**Holly M. Martinson, PhD**

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Research Interests

* Effects of global environmental change on plant-insect interactions
* Predicting impacts and spread of invasive insects
* Ecological synthesis via meta-analysis and distributed ecological experiments
* ORCID: <http://orcid.org/0000-0003-1462-0051>

Education

2009 Ph.D., Behavior, Ecology, Evolution, and Systematics. University of Maryland, College Park, MD. *Dissertation:* *Critical patch sizes and the spatial structure of salt marsh communities*

2001 B.S. in Biology, Minor in English. Duke University, Durham, NC

Professional Experience

2024-present Chair, Department of Biology. McDaniel College, Westminster, MD

2023-present Associate Professor of Biology. McDaniel College, Westminster, MD

2017-2023 Assistant Professor of Biology. McDaniel College, Westminster, MD

2016-2017 Visiting Assistant Professor of Biology. McDaniel College, Westminster, MD

2010-2016 Postdoctoral Scientist. Department of Entomology, University of Maryland, College Park, MD

2001-2003 Research Technician, Center for Blood Research, Harvard University Medical School, Boston, MA

Teaching Experience

BIO 4493 Biology Senior Colloquium, McDaniel College, Instructor

BIO 2204 Botany Lecture and Lab, McDaniel College, Instructor

BIO 1111 Principles of Biology, McDaniel College, Instructor

BIO 3317 Ecology Lecture and Lab, McDaniel College, Instructor

BIO 1117 Topics in Biology: Insects and Society, McDaniel College, Instructor

ENTM 788C Entomology Colloquium, University of Maryland, Co-Instructor

BSCI 103 The World of Biology, University of Maryland, Guest Lecturer

BSCI 103 The World of Biology, Laboratory Teaching Assistant

HONR 248 Extinction Risk, University of Maryland, Guest Lecturer

OTS-TIP Tropical Field Biology, Organization for Tropical Studies & Duke University Talent Identification Program, Costa Rica, Teaching Assistant

Awards & Grants

2024 Faculty Mentor for Student Experiential Learning Award for travel to the Entomological Society of America, Phoenix, AZ

2024 Student-Faculty Collaborative Summer Research Grant: Assessing insect population trends at McDaniel using Malaise traps, Principal Investigator

2023 Faculty Mentor for Student Research and Creativity Grant: Three students, for travel to present a research poster at the Mid-Atlantic Ecological Society of America Meeting, Dover, DE

2022 Faculty Mentor for Student Research and Creativity Grant: Four students, for travel to present posters and oral presentations at the Joint Entomological Society of America, Entomological Society of Canada, and the Entomological Society of British Columbia Annual Meeting. Vancouver, British Columbia

2022 Faculty Development Grant for travel and presentations at the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada

2022 Student-Faculty Collaborative Summer Research Grant: Long-term effects of nutrient enrichment and herbivore exclusion on plant-pollinator interactions, Principal Investigator

2022 Nomination for Phenomenal Woman Award, McDaniel College

2021 Student-Faculty Collaborative Summer Research Grant: Examining effects of altered nutrient, herbivore, and land use regimes on pollinator and plant communities, Principal Investigator

2020 Faculty Mentor for Student Research and Creativity Grant: One student, for processing soil samples for an Environmental Studies Capstone project

2020 Faculty Mentor for Student Research and Creativity Grant: Two students, for travel to present posters at the 30th Annual USDA Interagency Forum on Invasive Species. Annapolis, MD

2019 Charles A. Boehlke, Jr., Engaged Faculty Fellowship. 2-year award. McDaniel College

2019 Student-Faculty Collaborative Summer Research Grant: Identifying mechanisms and consequences of altered species interactions in an era of global change, Principal Investigator

2019 Faculty Mentor for Student Research and Creativity Grant: Two students, for travel to present posters at the Mid-Atlantic Ecological Society of America Meeting. Bowie, MD

2018 Faculty Development Grant for travel and presentations at the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada

2018 Faculty Grant Award, McDaniel College

2018 Student-Faculty Collaborative Summer Research Grant: Insect indicators: Investigating responses of insects to ecological change and chemical stimuli, Principal Investigator

2018 Quarry Life Award Grant: A framework to assess restoration outcomes in partnership with educational institutions. HeidelbergCement. Co- Principal Investigator with Jason Scullion (Environmental Studies) and Katie Staab (Biology)

2017 Student-Faculty Collaborative Summer Research Grant: Food web assembly in successional fields: Identifying the impacts of hyper-abundant herbivores on arthropod food webs, Principal Investigator

2017 Faculty Development Grant for travel and presentations at the Ecological Society of America National Meeting. Portland, OR

2017 Faculty Mentor for Student Research and Creativity Grant: Four students, for travel to present a poster at the Maryland Water Monitoring Council 23rd Annual Conference. Linthicum, MD.

2017 Inducted as Honorary Member of *Beta Beta Beta* National Biology Honor Society

2014-2019 USDA-NIFA McIntire-Stennis Project, Enhancing sustainability of urban forests against native and non-native pests. Project scientist and co-developer of grant with Dr. Michael Raupp, University of Maryland

2011-2016 USDA-ARS-NIFA Specialty Crop Research Initiative Coordinated Agricultural Project: Biology, ecology, and management of brown marmorated stink bug in orchard crops, small fruit, grapes, vegetables, and ornamentals. Co- Principal Investigator with institutional leader Dr. Cerruti Hooks (UMD) and Project Director Dr. Tracy Leskey (USDA-ARS)

2007-2010 National Science Foundation Doctoral Dissertation Improvement Grant: Food webs in stable isotope space: How patch size and connectivity alter food web structure, functional redundancy, and trophic position, University of Maryland

2009 Anne G. Wylie Graduate Fellowship, University of Maryland

2006, 2008 College Travel Grant, University of Maryland

2003-2005 University Fellowship, University of Maryland

2001 *Phi Beta Kappa* National Honor Society, Duke University

2001 *Summa Cum Laude*, Duke University

Book Chapters and Peer-Reviewed Publications

\* indicates undergraduate co-author

28. Morton, JA, CA Arnillas, L Biedermann, ET Borer, LA Brudvig, YM Buckley, M Cadotte, K Davies, I Donohue, A Ebeling, N Eisenhauer, C Estrada, S Haider, Y Hautier, A Jentsch, **H Martinson**, RL McCulley, X Raynaud, C Roscher, EW Seabloom, CJ Stevens, K Vesela, A Wallace, IJ Leitch, AR Leitch, EI Hersch-Green. In Press. *PLOS Biology*.

27. Spohn, M, S Bagchi, LA Biederman, ET Borer, KA Brathen, MN Bugalho, MC Caldeira, JA Catford, SL Collins, N Eisenhauer, N Hagenah, S Haider, Y Hautier, JMH Knops, SE Koerner, L Laanisto, Y Lekberg, JP Martina, **H Martinson**, RL McCulley, PL Peri, P Macek, SA Power, AC Risch, C Roscher, EW Seabloom, C Stevens, GF Veen, R Virtanen, L Yahdjian. 2023. The positive effect of plant diversity on soil carbon depends on climate. *Nature Communications* 14: 6624. DOI: <https://doi.org/10.1038/s41467-023-42340-0>.

26. Wilfahrt, P, E Seabloom, J Bakker, L Biederman, M Bugalho, M Cadotte, MC Caldeira, J Catford, Q Chen, I Donohue, A Ebeling, N Eisenhauer, S Haider, R Heckman, A Jentsch, S Koerner, K Komatsu, R Laungani, A MacDougall, J Martina, **H Martinson**, J Moore, Y Niu, T Ohlert, H olde Venterink, D Orr, P Peri, E Pos, J Price, X Raynaud, Z Ren, C Roscher, NG Smith, C Stevens, L Sullivan, M Tedder, P Tognetti, C Veen, G Wheeler, A Young, H Young, and E Borer. 2023. Nothing lasts forever: Dominant species decline under rapid environmental change in global grasslands. *Journal of Ecology*. DOI: <https://doi.org/10.1111/1365-2745.14198>.

25. Kim, S\*, A Kuhn\*, MJ Raupp, and **HM Martinson**. 2023. Host preferences of spotted lanternfly and risk assessment of potential tree hosts in managed and semi-natural landscapes. *Florida Entomologist* 106: 74-82. DOI: <https://doi.org/10.1653/024.106.0202>.

24. **Martinson, HM**, MJ Raupp, and SD Frank. 2020. How urban forest composition shapes the structure and function of arthropod communities. Chapter 2 of *Urban Ecology: Its Nature and Challenges*, edited by Pedro Barbosa. CAB International, Boston, MA, USA.

23. Cullum, JP, LJ Nixon, WR Morrison, MJ Raupp, P Shrewsburry, PD Venugopal, **H Martinson**, JC Bergh, and TC Leskey. 2020. Influence of landscape factors and abiotic conditions on dispersal behavior and overwintering site selection by *Halyomorpha halys* (Hemiptera: Pentatomidae). *Journal of Economic Entomology* toaa077.DOI:<https://doi.org/10.1093/jee/toaa077>.

22. Karp, DS [and 149 others, including **Martinson, HM**]. 2018. Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. *Proceedings of the National Academy of Sciences* 115: E7865-E7870.

21. **Martinson, HM**, EJ Bergmann, PD Venugopal, CB Riley, PM Shrewsbury, and MJ Raupp. 2016. Invasive stink bug favors naïve plants: Testing the role of plant geographic origin in diverse, managed environments. *Scientific Reports* 6: 32646.

20. Bergmann, EJ, PD Venugopal, **HM Martinson**, MJ Raupp, and PM Shrewsbury. 2016. Host plant use by the invasive *Halyomorpha halys* (Stål) on woody ornamental trees and shrubs. *PLoS ONE* 11 (2): e0149975. DOI:10.1371/journal.pone.0149975.

19. Raupp, MJ, and **HM Martinson**. 2015. Bye-bye big beetles in cities. *Arborist News* 24 (6): 70-73.

18. **Martinson, HM**, PD Venugopal, EJ Bergmann, PM Shrewsbury, and MJ Raupp. 2015. Fruit availability influences the seasonal abundance of invasive stink bugs in ornamental tree nurseries. *Journal of Pest Science* 3: 461-468. DOI: 10.1007/s10340-015-0677-8.

17. Venugopal, PD, **HM Martinson**, EJ Bergmann, PM Shrewsbury, and MJ Raupp. 2015. Edge effects influence the abundance of the invasive *Halyomorpha halys* (Hemiptera: Pentatomidae) in woody plant nurseries. *Environmental Entomology* 44: 474-479 (the first two authors contributed equally).

16. **Martinson, HM**, C Sargent, and MJ Raupp. 2014. Tree water stress and insect geographic origin influence patterns of herbivory by borers in green (*Fraxinus pennsylvanica*) and Manchurian (*F. mandshurica*) ash. *Arboriculture & Urban Forestry* 40: 332-344.

15. Rice, KB, CJ Bergh, EJ Bergmann, DJ Biddinger, C Dieckhoff, G Dively, H Fraser, T Gariepy, G Hamilton, T Haye, A Herbert, K Hoelmer, CR Hooks, A Jones, G Krawczyk, T Kuhar, **H Martinson**, W Mitchell, AL Nielsen, DG Pfeiffer, MJ Raupp, C Rodriguez-Saona, P Shearer, P Shrewsbury, PD Venugopal, J Whalen, NG Wiman, TC Leskey, and JF Tooker. 2014. Biology, ecology, and management of brown marmorated stink bug (Hemiptera: Pentatomidae). *Journal of Integrated Pest Management* 5(3): DOI: <http://dx.doi.org/10.1603/IPM14002>.

14. **Martinson, HM**, and WF Fagan. 2014. Trophic disruption: A meta-analysis of how habitat fragmentation affects resource consumption in terrestrial arthropod systems. *Ecology Letters* 17: 1178-1189.

13. Sargent, C, **HM Martinson**, and MJ Raupp. 2014. Traps and trap placement may affect location of brown marmorated stink bug (Hemiptera: Pentatomidae) and increase injury to tomato fruits in home gardens. *Environmental Entomology* 43: 432-438.

12. Sargent, C, **HM Martinson**, RA Bean, S Grimard\*, B Raupp\*, SC Bass\*, EJ Bergmann\*, DJ Nowak, and MJ Raupp. 2013. Approaches for predicting the movement and potential economic and ecological impacts of the emerald ash borer, *Agrilus planipennis* Fairmaire (Coleoptera: Buprestidae), in Maryland municipalities and a discussion of possible management options. *The Maryland Entomologist* 6: 14-29.

11. Gilbert, JDJ, C Acquisti, **HM Martinson**, JJ Elser, S Kumar, and WF Fagan. 2013. GRASP [Genomic Resource Access for Stoichioproteomics]: Comparative explorations of the atomic content of 12 *Drosophila* proteomes. *BMC Genomics* 14: 599.

10. **Martinson, HM**, and MJ Raupp. 2013. A meta-analysis of the effects of urbanization on ground beetle communities. *Ecosphere* 4: art60.

9. **Martinson, HM**, PM Shrewsbury, and MJ Raupp. 2013. Invasive stink bug wounds trees, liberates sugars, and facilitates native Hymenoptera. *Annals of the Entomological Society of America* 106: 47-52.

8. **Martinson, HM**, WF Fagan, and RF Denno. 2012. Critical patch sizes for food web modules. *Ecology* 93: 1779-1786.

7. Sargent, C, **HM Martinson**, and M Raupp. 2011. The Orient express in Maryland: The brown marmorated stink bug, *Halyomorpha halys* (Stål) (Hemiptera: Pentatomidae). *The Maryland Entomologist* 5: 2-21.

6. Schoenfelder\*, AC, JG Bishop, **HM Martinson**, and WF Fagan. 2010. Resource use efficiency and community effects of invasive *Hypochaeris radicata* (Asteraceae) during primary succession. *American Journal of Botany* 97: 1772-1779.

5. Barbosa, P, J Hines, I Kaplan, **H Martinson**, A Szczepaniec, and Z Szendrei. 2009. Associational resistance and associational susceptibility: Having right or wrong neighbors. *Annual Review of Ecology, Evolution & Systematics* 40: 1-20.

4. Hambäck, PA, J Gilbert, K Schneider, **HM Martinson**, G Kolb, and WF Fagan. 2009. Effects of body size, trophic mode and larval habitat on dipteran stoichiometry: A regional comparison. *Oikos* 118: 615-623.

3. **Martinson, HM**, K Schneider, J Gilbert, JE Hines, PA Hambäck, and WF Fagan. 2008. Detritivory: Stoichiometry of a neglected trophic level. *Ecological Research* 23: 487-491 (the first two authors contributed equally).

2. Okamura, H, C Garcia-Rodriguez, **H Martinson**, J Qin, DM Virshup, and A Rao. 2004. A conserved docking motif for CK1 binding controls the nuclear localization of NFAT1. *Molecular and Cellular Biology* 24: 4184-4195.

1. Lal, A, CA Glazer, **HM Martinson**, HS Friedman, GE Archer, JH Sampson, and GJ Riggins. 2002. Mutant epidermal growth factor receptor up-regulates molecular effectors of tumor invasion. *Cancer Research* 62: 3335-3339.

Proceedings & Additional Publications

\* indicates undergraduate co-author

11. Stack Whitney, K, S Cooke, K Lyons, **H Martinson**, and K Pearce. 2021. Backyard Beetles and Pollinators Dataset - EREN/NEON Flexible Learning Project (1.0) [Data set]. Zenodo. <https://doi.org/10.5281/zenodo.5164410>.

10. **Martinson, H**. 2021. Implementing Flexible Learning Projects to support authentic research experiences in Ecology (BIO 3317) at McDaniel College. EREN-NEON Flexible Learning Projects FMN, QUBES Educational Resources. doi:10.25334/ZJYW-FH15. <https://qubeshub.org/publications/2335/1>.

9. **Martinson, H**. 2020. Adapting "Lichens in Diverse Landscapes" for Independent Projects in BIO 3317 Ecology at McDaniel College. EREN-NEON Flexible Learning Projects FMN, QUBES Educational Resources. doi:10.25334/437R-JQ96. <https://qubeshub.org/publications/2181/1>.

8. Kuhn, A\*, S Kim\*, M Raupp, and **H Martinson**. 2020. Predation of spotted lanternfly (*Lycorma delicatula*). In K McManus, comp. Proceedings of the 30th USDA Interagency Research Forum on Invasive Species, 2020 January 14-17. FHTET-2020-01. Morgantown, WV. U.S. Department of Agriculture, Forest Service, Forest Health Technology Enterprise Team.

7. Bergmann, E, KM Bernhard, G Bernon, M Bickerton, S Gill, C Gonzales, GC Hamilton, C Hedstrom, K Kamminga, C Koplinka-Loehr, G Krawczyk, TP Kuhar, B Kunkel, TC Leskey, **H Martinson**, AL Nielsen, MJ Raupp, P Shearer, P Shrewsbury, J Walgenbach, J Whalen, and N Wiman. 2013. Host Plants of the Brown Marmorated Stink Bug in the U.S. StopBMSB. <http://www.stopbmsb.org/where-is-bmsb/host-plants/>.

6. Shrewsbury, PM, DW Tallamy, MJ Raupp, DE Jennings, **HM Martinson**, and EA Vodraska. 2013. Arthropod communities in native vs. alien urban landscapes: How do they differ? In the Proceedings of the 4th International Symposium on Biological Control of Arthropods. Pucón, Chile.

5. Bergmann, E, **H Martinson**, D-H Lee, K Kamminga, C Sargent, P Shrewsbury, and M Raupp. 2013. How patterns of movement, refugia, and woody hosts create the perfect storm for the invasive brown marmorated stink bug, *Halyomorpha halys*. In K McManus and KW Gottschalk, eds. Proceedings of the Twenty-Fourth U.S. Department of Agriculture Interagency Research Forum on Invasive Species 2013.

4. **Martinson, H**, C Sargent, D Bean, A Sawyer, and M Raupp. 2011. Movement and impact of EAB in Maryland. In G Parra, D Lance, V Mastro, R Reardon, and C Benedict, eds. Proceedings of the 2011 Emerald Ash Borer National Research and Technology Development Meeting.

3. **Martinson, H**, C Sargent, D Bean, A Sawyer, and M Raupp. 2011. Predicting movement, risk, and economic impact of emerald ash borer in Maryland. In K McManus and KW Gottschalk, eds. Proceedings of the Twenty-Second U.S. Department of Agriculture Interagency Research Forum on Invasive Species 2011.

2. O’Brien, T, J Presson, P Lanford, P Gross, **H Martinson**, K Thompson, and Y Al-Hassani. 2008. BSCI103 The World of Biology Laboratory Manual, Third Edition. T O’Brien, ed. Hayden-McNeil Publishing, Inc., Plymouth, Michigan.

1. **Martinson, HM**, and M Raupp. 2007. The brilliance, beauty, and biology of fall foliage. Groundwork Magazine, Landscape Contractors Association.

Invited Presentations

2022 **Martinson H**, S Frank, and M Raupp. Assessing drivers of insect biodiversity change in urban green spaces. Invited presentation in the symposium “Woody Plant Insect Pest Ecology and Management.” Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

2018 **Martinson, H**. Polyphagous but particular: Understanding the host plant use of the brown marmorated stink bug. Invited seminar, presented at the Smithsonian Environmental Research Center (SERC). Edgewater, MD.

2017 **Martinson, H**. Plant-insect interactions in a changing world. Invited seminar (job talk), presented to the faculty and students in the Biology Department, McDaniel College. Westminster, MD.

2013 **Martinson, HM**, and MJ Raupp. Divergent responses of terrestrial arthropods to urbanization: A meta-analysis. Invited presentation for the symposium, “Insect ecology in the world’s most populated habitat: Connecting scientists, practitioners, and the public.” Entomological Society of America National Meeting. Austin, TX.

2012 **Martinson, H**, and M Raupp. Spatial patterns of brown marmorated stink bug host use in nurseries: A multi-scale analysis. Invited talk for the symposium, “New Pest vs. Young Scientist.” Entomological Society of America National Meeting. Knoxville, TN.

Oral and Poster Presentations

\* indicates undergraduate co-author

2025 Cancela JP, HO Venterink, T Dias, PAV Borges, DP Vázquez, L Absts, ES Bakker, MN Bugalho, MC Caldeira, A Eskelinen, LA Garibaldi, A Jentsch, N Johanson, M Kuhlman, LS Lannes, **H Martinson**, N Pérez-Méndez, P Peri, GF Veen, AC Risch, MA Schuchardt, M Schuetz, R Nelson, R Virtanen, E Seabloom, ET Borer, and LG Carvalheiro. Nutrient enrichment negatively impacts flowers and pollinators, especially in warmer climates. Annual Meeting of the Floral Ecology working group, Ecoflor, León, Spain. (upcoming presentation)

2024 **Martinson, H**, and FS Sivakoff. Fencing and fertilizers influence floral resources and floral visitation. Contributed oral presentation at the Entomological Society of America. Phoenix, AZ.

2024 Wojcik, M\*, B Forest-Russell\*, and **H Martinson**. Malaise traps as tools for assessing abundance and biomass of Lepidoptera. Student competition poster presentation at the Entomological Society of America. Phoenix, AZ.

2024 Forest-Russell, B\*, M Wojcik\*, and **H Martinson**. Comparing Hymenoptera biomass using Malaise traps in suburban and urban Maryland. Contributed oral presentation at the Entomological Society of America. Phoenix, AZ.

2023 Cancela JP, HO Venterink, PAV Borges, T Dias, D Vazquez, L Absts, L Bakker, M Bugalho, MC Caldeira, A Eskelinen, LA Garibaldi, A Jentsch, N Johanson, M Kuhlman, L Lannes, Y Lekberg, **H Martinson**, N Pérez, P Peri, J Sitters, C Veen, A Risch, M Schuchardt, M Schuetz, R Nelson, R Virtanen, E Borer, and LG Carvalheiro. Regional temperature and soil fertility interactively affect the response of pollinators and floral resources to nutrient enrichment. Oral presentation at the University of Azores, Azores, Portugal.

2023 Robinson M, Q Xu, EW Seabloom, ET Borer, Q Chen, L Sullivan, PA Wilfahrt, PB Adler, MW Cadotte, D Gruner, N Eisenhouer, M Crawley, C Stevens, I Donohue, NG Smith, I Barrio, Y Hautier, A Eskelinen, EI Hersch-Green, P Peri, P Graff, J Catford, M Tedder, C Roscher, I Jónsdóttir, A Risch, J Morgan, Z Ren, S Bagchi, HO Venterink, GR Wheeler, P Tognetti, G Wardle, N Hagenah, SA Power, M Caldeira, **H Martinson**, M Bugalho, A Ebeling, and L Jiang. Species traits and herbivory jointly shape temporal stability of plant populations. Contributed oral presentation at the Ecological Society of America. Portland, OR.

2022 Raupp M, and **H Martinson**. Does warm and old trump young and cool for evading predators in periodical cicadas? Contributed oral presentation at the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

2022 Gilbart, S\*, HD Grzemkowski\*, MJ Hodgdon\*, LM Sherrill\*, and **H Martinson**. Bee community composition and floral preferences in a Maryland old field ecosystem. Student competition oral presentation at the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

2022 Sherrill, LM\*, MJ Hodgdon\*, HD Grzemkowski\*, SR Gilbart\*, and **H Martinson**. The early flower gets the pollinator: Investigating the influences of seasonality and nutrient addition on floral resources and pollinators in a long-term ecological experiment. Student competition poster presentation at the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

*1st place poster in group, Undergrad Plant-Insect Ecosystems: Biodiversity & Behavior*

2022 Grzemkowski, HD\*, SR Gilbart\*, MJ Hodgdon\*, LM Sherrill\*, and **H Martinson**. Spider safari: Floral associations of old field Araneae. Student competition poster presentation at the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

*2nd place poster in group, Undergrad Plant-Insect Ecosystems: Biodiversity & Behavior*

2022 Hodgdon, MJ\*, HD Grzemkowski\*, SR Gilbart\*, LM Sherrill\*, and **H Martinson**. The effect of floral height on the abundance of species richness of pollinators: An experimental approach. Student competition poster presentation at the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

2022 **Martinson, H**, S Frank, and M Raupp. Drivers of insect biodiversity in urban green spaces: A review and meta-analysis. Oral presentation in the symposium “Global Insect Decline Phenomenon: Insect Conservation in the Anthropocene.” International Congress of Entomology. Helsinki, Finland.

2022 **Martinson, H.** Hope through hands-on learning: Integrating authentic ecological research opportunities throughout the undergraduate curriculum. Oral presentation in the session, “Environmental Education and Curriculum, Part 3.” Association for Environmental Studies and Sciences 2022: Hopeful Strategies for the Anthropocene. Baltimore, MD.

2022 Gilbart, S\*, V Ellis\*, K Murphy\*, J Wyatt\*, and **H Martinson**. Effects of provenance on per-floral-unit pollination rates in a Maryland old-field community. Student competition oral presentation at the Entomological Society of America Eastern Branch Meeting. Philadelphia, PA.

2022 **Martinson, H**, S Gilbart\*, V Ellis\*, K Murphy\*, and J Wyatt\*. Floral visits by flower flies: Short-term nutrient enrichment and herbivore exclusion influence flower visitation in an old field community. Contributed oral presentation at the Entomological Society of America Eastern Branch Meeting. Philadelphia, PA.

2022 Gilbart, SR\*, V Ellis\*, KN Murphy\*, J Wyatt\*, and **H Martinson**. Effects of provenance on per-floral-unit pollination rates in a Maryland old-field community. McDaniel College’s Inaugural Academic Symposium: The McDaniel Environmental Center: Investigating, Restoring, and Cultivating the Local Environment. Westminster, MD.

2022 **Martinson, HM**. Contributing to collaborative research in a long-term experiment at the MEC. McDaniel College’s Inaugural Academic Symposium: The McDaniel Environmental Center: Investigating, Restoring, and Cultivating the Local Environment. Westminster, MD.

2021 Gilbart, SR\*, V Ellis\*, KN Murphy\*, J Wyatt\*, and **H Martinson**. Effects of provenance on per-floral-unit pollination rates in a Maryland old-field community. Student competition virtual oral presentation at the Entomological Society of America National Meeting. Denver, CO.

*1st place, Virtual undergraduate 10-minute papers, in Pollinators and Ecology group*

2021 Ellis, V\*, SR Gilbart\*, J Wyatt\*, KN Murphy\*, and **H Martinson**. In the weeds: Nutrient enrichment and herbivore exclusion influence plant-pollinator interactions in an old field community. Student competition virtual poster presentation at the Entomological Society of America National Meeting. Denver, CO.

2021 Gilbart, SR\*, V Ellis\*, KN Murphy\*, J Wyatt\*, and **H Martinson**. Home field advantage for native floral species: Plant provenance and pollinators in a Maryland old field community. Poster presentation at the Summer Research Showcase at McDaniel College. Westminster, MD.

2021 Ellis, V\*, SR Gilbart\*, J Wyatt\*, KN Murphy\*, and H Martinson. In the weeds: Nutrient enrichment and plant competition potentially influence plant-pollinator diversity in an old field community. Poster presentation at the Summer Research Showcase at McDaniel College. Westminster, MD.

2021 **Martinson, HM.** Using a Nutrient Network site to teach entomology and ecology at a small, liberal arts college in Maryland. Contributed oral presentation at the Virtual Entomological Society of America Eastern Branch Meeting.

2021 Raupp, MJ, and **H Martinson**. Evasive behaviors of periodical cicadas, *Magicicada septendecim* and *M. cassini* in different thermal regimes – Drop, Fly, or Die. Presentation to the Department of Biology, University of Maryland, College Park, MD.

2020 Kim, S\*, A Kuhn\*, MJ Raupp, and **H Martinson**. Preferences of the invasive spotted lanternfly (*Lycorma delicatula*) among potential host plants. Student competition oral presentation at the Virtual Entomological Society of America National Meeting.

2020 Kuhn, A\*, S Kim\*, MJ Raupp, and **H Martinson**. Predation of spotted lanternfly (*Lycorma delicatula*). E-poster presentation at the Virtual Entomological Society of America National Meeting.

2020 Murphy, K\*, J Wyatt\*, and **H Martinson**. Hoverfly happiness: Floral attributes and abundance influence the activity of *Toxomerus marginatus* in a Nutrient Network site. Student competition poster presentation at the Virtual Entomological Society of America National Meeting.

2020 Wyatt, J\*, K Murphy\*, and **H Martinson**. Buzzing around a Nutrient Network site: Quantifying relationships between floral abundance, pollinator visitation, and herbivore exclusion. Student competition oral presentation at the Virtual Entomological Society of America National Meeting.

2020 **Martinson, HM**, MJ Raupp, and SD Frank. How urban forests shape arthropod communities: Essential roles for abiotic conditions and forest composition. Infographic e-poster presentation at the Virtual Entomological Society of America National Meeting.

2020 Kim, S\*, A Kuhn\*, MJ Raupp, and **H Martinson**. Preferences of the invasive spotted lanternfly (*Lycorma delicatula*) among potential host plants. Poster presentation at the 30th Annual USDA Interagency Forum on Invasive Species. Annapolis, MD.

2020 Kuhn, A\*, S Kim\*, MJ Raupp, and **H Martinson**. Predation of spotted lanternfly (*Lycorma delicatula*). Poster presentation at the 30th Annual USDA Interagency Forum on Invasive Species. Annapolis, MD.

2019 Kim, S\*, A Kuhn\*, MJ Raupp, and **H Martinson**. Preferences of the invasive spotted lanternfly (*Lycorma delicatula*) among potential host plants. Poster presentation at the University of Maryland, Baltimore County Undergraduate Research Symposium in the Chemical and Biological Sciences. Baltimore, MD.

*1st place poster in group, Biological Sciences*

2019 Kuhn, A\*, S Kim\*, MJ Raupp, and **H Martinson**. Predation of spotted lanternfly (*Lycorma delicatula*). Poster presentation at the University of Maryland, Baltimore County Undergraduate Research Symposium in the Chemical and Biological Sciences. Baltimore, MD.

2019 Murphy, K\*, J Wyatt\*, and **H Martinson**. Fences and flower flies: Determinants of floral abundance and flower visitation in a Nutrient Network site. Poster presentation at the University of Maryland, Baltimore County Undergraduate Research Symposium in the Chemical and Biological Sciences. Baltimore, MD.

*1st place poster in group, Biological Sciences*

2019 Kim, S\*, A Kuhn\*, MJ Raupp, and **H Martinson**. Preferences of the invasive spotted lanternfly (*Lycorma delicatula*) among potential host plants. Poster presentation at the Summer Research Showcase at McDaniel College. Westminster, MD.

2019 Kuhn, A\*, S Kim\*, MJ Raupp, and **H Martinson**. Predation of spotted lanternfly (*Lycorma delicatula*). Poster presentation at the Summer Research Showcase at McDaniel College. Westminster, MD.

2019 Murphy, K\*, J Wyatt\*, and **H Martinson**. Fences and flower flies: Determinants of floral abundance and flower visitation in a Nutrient Network site. Poster presentation at the Summer Research Showcase at McDaniel College. Westminster, MD.

2019 Cuzco, K\*, and **H Martinson**. Influences of deer on the soil seed bank: A comparison of methods. Poster presentation at the Annual Meeting of the Mid-Atlantic Chapter of the Ecological Society of America, Bowie State University, Bowie, MD.

2019 Sadler, M\*, **H Martinson**, and D Ferraris. Eau de corpse: Volatile organic compounds and their attractiveness to flesh- and fly-eating beetles. Poster presentation at the Annual Meeting of the Mid-Atlantic Chapter of the Ecological Society of America, Bowie State University, Bowie, MD.

2019 Wixted, E\*, and **H Martinson**. Effects of experimental deer exclusion on pollinator-plant interactions. Poster presentation at the Annual Meeting of the Mid-Atlantic Chapter of the Ecological Society of America, Bowie State University, Bowie, MD.

2019 **Martinson, H**, and M Raupp. Does leaf size constrain oviposition in the brown marmorated stink bug, *Halyomorpha halys*? Oral presentation at the Annual Meeting of the Mid-Atlantic Chapter of the Ecological Society of America, Bowie State University, Bowie, MD.

2019 Witherow, C\*, and **H Martinson**. Effects of deer exclusion on the diversity of plants and arthropods. Poster presented at the Northeast Regional Honors Council Conference, Baltimore, MD.

2019 Witherow, C\*, and **H Martinson**. Effects of deer exclusion on the diversity of plants and arthropods. Poster presented at the Maryland Collegiate Honors Conference, Morgan State University, Baltimore, MD.

2018 **Martinson, H**, and MJ Raupp. Experimental tests of oviposition constraints for the brown marmorated sink bug (*Halyomorpha halys*) on nursery trees. Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

2018 Raupp, MJ, and **H Martinson**. Effects of environmental conditions on evasive behaviors of periodical cicadas, *Magicicada septendecim* and *M. cassini*: Drop, fly, or die. Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of British Columbia Joint Annual Meeting. Vancouver, British Columbia, Canada.

2018 Sadler, M\*, **H Martinson**, and D Ferraris. Eau de corpse: Volatile organic compounds and their attractiveness to flesh- and fly-eating beetles. Poster presented at the University of Maryland, Baltimore County Undergraduate Research Symposium in the Chemical and Biological Sciences. Baltimore, MD.

2018 Cuzco, K\*, and **H Martinson**. Influences of deer on the soil seed bank: a comparison of methods. Poster presented at the Summer Research Showcase at McDaniel College. Westminster, MD.

2018 Sadler, M\*, **H Martinson**, and D Ferraris. Eau de Corpse: Volatile Organic Compounds and Their Attractiveness to Flesh- and Fly-Eating Beetles. Poster presented at the Summer Research Showcase at McDaniel College. Westminster, MD.

2018 Witherow, C\*, and **H Martinson**. Effects of deer exclusion on the diversity of plants and arthropods. Poster presented at the Summer Research Showcase at McDaniel College. Westminster, MD.

2018 Wixted, E\*, and **H Martinson**. Effects of experimental deer exclusion on pollinator-plant interactions. Poster presented at the Summer Research Showcase at McDaniel College. Westminster, MD.

2018 Staab, K, J Scullion, and **H Martinson**. A framework to incorporate authentic research on habitat health in the undergraduate classroom. Council on Undergraduate Research Conference. Arlington, VA.

2017 Wixted, E\*, and **H Martinson**. Insect-plant interactions in a successional field after experimental deer exclusion. Poster presented at the Summer Research Showcase at McDaniel College. Westminster, MD.

2017 Minch, R\*, and **H Martinson**. Ground arthropods as ecological indicators: Assessing the effects of white-tailed deer in a successional field. Poster presented at the Summer Research Showcase at McDaniel College. Westminster, MD.

2017 Swartz, J\*, M Lyons\*, A Palma\*, A Parker\*, and **H Martinson**. Plant diversity in a headwater stream as a potential indicator of stream health. Poster presented at the Maryland Water Monitoring Council Annual Conference. North Linthicum, MD.

2017 **Martinson, H**, C Taylor, C McMullen, C Sargent, K Rane, E Bergmann, D Venugopal, P Shrewsbury, and MJ Raupp. Lurking in the trees: Experimental tests of oviposition constraints and potential damage of an invasive stink bug on nursery trees. Ecological Society of America National Meeting. Portland, OR.

2016 **Martinson, H**, and MJ Raupp. A tale of two studies of cities: Synthesizing arthropod responses to urbanization with complementary meta-analyses. Contributed paper in the session, “Urban entomology in a changing environment: Unique challenges.” XXV International Congress of Entomology. Orlando, FL.

2016 Cullum, J, C Berg, MJ Raupp, PM Shrewsbury, PD Venugopal, **H Martinson**, and TC Leskey. Influence of elevation on dispersal behavior of brown marmorated stink bug (*Halyomorpha halys*) seeking overwintering sites. Contributed paper in the session, “Agricultural and forest entomology: Hemipteran pests.” XXV International Congress of Entomology. Orlando, FL.

2016 Raupp, MJ, **H Martinson**, PD Venugopal, EJ Bergmann, PM Shrewsbury. When generalists specialize: Patterns of host utilization by *Halyomorpha halys* in the invaded range. Invited paper in the symposium, “Impact of native and invasive alien true bug species in agro-ecosystems: Range expansion, pest status, and control tactics.” XXV International Congress of Entomology. Orlando, FL.

2015 **Martinson, H**, D Venugopal, E Bergmann, P Shrewsbury, and M Raupp. A specialized generalist: Resource availability and edge effects constrain the host plants used by *Halyomorpha halys* in nurseries. Poster presented at the Brown Marmorated Stink Bug USDA NIFA SCRI Project Stakeholder Advisory Panel Meeting. Kearneysville, WV.

2015 **Martinson, H**, PD Venugopal, E Bergmann, P Shrewsbury, M Raupp. Drivers of host plant use for invasive stink bugs in heterogeneous habitats. Ecological Society of America National Meeting. Baltimore, MD.

2015 Shrewsbury, P, M Raupp, **H Martinson**, D Venugopal, E Bergmann. Designing stink bug-free landscapes. Brown Marmorated Stink Bug Working Group Meeting. College Park, MD.

2015 Venugopal, D, **H Martinson**, P Shrewsbury, M Raupp. Abundance patterns of the invasive *Halyomorpha halys* in adjacent tree nurseries and field crops. Entomological Society of America Eastern Branch Meeting. Rehoboth Beach, DE.

2014 Raupp, MJ, EJ Bergmann, **HM Martinson**. Designing the dreaded brown marmorated stink bug out of residential landscapes. Invited presentation in the symposium, “New Horizons in Ornamental IPM.” Entomological Society of America National Meeting. Portland, OR.

2014 **Martinson, HM**, E Bergmann, PD Venugopal, P Shrewsbury, M Raupp. Do brown marmorated stink bugs (*Halyomorpha halys*) track resources in diverse woody plant nurseries? Entomological Society of America National Meeting. Portland, OR.

2014 Raupp, MJ, **HM Martinson**, and PM Shrewsbury. From the forest to the city: How features of urbanization disrupt ecological processes of arthropods. Invited presentation in the symposium, “Conservation in the City: Ecology of Arthropods in Urban Forests and Brownfields.” Xth European Congress of Entomology. York, UK.

2014 Shrewsbury, PM, DA Herms, MJ Raupp, and **HM Martinson**. Disasters by design: Destabilization of herbivorous insect populations in urban environments. Keynote presentation in the symposium, “Conservation in the City: Ecology of Arthropods in Urban Forests and Brownfields.” Xth European Congress of Entomology. York, UK.

2014 Bergmann, EJ, **HM Martinson**, PM Shrewsbury, and MJ Raupp. Patterns of host use by *Halyomorpha halys* in woody plant nurseries. Entomological Society of America Eastern Branch Meeting. Williamsburg, VA.

2013 Bergmann, EJ, **HM Martinson**, PM Shrewsbury, and MJ Raupp. The hosts you know or the ones you don’t: Patterns of host use by *Halyomorpha halys* in woody plant nurseries. Entomological Society of America National Meeting. Austin, TX.

2013 Shrewsbury, PM, DW Tallamy, MJ Raupp, DE Jennings, **HM Martinson**, and EA Vodraska. Arthropod communities in native vs. alien urban landscapes: How do they differ? In the symposium, “Assessing the Value of Diversity in (Agro)ecosystems.” Entomological Society of America Eastern Branch Annual Meeting. Lancaster, PA.

2013 Shrewsbury, PM, DW Tallamy, MJ Raupp, DE Jennings, **HM Martinson**, and EA Krause. Arthropod communities in native vs. alien urban landscapes: How do they differ? In the session, “Pest management for an urbanizing world: Arthropod biological control in ornamental landscapes.” 4th International Symposium on Biological Control of Arthropods. Pucón, Chile.

2013 **Martinson, HM**, and MJ Raupp. Impacts of urbanization on ground beetle communities. Poster presentation at the 4th International Symposium on Biological Control of Arthropods. Pucón, Chile.

2013 Bergmann, E, **H Martinson**, D-H Lee, K Kamminga, and M Raupp. How patterns of movement, refugia, and woody hosts create the perfect storm for the invasive brown marmorated stink bug, *Halyomorpha halys*. 24nd USDA Interagency Research Forum on Invasive Species. Annapolis, MD.

2012 Bergmann, E, **H Martinson**, and M Raupp. Does host origin influence patterns of utilization in BMSB? Entomological Society of America National Meeting. Knoxville, TN.

2012 **Martinson, H**, E Bergmann, and M Raupp. Spatial patterns of brown marmorated stink bug host use in nurseries: A multi-scale analysis. Presented to the Northeast IPM Center BMSB Working Group. Winchester, VA.

2012 **Martinson, H**, and M Raupp. Urban winners and losers: A meta-analysis of the effects of urbanization on terrestrial arthropods. Ecological Society of America National Meeting. Portland, OR.

2012 **Martinson, H**, and M Raupp. The Asian invasion: Update on the emerald ash borer and the brown marmorated stink bug. 2012 Maryland Turfgrass Council Conference and Trade Show. College Park, MD.

2011 **Martinson, H**, P Shrewsbury, and M Raupp. BMSB smackdown: The use of woody plants in designing a new alien out of the residential landscape. In the symposium, “Communicating Challenges in Turfgrass & Ornamental Pest Management.” Entomological Society of America National Meeting. Reno, NV.

2011 Raupp, M, **H Martinson**, and P Shrewsbury. Brown marmorated stink bug in ornamentals: Unique modes of injury and patterns of host utilization. In the symposium, “Impact of Brown Marmorated Stink Bug in US Agroecosystems.” Entomological Society of America National Meeting. Reno, NV.

2011 **Martinson, H**, C Sargent, D Bean, A Sawyer, and M Raupp. Movement and impact of emerald ash borer in Maryland. 2011 Emerald Ash Borer Research and Technology Development Meeting. Wooster, OH.

2011 Shrewsbury, P, M Raupp, and **H Martinson**. Brown marmorated stink bug activities in ornamental systems and research plans for 2011. In the symposium, “The Plague of the Brown Marmorated Stink Bug.” Entomological Society of America Eastern Branch Meeting. Harrisburg, PA.

2011 **Martinson, HM**, C Sargent, D Bean, A Sawyer, and M Raupp. Predicting movement, risk, and economic impact of emerald ash borer in Maryland. 22nd USDA Interagency Research Forum on Invasive Species. Annapolis, MD.

2010 **Martinson, HM**, and WF Fagan. Interactions lost and gained: A review of how trophic interactions are impacted by the fragmentation of habitats. Ecological Society of America National Meeting. Pittsburgh, PA.

2009 **Martinson, HM**. Interactions lost: Food web interactions and critical thresholds in fragmented habitats. Poster presentation at the Ecological Society of America National Meeting. Albuquerque, NM.

2008 **Martinson, HM**, RF Denno, and WF Fagan. The metacommunity structure of salt marsh arthropods: Experimental tests of local and spatial mechanisms. Ecological Society of America National Meeting. Milwaukee, WI.

2008 Schoenfelder, AC\*, **HM Martinson**, WF Fagan, and J Bishop. *Hypochaeris radicata*: An invasive species comparison in a low resource system. Poster presentation at the Ecological Society of America National Meeting. Milwaukee, WI.

2007 **Martinson, HM**, WF Fagan, and RF Denno. Critical patch size and connectivity: Species, interactions, and community structure. Ecological Society of America National Meeting. San Jose, CA.

2007 Barbosa, P. I Kaplan, Z. Szendrei, A Szczepaniec, J Hines, and **H Martinson**. Associational resistance and susceptibility: Having right or wrong neighbors. Ecological Society of America National Meeting. San Jose, CA.

2006 **Martinson, HM**, WF Fagan, and RF Denno. Area and connectivity determine the trophic structure of salt marsh arthropods. Entomological Society of America National Meeting. Indianapolis, IN.

2006 **Martinson, HM**, RF Denno, and WF Fagan. Patch size and connectivity influence species interactions and trophic composition. Ecological Society of America National Meeting. Memphis, TN.

2005 **Martinson, HM**, WF Fagan, and RF Denno. Differential effects of habitat connectivity on predators and prey: Implications for food web dynamics. Ecological Society of America National Meeting. Montreal, Canada.

Media

McDaniel News. 2024. Students support global and local communities in the Student-Faculty Collaborative Summer Research Program. 16 Aug 2024. <https://www.mcdaniel.edu/news/students-support-global-and-local-communities-student-faculty-collaborative-summer-research>

Carroll County Times. 2024. Study details spotted lanternfly’s diet. By Thomas Goodwin Smith. In print 1 April 2024. <https://www.baltimoresun.com/2024/03/30/mcdaniel-researchers-publish-study-on-invasive-spotted-lanternfly/>

McDaniel News. 2023. McDaniel research: Invasive spotted lanternflies may be on these trees in your backyard. 17 Nov 2023. <https://www.mcdaniel.edu/news/mcdaniel-research-invasive-spotted-lanternflies-may-be-these-trees-your-backyard>

Baltimore Sun. 2022. McDaniel Environmental Center (MEC) | Photos. 29 Sep 2022. <https://www.baltimoresun.com/2022/09/29/mcdaniel-environmental-center-mec-photos/>

McDaniel News. 2022. Biology students contribute to international database. 8 Aug 2022. <https://www.mcdaniel.edu/news/biology-students-contribute-international-database>

McDaniel News. 2020. McDaniel seniors, alumni, and faculty present at the Entomology 2020 Virtual Meeting. 17 Nov 2023. <https://www.mcdaniel.edu/news/mcdaniel-seniors-alumni-and-faculty-present-entomology-2020-virtual-meeting>

McDaniel News. 2018. Neither snow nor freezing temps stops Biology students’ pursuit of research. 28 Jun 2018. <https://www.mcdaniel.edu/news/neither-snow-nor-freezing-temps-stops-biology-students-pursuit-research>

Service and Outreach

Service and Participation in the Biology Department

Department Chair (2024 – present)

Search committees: Tenure Track 2024 (Chair), Lecturer 2021, Tenure Track 2018, Visiting Professor 2018

Advising, letter writing, and serving as professional reference for Biology Majors (2018 – present)

Participation in monthly departmental meetings (2016 – present)

Major Decision, Minor Stress. Information session for prospective Biology majors (Feb 2021, Mar 2022)

Requested and compiled data on faculty accomplishments and activities in preparation for the Chair’s report to the STGPV committee (2018)

Service and Participation in the McDaniel College Community

Standing committees

Faculty Affairs Committee (2023 – 2024)

Curriculum Committee (2019 – 2022). Reporting secretary (2021 – 2022)

McDaniel Environmental Center (MEC)

Tour guide for the public unveiling of the MEC (September 2022)

Developed the *Grasslands* educational sign in collaboration with Peggy Fosdick and the Communications & Marketing Team in support of the funded Chesapeake Bay Trust grant, “Expanding Environmental Education and Restoration at the McDaniel Environmental Center”

MEC Program Committee (2020 – present)

Presentation at the March Faculty Meeting to describe research and teaching activities at the property and introduce new reservation procedures (2020)

Singleton-Mathews Governance Committee (2018; committee was later split into the Governance Committee and the Program Committee)

Singleton-Mathews Working Group (2018; temporary committee to discuss operations and best practices)

Phi Beta Kappa

Phi Beta Kappa President (2021 – 2023)

Presided over new member induction ceremony (Mar 2022, Mar 2023)

Introduction of speaker at the PBK Visiting Scholar Public Lecture (Sept 2021, Mar 2023)

Letters and emails to 1st semester Dean’s list students to introduce PBK requirements (Spring 2022 & 2023)

Presented honor cords to students inducted as juniors (Nov 2022)

Attendance at regular meetings (2017 – present)

Edith Farr Ridington Writing Award Committee Participant (2018 – 2019), Chair of Committee (2019)

Hosted Visiting Scholar in Ecology class (2019)

Visiting Scholars Lecture and Reception (2018, 2019, 2021, 2023)

Induction ceremony and reception (2018 – 2023)

Panelist at workshops and information sessions

Panelist for faculty development session: Getting started with student-faculty research (2024)

Panelist for student information session about graduate school in STEM fields, hosted by Dr. Michael Polen (Chemistry; 2019)

Panelist for faculty discussion of experiential education and community-based learning (2018)

Recruitment and retention

Admitted Students Days (2019 – 2020)

Faculty Call Night (2019)

Hosting of prospective students in classes (2016 – 2019)

Additional service to the College

Served on Chemistry Visiting Professor Search Committee (2023)

General Education Taskforce (GET) for revision of general education requirements (2022 – 2023)

Working group to write the Middle States Commission on Higher Education Self-study “Chapter 3: Design and delivery of the student learning experience” (2021 – 2022)

Faculty Mentor to Aurora Bonner (English; 2022 – 2023)

Co-organizer of Faculty Retirement Events with Dr. Mary Bendel-Simso (2022, 2023)

Faculty Mentor to Tara Spicer-Bartolain (Kinesiology; 2021 – 2022)

General Education Research Group (2021)

Faculty Mentor to Dr. Margaret Christie (Environmental Studies; 2020 – 2021)

Boehlke Fellows Selection Committee (2020, 2021)

Served on Environmental Studies Earth Sciences Search Committee (2019)

Supported HHMI Pre-proposal development at meetings organized by the Provost; helped analyze student outcomes across the Collee and in STEM majors (2016)

Participation in ceremonial events of the College

Introductory Convocation (2016 – 2019, 2021 – 2023)

Commencement (2017 – 2019, 2022 – 2023)

Presidential Inauguration (10th President, Dr. Jasken, April 2022)

Senior Investiture and Honors Convocation (2019)

Participation in the summer research community

Summer Research Reunion Dinner; invited former summer student to serve on alumni panel (2022)

Summer Research Meet & Greet Luncheon, Summer Research Reunion Dinner, Crab Feast (2021)

Dinner and game night (2018)

Picnic at Singleton-Mathews (2017)

Additional participation in the College community

EquityNOW! Focus Group Meeting (2020)

Forum on the Honors Program (2020)

Attendance at all faculty meetings (2016 – present)

Participation in Writing, Research, and Creativity Groups (2016 – 2020)

Service to the Scientific Community

Student competition judge

Entomological Society of America National Meeting (2024)

Mid-Atlantic Branch Meeting of the Ecological Society of America (2019)

External reviewer for national funding agencies

National Science Foundation Division of Environmental Biology: 2015, 2016, 2017

Fondation pour la Recherche sur la Biodiversité (FRB): 2015

Ad-hoc peer reviewer (28 journals; 43 reviews)

*Acta Oecologica, Agricultural & Forest Entomology, Arboriculture & Urban Forestry, Basic & Applied Ecology, Biological Conservation, Biotropica, Diversity & Distributions, Ecography, Ecological Entomology, Ecology, Ecology Letters, Entomologia Experimentalis et Applicata, Environmental Entomology, Florida Entomologist, Frontiers in Ecology and Evolution, Functional Ecology, HortScience, Journal of Asia-Pacific Entomology, Journal of Insect Behavior, Journal of Insect Science, Journal of Pest Science, Journal of Urban Ecology, Landscape Ecology, Oecologia, Oikos, PLoS ONE, Urban Ecosystems, Urban Forestry & Urban Greening*

Additional Service and Outreach

Hands-on entomology outreach (Insect Petting Zoo)

2015, 2017 Preschool classes, Children in the Shoe Child Care Center, Rockville, MD

2013 – 2015 Maryland Day, University of Maryland, College Park, MD

2014 Kindergarten class, Portland, OR

2013 Pre-K class at Lafayette Elementary School, Washington, DC

2010 Cirque du Soleil, Ovo, National Harbor, Maryland

2010 Maryland Association for Environmental and Outdoor Education: Entomology 101 and Beyond

2010 Integrated Pest Management for Landscape Plants

Environmental education and outreach

2000-2001 Wilderness Initiatives for Learning at Duke (Project WILD), Experiential Educator

2000 Wilderness Outdoor Opportunities for Durham Students, Environmental Educator

Departmental and College service at the University of Maryland

2009 Graduate Teaching Assistant Orientation Panelist, University of Maryland

2007-2008 President, BEES Graduate Student Organization, University of Maryland

2005-2006 Treasurer, Entomology Graduate Student Organization, University of Maryland

Continuing Education, Working Groups, and Additional Field Experience

2020-2021 Participant in Faculty Mentoring Networks (Fall 2020, Spring 2021) with the Ecological Research as Education Network (EREN) in partnership with the National Ecological Observatory Network (NEON) and Quantitative Undergraduate Biology Education and Synthesis (QUBES)

2020 Attended EquityNOW! training for racial equity in higher education

2020 Attended Four-Dimensional Ecology Education Framework (4DEE) Workshop, hosted by the Ecological Society of America

2020 Completed Best Practices in Online Teaching and Learning (BPO 100)

2007 Field Scientist, Oceanites, Inc., Antarctica. Served as an on-board scientist on the National Geographic Endeavor on two Antarctic Peninsula tours

2006-2007 Working Group Participant, NCEAS, National Center for Ecological Analysis & Synthesis, Santa Barbara, CA

2000 Undergraduate Semester Abroad Program, Organization for Tropical Studies (OTS), Costa Rica

Memberships in Professional Societies

Ecological Society of America (2003 – present)

Entomological Society of America (2003 – present)

Ecological Research as Education Network (EREN, 2020 – present)

Florida Entomological Society (2023)

Association for Environmental Studies and Sciences (AESS, 2022)

American Association for the Advancement of Science (2017 – 2021)