bug-Out Workshop, Dixon, KY <ul style="list-style-type: none"> <li>Was invited to teach 7-10 year old children how to identify, collect and preserve insects as part of a 4H summer program for half a day. Came up with age-appropriate curriculum, performed demonstrations and walked children through the process.</li> </ul>
Oct '08-Feb '09	TA/Tutorial Instructor for Evolutionary Ecology Course, Munich, Germany <ul style="list-style-type: none"> <li>Instructed Bachelor/Diplom students for 14 weeks, explaining concepts, grading homework, answering questions from the main lecture.</li> </ul>
April '08-Jul '08	Biology Career Mentor to Bachelor Students, Munich, Germany <ul style="list-style-type: none"> <li>Advised 10 first-year German bachelor students (in German) about careers in biology, giving them tours of research labs, discussing current topics in biology and why people choose biology.</li> </ul>
Sep '03-Dec '03	German Mentor at Woodward Elementary, Kalamazoo, MI <ul style="list-style-type: none"> <li>Taught 4<sup>th</sup> grade students German through weekly meetings and facilitated creative learning.</li> </ul>
Mar '03-Jun '03	Science Mentor at Northglade Elementary, Kalamazoo, MI <ul style="list-style-type: none"> <li>Guided 4<sup>th</sup> grade students through the designing, construction of an experiment and subsequently making a poster.</li> </ul>

## PEER-REVIEWED PUBLICATIONS

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- Morrison, III W.R.** and Z. Szendrei. In prep. The common (*Crioceris asparagi* (L.) and spotted (*Crioceris duodecimpunctata* (L.)) asparagus beetles: Identification, life cycle and management.
- Morrison, III W.R.**, and Z. Szendrei. In prep. Identification and evaluation of asparagus semiochemicals and their ecological interactions with its arthropod community.
- Morrison, III W.R.**, G. Gibson and Z. Szendrei. In Review. The natural enemy community of the asparagus miner (*Ophiomyia simplex* Loew; Diptera: Agromyzidae). *Environmental Entomology*.
- Morrison, III W.R.**, J.A. Andresen, and Z. Szendrei. In press. The development of the asparagus miner (*Ophiomyia simplex* Loew; Diptera: Agromyzidae) in temperate zones: a degree-day model. *Pest Management Science*. Impact factor: 2.59, Entomology 5/87
- Morrison, III W.R.** and Z. Szendrei. 2013. Patterns of spatial and temporal distribution of the asparagus miner (Diptera: Agromyzidae): implications for management. *Journal of Economic Entomology* 106(3): 1218-1225. Impact factor: 1.70, Entomology 20/87
- Morrison, III W.R.**, J.T. Waller, A.C. Brayshaw, D.A. Hyman, M.R. Johnson and A.M. Fraser. 2012. Evaluation of multiple arthropod taxa as indicators of ground-dwelling invertebrate biological diversity within open fields. *Great Lakes Entomologist* 45 (1-2): 40-52. Impact factor: n/a
- Morrison, III W.R.** and V. Witte. 2011. Strong differences in chemical recognition cues between two closely related species of ants from the genus *Lasius* (Hymenoptera: Formicidae). *Journal of Evolutionary Biology* 24 (11): 2389-2397. Impact factor: 3.66, Ecology 32/134
- Morrison, III W.R.**, J. Tuell, M.K. Hausbeck and Z. Szendrei. 2011. Constraints on asparagus production: The interaction of asparagus, *Ophiomyia simplex* (Diptera: Agromyzidae) and *Fusarium* spp. *Crop Science* 51: 1-10. Impact factor: 2.02, Agronomy 20/80
- Morrison III, W.R.** and P.J. Bohlen. 2010. Influence of Vegetation on Invertebrate Communities in Grazed Freshwater Wetlands. *Southeastern Naturalist* 9(3): 453-464. Impact factor: 0.317
- Morrison III, W.R.**, J.L. Lohr, P. Duchon, R. Wilches, D. Trujillo, M. Mair, S.S. Renner. 2009. The impact of taxonomic change on conservation: does it kill, can it save, or is it just irrelevant? *Biological Conservation* 142: 3201-3206. Impact factor: 3.50, Ecology 27/134

#### SCHOLARLY PRESENTATIONS AND SYMPOSIA

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- Morrison, III W.R.** The buzz about entomology: Engaging the public in science. Moderator, NCB-SAC student-organized symposium, 69<sup>th</sup> Annual Meeting of the North Central Branch of the Entomological Society of America, Des Moines, IA, March 2014.
- Morrison, III W.R.** and Z. Szendrei. Biological control and degree-day modeling yield promising results for managing the asparagus miner (Diptera: Agromyzidae) in commercial asparagus fields. 69<sup>th</sup> Annual Meeting of the North Central Branch of the Entomological Society of America, Des Moines, IA, March 2014.
- Morrison, III W.R.** and Z. Szendrei. A grower's best friend: Natural enemies of the asparagus miner. Poster presentation, 10<sup>th</sup> Annual Meeting of the Great Lakes Vegetable Working Group, Amherst, NY, February 2014.

- Invited poster:* **Morrison, III W.R.** and Z. Szendrei. Using baits in the management of the asparagus miner. Poster presentation, Annual MSU Interdepartmental Plant Science Fellowship Recruiting Weekend for potential graduate students, East Lansing, MI, February 2014.
- Invited talk:* **Morrison, III W.R.** The integrated pest management and tritrophic interactions of the asparagus miner, a not-so-minor pest of asparagus. Ecology, Evolutionary Biology and Behavior Colloquium Series, Michigan State University, East Lansing, MI, February 2014.
- Invited talk:* **Morrison, III W.R.** Get your tarsi off my asparagus: Exploiting ecological and behavioral knowledge in an integrated pest management program for the asparagus miner (Diptera: Agromyzidae). Oral presentation, EEBB Program 2013/2014 Distinguished Student Speaker, Michigan State University, East Lansing, MI, January 2014.
- Morrison, III W.R.** and Z. Szendrei. Making a feast out of a fly: The asparagus miner (*Ophiomyia simplex*; Diptera: Agromyzidae) and the composition, longevity, and flower preference of its parasitoid community. Oral presentation, 61<sup>st</sup> Annual Meeting of the Entomological Society of America, Austin, TX, November 2013.
- Invited talk:* Szendrei, Z., **W.R. Morrison III**, and J. Jubenville. From asparagus to potatoes: vegetable IPM in Michigan. Oral presentation, 61<sup>st</sup> Annual Meeting of the Entomological Society of America, Austin, TX, November 2013.
- Morrison, III W.R.** and Z. Szendrei. Spatiotemporal distribution of the asparagus miner (Diptera: Agromyzidae) in commercial asparagus plantings: Using spatial ecology to inform sustainable pest management. Oral Presentation, 11<sup>th</sup> Annual Plant Science Graduate Research Symposium, East Lansing, MI, March 2013.
- Morrison, III W.R.** and Z. Szendrei. To attract or repel? Asparagus miner management with baits. Poster presentation, 9<sup>th</sup> Annual Meeting of the Great Lakes Vegetable Working Group, West Lafayette, IN, February 2013.
- Morrison, III W.R.** and A. Bryant. Variety is the Spice of Life: Biodiversity in Agricultural Systems, accepted symposium. Co-organizer and co-moderator, 60<sup>th</sup> Annual Meeting of the Entomological Society of America, Knoxville, TN, November 2012.
- Morrison, III W.R.** and Z. Szendrei. Developing a bait for asparagus miner (Diptera: Agromyzidae) monitoring in commercial asparagus fields. Oral Presentation, 60<sup>th</sup> Annual Meeting of the Entomological Society of America, Knoxville, TN, November 2012.
- Morrison, III W.R.** and Z. Szendrei. Expanding the grower's toolkit: Development of a degree-day model for the asparagus miner (*Ophiomyia simplex*; Diptera: Agromyzidae). Oral presentation, 10<sup>th</sup> Annual Plant Science Graduate Research Symposium, East Lansing, MI, April 2012.
- Morrison, III W.R.** and Z. Szendrei. Timing management actions for the asparagus miner: a degree-day model. Poster Presentation, 8<sup>th</sup> Annual Meeting of the Great Lakes Vegetable Working Group, East Lansing, MI, February 2012.
- Morrison, III W.R.** and Z. Szendrei. Developing a degree-day model to improve asparagus miner (Diptera: Agromyzidae) management in Michigan. Oral presentation, 59<sup>th</sup> Annual Meeting of the Entomological Society of America, Reno, NV, November 2011.
- Morrison, III W.R.** and Z. Szendrei. The parasitoid community of the asparagus miner (Diptera: Agromyzidae), a putative vector of *Fusarium* spp. in commercial asparagus fields in Michigan. Poster

- presentation, 9<sup>th</sup> Annual Plant Science and Graduate Student Research Symposium, East Lansing, MI March 2011.
- Morrison, III W.R.** and Z. Szendrei. The parasitoid community of the asparagus miner (Diptera: Agromyzidae) in commercial asparagus fields in Michigan. Poster presentation, 66<sup>th</sup> Annual North-Central Branch Meeting of the Entomological Society of America, Minneapolis, MN, March 2011.
- Morrison, III W.R.** and V. Witte. Traces of evolution: genetic, chemical and ecological differentiation in two sibling species of the genus *Lasius* (Hymenoptera: Formicidae). Oral presentation, 58<sup>th</sup> Annual Meeting of the Entomological Society of America, San Diego, CA, December 2010.
- Invited talk:* **Morrison, III W.R.** Biological career networking interviews, Professional Development Institute (PDI), Kalamazoo College, Kalamazoo, MI, February 2010.
- Morrison, III W.R.** and V. Witte. Ecology, genetics and chemistry: What part have they played in the speciation of two sibling species from the genus *Lasius*? Oral presentation, 3<sup>rd</sup> Annual Evolution, Ecology and Systematics Conference, University of Munich, Munich, Germany, October 2009.
- Morrison III, W.R.** and V. Witte. Two closely related but vastly different sibling species from the genus *Lasius*. Oral presentation, 3<sup>rd</sup> Annual Central European Workshop in Myrmecology, Frauenchiemsee, Germany, October 2009.
- Morrison, III W.R.** and V. Witte. Ecology, chemistry and genetics in two sibling ant species from the genus *Lasius* (Hymenoptera: Formicidae): What roles have they played in speciation? Oral presentation, 39<sup>th</sup> Annual Conference of the Ecological Society of Germany, Switzerland and Austria, Bayreuth, Germany, September 2009.
- Morrison III, W.R.**, J.L. Lohr, P. Duchon, R. Wilches, D. Trujillo, M. Mair, S.S. Renner. Bad and good taxonomy: does it kill, can it save, or is it just irrelevant? Poster presentation, 14<sup>th</sup> Annual Graduate Evolution Conference, German Zoological Society (DZG), Munich, Germany, March 2009.
- Morrison III, W.R.** and R. Schopf. English Oak (*Quercus robur*) and Red Oak (*Quercus rubra*): Preferences, effects on development and nutrition in the Gypsy Moth (*Lymantria dispar* L.). Poster presentation, 2<sup>nd</sup> Annual Evolution, Ecology and Systematics Conference, University of Munich, Munich, Germany, October 2008.
- Fraser, A.M., J.T. Waller, **W.R. Morrison III**, A.C. Brayshaw, D.A. Hyman and M.R. Johnson. Evaluation of multiple arthropod taxa as indicators of ground-dwelling invertebrate biological diversity within open meadows. Poster presentation, 55<sup>th</sup> Annual Meeting of the Entomological Society of America, San Diego, California, December 2007.
- Morrison III, W.R.** Towards a caring biology: An ethical approach towards biology. Oral presentation, 23<sup>rd</sup> Annual Diebold Symposium, Kalamazoo College, Kalamazoo, Michigan, May 2006.

## EXTENSION

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### *Publications, Bulletins, Proceedings, and Articles*

- Morrison, III W.R.** and Z. Szendrei. In prep. Asparagus IPM bulletin. Michigan State University, East Lansing, MI.

- Bryant, A., **W.R. Morrison III**, B. Werling, N. Quinn, and Z. Szendrei. In prep. Insect pests in Michigan cucurbits. Michigan State University, East Lansing, MI.
- Morrison, III W.R. and Z. Szendrei. 2013. Biological control of pests through parasitoids and predators. Proceedings of the Great Lakes Fruit, Vegetable & Farm Expo, Grand Rapids, MI, 1-4.
- Szendrei, Z. and **W.R. Morrison III**. 2013. Asparagus miner integrated management. Proceedings of the Great Lakes Fruit, Vegetable & Farm Expo, Grand Rapids, MI, 1-3.
- Szendrei, Z. and **W.R. Morrison III**. 2013. Asparagus miner management. Hand-out, MSU Summer Vegetable Research Tour, 1-4.
- Morrison, III W.R.** 2013. The asparagus miner. Wikipedia, Wikimedia Foundation. Accessible at: [http://en.wikipedia.org/wiki/Asparagus\\_miner](http://en.wikipedia.org/wiki/Asparagus_miner)
- Szendrei, Z., A. Byrne and **W.R. Morrison III**. 2012. Asparagus Miner Integrated Management. Proceedings of the Great Lakes Fruit, Vegetable & Farm Expo, Grand Rapids, MI, 1-2.
- Szendrei, Z. and **W.R. Morrison III**. 2012. The asparagus miner and its natural enemies in Michigan. Michigan State University, Extension News, published 3/19/2012. Accessible at: [http://news.msue.msu.edu/news/article/the\\_asparagus\\_miner\\_and\\_its\\_natural\\_enemies\\_in\\_michigan](http://news.msue.msu.edu/news/article/the_asparagus_miner_and_its_natural_enemies_in_michigan)
- Morrison III, W.R.** 2011. *Macrocentrus cingulum* (Hymenoptera: Braconidae) natural enemy factsheet. Biological control: A guide to natural enemies in North America. Department of Entomology, Cornell University. Accessible at: <http://www.biocontrol.entomology.cornell.edu/parasitoids/macrocentrus.html>
- Szendrei, Z. and **W.R. Morrison III**. 2011. Factsheet: Asparagus Miner. Department of Entomology, Michigan State University, East Lansing, MI. Accessible at: <http://bookstore.msue.msu.edu/Bulletin/PDF/E3143.pdf>
- Szendrei, Z. and **W.R. Morrison III**. 2010. Asparagus miner research. Proceedings of the Great Lakes Fruit, Vegetable & Farm Expo.
- Szendrei, Z. and **W.R. Morrison III**. 2010. Asparagus miner integrated pest management research update. Vegetable Crop Advisory Team Alert 25(18): 1-2. Accessible at: <http://www.ipm.msu.edu/cat10veg/V09-08-10sm.pdf>
- Meetings, Workshops, and Symposia*
- Invited talk:* **Morrison III, W.R.** Predators and parasitoids. Oral presentation, Great Lakes Fruit, Vegetable & Farm Expo, December 2013, Grand Rapids, MI, USA.
- Morrison III, W.R.** & Z. Szendrei. A grower's best friend: Natural enemies of the asparagus miner. Poster presentation, Great Lakes Fruit, Vegetable & Farm Expo, December 2013, Grand Rapids, MI, USA.
- Morrison III, W.R.**, J.A. Andresen & Z. Szendrei. Accessing and using the new asparagus miner degree-day model. Poster presentation, Great Lakes Fruit, Vegetable & Farm Expo, December 2013, Grand Rapids, MI, USA.
- Szendrei, Z. and **W.R. Morrison III**. Asparagus miner management. Oral presentation, MSU Summer Vegetable Research Tour, September 5<sup>th</sup>, 2013.

- Szendrei, Z. and **W.R. Morrison III**. Asparagus miner management update. Oral presentation, Oceana Asparagus Day, March 12<sup>th</sup>, 2013.
- Szendrei, Z., **W.R. Morrison III**, & M. Gardiner. Workshop co-organizer, session entitled, “Biological Control,” at Great Lakes Fruit, Vegetable & Farm Expo, December 2012, Grand Rapids, MI, USA. Attendance: 109 people.
- Morrison III, W.R.** and Z. Szendrei. To attract or repel? Asparagus miner management with baits. Poster session, Great Lakes Fruit, Vegetable & Farm Expo, December 2012, Grand Rapids, MI, USA.
- Szendrei, Z. and **W.R. Morrison III**. Asparagus insect update. Oral presentation, Oceana Asparagus Day, March 8<sup>th</sup>, 2012.
- Morrison III, W.R.** and Z. Szendrei. Timing management actions for the asparagus miner: a degree day model. Poster session, Great Lakes Fruit, Vegetable and Farmer’s Market Expo, Grand Rapids, MI, December 2011.
- Szendrei, Z. and **W.R. Morrison III**. Asparagus miner study from summer 2010 & biological control. Oral presentation, Oceana Asparagus Day, March 11<sup>th</sup>, 2011.
- Szendrei, Z. and **W.R. Morrison III**. Asparagus miner research. Asparagus session. Oral presentation, Great Lakes Fruit, Vegetable & Farm Expo, Grand Rapids, Michigan, December 2010.
- Szendrei, Z. and **W.R. Morrison III**. Asparagus miner integrated pest management. Oceana Field Day, Organizer: N. Myers. Sept. 7, 2010.

#### PROFESSIONAL ASSOCIATION MEMBERSHIP

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American Association for the Advancement of Science (since 2011), Ecological Society of America (since 2010), Michigan Entomological Society (since 2010), Entomological Society of America (Since 2010)

#### PROFESSIONAL SERVICE

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*For the scientific/institutional community*

##### Referee Service

Annals of the Entomological Society of America, Journal of Economic Entomology, Journal of Integrated Pest Management, Environmental Entomology (ESA journals from Dec ’10 onwards), Crop Science (Jan ’11 onwards), Inudstrial Crops and Products (Jun ’13 onwards), PLoS ONE (Jan ’14 onwards)

##### Non-referee Service

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| Mar ’14           | Organized and hosted a visit by Dr. Ann Fraser (Kalamazoo College) to give a seminar as part of the Ecology, Evolutionary Biology and Behavior seminar series, East Lansing, MI. |
| Mar ’14           | Judge, Graduate Academic Conference, MSU, East Lansing, MI   |
| Feb ’14 – Mar ’14 | Member, Evaluations Committee for the 12 <sup>th</sup> Annual Plant Science Graduate Student Research Symposium, East Lansing, MI.   |
| Feb ’14 – Mar ’14 | Chairperson, Programming Committee for organizing the 12 <sup>th</sup> Annual Plant Science Graduate Student Research Symposium, East Lansing, MI.                               |
| Feb ’14           | Host for potential graduate students to the Department of Entomology, part of the Annual MSU Plant Science Fellowship Recruiting Weekend, East Lansing, MI                       |



Jul '13	Poster Evaluator, Agriculture and Animal Science Section, Mid-Michigan Symposium for Undergraduate Research Experiences, East Lansing, MI
Jun '13 – Current	Student Rep, ESA-NCB Professional Awards Committee, East Lansing, MI
Mar '13 – Mar '14	Student Rep, External Chairperson Search Committee, Dept. Entomology, East Lansing, MI
Jan '13 – Current	Student Rep, Entomological Society of America's North-Central Branch Honorary Awards Committee, East Lansing, MI
Jan '13 – Apr '13	Member & Co-organizer, Programming Committee, Plant Science Graduate Student Research Symposium, East Lansing, MI
Dec '12 – Jan '14	Student Rep. on Graduate Committee, Dept. Entomology, East Lansing, MI
Nov '12 – current	MSU Student Rep, Entomological Society of America's North-Central Branch Student Activities Committee, East Lansing, MI
Apr '12 – current	Member on the Ecology, Evolutionary Biology and Behavior Seminar Selection Committee, East Lansing, MI
Oct '11	Organized & hosted a visit by Dr. Ann Fraser (Kalamazoo College) to speak at the Dept. Entomology Seminar Series, East Lansing, MI
Dec '10 – Jan '14	Student Rep. on Curriculum Committee, Dept. Entomology, East Lansing, MI
Dec '10 – current	Member, Graduate & Undergraduate Entomology Student Society, Dept. Entomology, East Lansing, MI
	Fulfilled roles as Secretary (Aug '11 – Dec '12), Webmaster (Dec '11 – Dec. '12), and Vice-President (Dec '12 – Dec '13)
Jan '09 – Jul '09	Co-organizer, Evolution, Ecology & Systematics Seminar Series, Munich, Germany <ul style="list-style-type: none"> <li>Organized the EES seminar series, inviting speakers from around Europe, managing logistics of travel for speaker to and from university, booking lodging, organizing meetings between speakers and laboratory groups, advertising for it and introducing speakers at their talk.</li> </ul>
Dec '08 – Oct '09	Treasurer, Volvox Graduate Student Network, Munich, Germany

*For the broader community*

Mar '14	Volunteer, Entomology Statewide Science Olympiad Tournament, East Lansing, MI.
Oct '13	MSU Bug House Halloween Open House for kids, East Lansing, MI
Sep '13	Bug Leader, Cub Scout Bug Zoo, Jackson, MI
Mar '13	Middle School Girls Entomology Workshop, East Lansing, MI <ul style="list-style-type: none"> <li>Co-organized a 4hr workshop entitled, "Sharing is Caring: How Social Insects Rule the Planet" as part of the Graduate Women in Science's 6<sup>th</sup> Grade Math &amp; Science Day for Girls with hands-on demonstration with live insects.</li> </ul>
Mar '13	MSU Bug House Spring Open House for kids, East Lansing, MI
Mar '12	Middle School Girls Entomology Workshop, East Lansing, MI <ul style="list-style-type: none"> <li>Co-organized a 4 hr workshop entitled "Hide-and-Go-Seek: How Insects Escape Their Enemies" as part of the Graduate Women in Science's 6<sup>th</sup> Grade Math and Science Day for girls with hands-on demonstrations and live insects.</li> </ul>
Oct '11	MSU Bug House Halloween Open House for kids, East Lansing, MI
Oct '09 – Jun '10	Board Member and Secretary, Kalamazoo Collective Housing (nonprofit), Kalamazoo, MI
May '07 – Aug '07	Unpaid Intern, Fair Food Matters' Growing Matters Garden, Kalamazoo, MI <ul style="list-style-type: none"> <li>Volunteered to aid with maintenance, harvesting, market preparation and watering for this organic garden.</li> </ul>

AWARDS

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Jan '14	Invited Ecology, Evolutionary Biology and Behavior Distinguished Student Speaker (\$500)	East Lansing, MI
Mar '13	2 <sup>nd</sup> Place in the Applied Oral Competition of the 11 <sup>th</sup> Annual Plant Science and Graduate Student Research Symposium	East Lansing, MI
Apr '12	2 <sup>nd</sup> Place in the Applied Oral Competition of the 10 <sup>th</sup> Annual	East Lansing, MI

	Plant Science and Graduate Student Research Symposium	
Feb '12-Present	Golden Key International Honour Society	East Lansing, MI
Mar '11	1 <sup>st</sup> place in Applied Poster Competition of the 9 <sup>th</sup> Annual Plant Science and Graduate Student Research Symposium	East Lansing, MI
Sep '05-Jun '06	Academic Honors	Kalamazoo C.
Feb '06	2006 Senior Leadership Recognition Award	Kalamazoo C.
	<ul style="list-style-type: none"> <li>Acknowledges "...seniors who exemplify 'enlightened leadership' and have consistently set positive examples for others to follow." From the description about those who receive the award: "They exhibit positive attitude, serve as role models to other students, and show dedication even in times of adversity."</li> </ul>	
Sep '05	Who's Who Among Students in American Universities & Colleges	
	<ul style="list-style-type: none"> <li>Was 1 of 32 students nominated by Kalamazoo College for this honor. <ul style="list-style-type: none"> <li>Students selected on the basis of "academic achievement, service to community, leadership in extracurricular activities, and potential for continued success."</li> </ul> </li> </ul>	
Sep '04-Jun '05	Academic Honors	Kalamazoo C.
Nov '03-Jun '06	Alpha Lambda Delta	Kalamazoo C.
	<ul style="list-style-type: none"> <li>Is an honor society for students who earn a GPA of 3.6 or above in their first year at the college.</li> </ul>	
Sep '02-Jun '03	Academic Honors	Kalamazoo C.
Sep '02-Jun '05	Dean's List for five different quarters	Kalamazoo C.

#### ACADEMIC ORGANIZATION INVOLVEMENT & LEADERSHIP

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Jan '11-Mar '13	Linnaean Team Member for MSU, East Lansing, MI	
	<ul style="list-style-type: none"> <li>Placed 3<sup>rd</sup> in North-Central Region of ESA in March 2011</li> </ul>	
Sep '05-Jun '06	Leadership in Energy and Environmental Design (LEED) Campaign, Kalamazoo, MI	
	<ul style="list-style-type: none"> <li>With two other dedicated students, helped lead an intensive mobilization campaign of students, faculty, and alumni at Kalamazoo College to ensure that LEED Silver Certification was obtained for a building (Hicks Center) being newly renovated. LEED is a set of nationally recognized standards of construction for sustainability administered by the U.S. Green Building Council.</li> </ul>	
Sep '04-Jun '06	DIRT (Digging in Renewable Turf), Kalamazoo, MI	
	<ul style="list-style-type: none"> <li>Helped to start and found this organic Garden club. Helped write constitution, make website, and obtained official recognition for the organization from campus administration.</li> <li>Garden is designed to help students and members develop eco-literacy.</li> <li>Was elected President of the organization for 2005-2006 academic year. Duties included making sure that events happened, ensuring that topical committees were formed, preparing a budget and subsequently defending it and in general providing logistical support for the organization. Organized workdays in garden and communicated to listserv.</li> </ul>	
Jan '03-Jun '06	The Mud & Mayhem Society, Kalamazoo, MI	
	<ul style="list-style-type: none"> <li>Was the "alternative" newspaper: wrote opinion articles on a weekly basis for this paper.</li> <li>Sep '05 – Jun '06: elected Lord President of the Mud and Mayhem Society</li> </ul>	
Sep '03-Jun '06	Sustainable Living-Learning Housing Unit (SLLHU), Kalamazoo, MI	
	<ul style="list-style-type: none"> <li>Over the course of the 2003-2004 academic year, co-led a group of 9 people that came up with a proposal for a Living-Learning Unit. These are houses that Kalamazoo College apportions for groups with outstanding proposals to use the houses and the money that the college gives the students in the house for the betterment of the campus community. Written proposal must be submitted, and subsequently defended in front of a selection committee.</li> <li>SLLHU was approved by the campus administration for the 2004-2005 academic year and re-approved for the 2005-2006 academic year.</li> <li>Spring 2006, House Liaison, responsible for communicating between the house and the college administration, giving updates, holding weekly meetings, taking minutes, and sending those minutes out afterwards by e-mail.</li> </ul>	
Sep '02-Jun '06	EnvOrg (environmental organization)	Kalamazoo C.
	<ul style="list-style-type: none"> <li>Elected President for 2005-2006 year. Led weekly meetings, wrote meeting notes up, communicated information to listserv, and ensured that logistical items happened.</li> </ul>	

- Took many leadership roles while in organization including: organizing panel discussions with people from organizations in community, organizing events that bring student organizations, music, food, and activities together, making advertisements, contacting local newspapers about events, making a new website for the organization using Dreamweaver, and leading community service projects.

#### LANGUAGE COMPETENCY

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- Native English-speaker
- Passed the Goethe-Institut's Mittelstufenprüfung; fluent in writing, speaking and reading German.
- Studied abroad for six months at Friedrich-Alexander Universität, Erlangen-Nürnberg, Germany
- Lived in Munich, Germany for two years.

#### REFERENCES

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