

Brian F. Allan

University of Illinois Urbana-Champaign
Department of Entomology and School of Integrative Biology
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PROFESSIONAL APPOINTMENTS

| | |
|--------------|---|
| 2019-Present | Affiliate, Department of Evolution, Ecology and Behavior, University of Illinois |
| 2016-Present | Associate Professor, Department of Entomology and School of Integrative Biology, University of Illinois |
| 2016-Present | Affiliate, National Center for Supercomputing Applications, University of Illinois |
| 2015-Present | Affiliate, Carl R. Woese Institute for Genomic Biology, University of Illinois |
| 2014-2017 | Scientific Affiliate, Department of Biological Sciences, Mt. Kenya University |
| 2012-2015 | Research Associate, Department of Zoology, National Museums of Kenya |
| 2011-Present | Affiliate, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2010-2016 | Assistant Professor, Department of Entomology and School of Integrative Biology, University of Illinois |

EDUCATION AND TRAINING

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|-----------|--|
| 2009-2010 | Postdoctoral Research Fellow, Tyson Research Center, Washington University in Saint Louis |
| 2003-2009 | Ph.D., Evolution, Ecology & Population Biology Program, Washington University in Saint Louis |
| 1996-2000 | B.S., Dual Majors in Biology and Zoological Anthropology, University of Michigan |

AWARDS

| | |
|-----------|---|
| 2019-2022 | University Scholar, University of Illinois |
| 2019 | Campus Award for Excellence in Undergraduate Teaching, University of Illinois |
| 2019 | College of Liberal Arts & Sciences Dean's Award for Excellence in Undergraduate Teaching, University of Illinois |
| 2017-2018 | Joseph B. Hawkes Award, School of Integrative Biology, University of Illinois |
| 2016-2017 | I.C. Gunsalus Scholar, College of Liberal Arts & Sciences, University of Illinois |
| 2015-2019 | Early Career Fellow, Ecological Society of America |
| 2015 | Arnold O. Beckman Award, Office of the Vice Chancellor for Research, University of Illinois |
| 2013 | Sustainability Fellowship, Center for a Sustainable Environment, University of Illinois |
| 2011 | Arnold O. Beckman Award, Office of the Vice Chancellor for Research, University of Illinois Dean's Teaching Fellowship, College of Liberal Arts and Sciences, University of Illinois |
| 2009 | Best Oral Presentation in Applied Research, Annual Meeting of the North American Benthological Society |

PUBLICATIONS

*Denotes mentored undergraduate (U), graduate (G), technician (T), or postdoctoral associate (P) at time the research was conducted.

- (49) Kowal, V.A., S.M. Jones, F. Keesing, **B.F. Allan**, J.M. Schieltz and R. Chaplin-Kramer. 2019. A coupled forage-grazer model predicts viability of livestock production and wildlife habitat at the regional scale. *Scientific Reports* 9(1): 1-12.
- (48) Landesman, W.J., K. Mulder, L.P. Fredericks^T and **B.F. Allan**. 2019. Cross-kingdom analysis of nymphal-stage *Ixodes scapularis* microbial communities in relation to *Borrelia burgdorferi* infection and load. *FEMS Microbiology Ecology* 95(12): 1-14.
- (47) Landesman, W.J., K. Mulder, **B.F. Allan**, L.A. Bashor, F. Keesing, K. LoGiudice and R.S. Ostfeld. 2019. Potential effects of blood meal host on bacterial community composition in *Ixodes scapularis* nymphs. *Ticks and Tick-Borne Diseases* 10(3): 523-527.
- (46) Parker, A.C.^G and **B.F. Allan**. 2019. Do gutter guards affect mosquito production in roof gutter habitats? *Journal of the American Mosquito Control Association* 35(1): 67-70.
- (45) Welsh, E.C.,^G F. Keesing, and **B.F. Allan**. 2019. Oxpecker (*Buphagus erythrorhynchus*, *Buphagus africanus*) and tick abundances in acaricide-treated livestock areas. *African Journal of Ecology* 57(1): 155-159.
- (44) Josek, T.,^G A.M. Gardner,^G T.J. Hedlund,^G A.T. Parker,^G E.A. Updyke^G and **B.F. Allan**. 2019. Fatal attraction: Lone star ticks (*Amblyomma americanum*) exhibit preference for human female breath over male breath. *Experimental and Applied Acarology* 77(1): 59-64.
- (43) Parker, A.C.,^G A.M. Gardner, M. Perez,^U **B.F. Allan** and E.J. Muturi. 2018. Container size alters the outcome of interspecific competition between *Aedes aegypti* and *Aedes albopictus* (Diptera: Culicidae). *Journal of Medical Entomology* 56(3): 708-715.
- (42) Gardner, A.M.,^G E.J. Muturi and **B.F. Allan**. 2018. Discovery and exploitation of a natural ecological trap for a mosquito disease vector. *Proceedings of the Royal Society B* 285(1891): 20181962.

- (41) Keesing, F., R.S. Ostfeld, S. Okanga,^P S. Hockett,^P B.R. Bayles, R. Chaplin-Kramer, L.P. Fredericks,^T T. Hedlund,^G V. Kowal, H. Tallis, C.M. Warui, S.A. Wood and **B.F. Allan**. 2018. Consequences of integrating livestock and wildlife in an African savanna. *Nature Sustainability* 1(10): 566-573.
- (40) Soliman, A.,^P A. Mackay,^P A. Schmidt, **B.F. Allan** and S. Wang. 2018. Quantifying the geographic distribution of built up area across the U.S. for urban sustainability studies. *Computers, Environment and Urban Systems* 71(2018): 199-208.
- (39) Josek, T.,^G K.O. Walden, **B.F. Allan**, M. Alleyne and H.M. Robertson. 2018. A foreleg transcriptome for *Ixodes scapularis* ticks: Candidates for chemoreceptors and binding proteins that might be expressed in the sensory Haller's organ. *Ticks and Tick-Borne Diseases* 9(5): 1317-1327.
- (38) Halsey, S.J., **B.F. Allan** and J.R. Miller. 2018. The role of *Ixodes scapularis*, *Borrelia burgdorferi* and wildlife hosts in Lyme disease prevalence: A quantitative review. *Ticks and Tick-Borne Diseases* 9(2018):1103-1114.
- (37) Keesing, F., R. Ostfeld, T. Young and **B.F. Allan**. 2018. Cattle and rainfall affect tick abundance in central Kenya. *Parasitology* 145(3): 345-354.
- (36) Josek, T.,^G **B.F. Allan** and M. Alleyne. 2017. Morphometric analysis of chemoreception organ in male and female ticks (Acari: Ixodidae). *Journal of Medical Entomology* 55(3): 547-552.
- (35) Updyke, E.A.,^G and **B.F. Allan**. 2017. An experimental evaluation of cross-vane panel traps for the collection of sylvatic triatomines. *Journal of Medical Entomology* 55(2): 485-489.
- (34) VanderWaal, K., M. Gilbertson, S. Okanga,^P **B.F. Allan** and M. Craft. 2017. Seasonality and pathogen transmission in pastoral cattle contact networks. *Royal Society Open Science* 4(12): 170808.
- (33) Schieltz, J., S. Okanga,^P **B.F. Allan** and D. Rubenstein. 2017. GPS tracking cattle as a monitoring tool for conservation and management. *African Journal of Range & Forage Science* 34(3): 173-177.
- (32) Titcomb, G., **B.F. Allan**, T. Ainsworth, L. Henson, T. Hedlund,^G R.M. Pringle, T.M. Palmer, L. Njoroge, M.G. Campana, R. Fleisher, J.N. Mantas and H.S. Young. 2017. Interacting effects of wildlife loss and climate on ticks and tick-borne disease. *Proceedings of the Royal Society B* 284(1862): 20170475.
- (31) Gardner, A.M.,^G E.J. Muturi, L.D. Overmier^U and **B.F. Allan**. 2017. Large-scale removal of invasive Amur honeysuckle (*Lonicera maackii*) decreases abundance of mosquitoes and avian hosts. *EcoHealth* 14(4): 750-761.
- (30) **Allan, B.F.**, H. Tallis, R. Chaplin-Kramer, S. Hockett,^P G. Kowal, J. Musengezi, S. Okanga,^P R. Ostfeld, S. Polasky, J. Schieltz, C. Warui, S. Wood and F. Keesing. 2017. Can integrating wildlife and livestock enhance delivery of ecosystem services in central Kenya? *Frontiers in Ecology and the Environment* 15(6): 328-335.
- (29) Parker, C.,^G J. Miller, and **B.F. Allan**. 2017. The influence of avian and habitat characteristics on tick infestation. *Journal of Medical Entomology* 54(3): 550-558.
- (28) Bayles, B., K. Brauman, J. Adkins, **B.F. Allan**, A. Ellis, T. Goldberg, C. Golden, D. Grigsby-Toussaint, S. Myers, S. Osofsky, T. Ricketts and J. Ristaino. 2016. Ecosystem services connect environmental change to human health outcomes. *EcoHealth* 13: 443-449.
- (27) Springer, Y.P., D. Hoekman, P.T.J. Johnson, P.A. Duffy, R.H. Kao, D.T. Barnett, **B.F. Allan**...M.J. Yabsley. 2016. Continental-scale surveillance of infectious agents: Tick-, mosquito-, and rodent-borne parasite sampling designs for the National Ecological Observatory Network (NEON). *Ecosphere* 7(5): 1-40.
- (26) Guerra, A., R. Eckerlin, A. Dowling, L. Durden, R. Robbins, K. Dittmar de la Cruz, K. Helgen, K. Lone, B. Agwanda, **B.F. Allan**, T. Hedlund,^G H. Young. 2016. Host-parasite associations in small mammal communities in semiarid savanna ecosystems of East Africa. *Journal of Medical Entomology* 53(4): 851-860.
- (25) Fredericks, L.P.,^T D. Forgacs,^U J. Yu^T and **B.F. Allan**. 2016. An expanded reverse line blot hybridization protocol for the detection of numerous North American tick-borne pathogens. *Journal of Medical Entomology* 53(3): 721-726.
- (24) Mackay, A.J.,^P E.J. Muturi, M.P. Ward and **B.F. Allan**. 2016. A cascade of ecological consequences for West Nile virus transmission when aquatic macrophytes invade stormwater habitats. *Ecological Applications* 26(1): 219-232.
- (23) Gardner, A.M.,^G **B.F. Allan**, L.A. Frisbie^U and E.J. Muturi. 2015. Asymmetric effects of native and exotic shrubs on vector mosquito ecology. *Parasites & Vectors* 8(1): 329.
- (22) LaDeau, S.L., **B.F. Allan**, P.T. Leisnham and M.Z. Levy. 2015. The ecological foundations of transmission potential and vector-borne disease in urban landscapes. *Functional Ecology* 29(7): 889-901.
- (21) Schneider, S.C.,^G C.M. Roy,^G J.R. Miller, L.P. Fredericks^T and **B.F. Allan**. 2015. Assessing the contribution of songbirds to the movement of ticks and *Borrelia burgdorferi* in the midwestern United States during fall migration. *EcoHealth* 12(1): 164-173.
- (20) Bayles, B.R.,^G and **B.F. Allan**. 2014. Biological and socioeconomic factors determine spatial variation in human incidence of tick-borne ehrlichiosis. *Epidemiology and Infection* 142(09): 1911-1924.
- (19) Muturi, E.J., J.L. Spencer and **B.F. Allan**. 2014. Influence of biofuel crops on mosquito production and oviposition. *Global Change Biology: Bioenergy* 6(1): 61-66.

- (18) Keesing, F., **B.F. Allan**, T.P. Young and R.S. Ostfeld. 2013. Effects of wildlife and cattle on tick abundance in central Kenya. *Ecological Applications* 23(6): 1410-1418.
- (17) Bayles, B.R.,^G G. Evans and **B.F. Allan**. 2013. Knowledge and prevention of tick-borne diseases vary across an urban-to-rural human land-use gradient. *Ticks and Tick-Borne Diseases* 4(4): 352-358.
- (16) Muturi, E.J., **B.F. Allan** and J. Ricci. 2012. Influence of detritus type on production and fitness of container-breeding mosquitoes. *Environmental Entomology* 41(5): 1062-1068.
- (15) Goessling, L.S., **B.F. Allan**, R.S. Mandelbaum and R.E. Thach. 2012. Development of mitochondrial 12S rDNA analysis for distinguishing Sciuridae species with potential to transmit *Ehrlichia* and *Borrelia* species to feeding *Amblyomma americanum* (Acari: Ixodidae). *Journal of Medical Entomology* 49(3): 772-776.
- (14) Fritzsche, A.^T and **B.F. Allan**. 2012. The ecology of fear: Host foraging behavior varies with the spatio-temporal abundance of a dominant ectoparasite. *EcoHealth* 9(1): 70-74.
- (13) Orrock, J., **B.F. Allan** and C. Drost. 2011. Biogeographic and ecological regulation of disease: Prevalence of Sin Nombre virus in island mice is related to island area, precipitation, and predator richness. *American Naturalist* 177(5): 691-697. Recommended article on Faculty of 1000: <http://f1000.com/11820956>
- (12) Kensinger, B.J.^T and **B.F. Allan**. 2011. Efficacy of dry-ice baited traps for sampling *Amblyomma americanum* (Acari: Ixodidae) varies with life-stage but not habitat. *Journal of Medical Entomology* 48(3): 708-711.
- (11) **Allan, B.F.**, H.P. Dutra, L.S. Goessling, K. Barnett, J.M. Chase, R.J. Marquis, G.C. Pang,^U G.A. Storch, R.E. Thach and J.L. Orrock. 2010. Invasive honeysuckle eradication reduces tick-borne disease risk by altering host dynamics. *Proceedings of the National Academy of Sciences* 107(43): 18523-18527.
- (10) **Allan, B.F.**, L.S. Goessling, G.A. Storch and R.E. Thach. 2010. Blood meal analysis to identify reservoir hosts for *Amblyomma americanum* ticks. *Emerging Infectious Diseases* 16(3): 433-440.
- (9) **Allan, B.F.**, T.S. Varns^U and J.M. Chase. 2010. Fear of parasites: Lone star ticks increase giving-up densities in white-tailed deer. *Israel Journal of Ecology and Evolution* 56(3-4): 313-324.
- (8) **Allan, B.F.** 2009. The effects of forest management practices on human risk of exposure to tick-borne diseases. Doctoral Dissertation. Washington University in Saint Louis.
- (7) **Allan, B.F.** 2009. Influence of prescribed burns on the abundance of *Amblyomma americanum* (Acari: Ixodidae) in the Missouri Ozarks. *Journal of Medical Entomology* 46(5): 1030-1036.
- (6) **Allan, B.F.**, R.B. Langerhans, W.A. Ryberg, W.J. Landesman, N.W. Griffin, R.S. Katz,^T B.J. Oberle, M. Schutzenhofer, K.N. Smyth, A. de St. Maurice, L. Clark, K.R. Crooks, D. Hernandez, R.G. McLean, R.S. Ostfeld and J.M. Chase. 2009. Ecological correlates of risk and incidence of West Nile Virus in the United States. *Oecologia* 158(4): 699-708.
- (5) Orrock, J.L. and **B.F. Allan**. 2008. Sin Nombre virus infection in deer mice, Channel Islands, California. *Emerging Infectious Diseases* 14(12): 1965-1966.
- (4) Landesman, W.J., **B.F. Allan**, R.B. Langerhans, T.M. Knight and J.M. Chase. 2007. Inter-annual associations between precipitation and human incidence of West Nile Virus in the United States. *Vector-Borne and Zoonotic Diseases* 7(3): 337-343.
- (3) McCauley, D.J., F. Keesing, T.P. Young, **B.F. Allan** and R.M. Pringle. 2006. Indirect effects of large herbivorous mammals on snakes in an African savanna. *Ecology* 87(10): 2657-2663.
- (2) Goheen, J.R., F. Keesing, **B.F. Allan**, D.L. Ogada and R.S. Ostfeld. 2004. Net effects of large mammals on *Acacia* seedling survival in an African savanna. *Ecology* 85(6): 1555-1561.
- (1) **Allan, B.F.**, F. Keesing and R.S. Ostfeld. 2003. The effect of forest fragmentation on Lyme disease risk. *Conservation Biology* 17(1): 267-272.

CURRENT GRANTS

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|-----------|---|
| 2018-2023 | NSF, Coupled Natural and Human Systems Grant: Coupled dynamics of tourism and mosquito-borne disease transmission in the Americas. PI: Allison Gardner, Co-PIs: Brian Allan, Aiman Soliman, Sandra Urisote-Stone and Shaowen Wang. Award: \$1,576,788 |
| 2018-2022 | NSF, Division of Environmental Biology Grant: Community assembly across scales of spatial organization. PI: Carla Caceres, Co-PIs: Brian Allan, Allison Hansen and Zoi Rapti. Award: \$800,000 |
| 2016-2021 | Strategic Environmental Research and Development Program: Climate change impacts on fire regimes, plant invasions and tick-borne diseases. PI: Brian Allan, Co-PIs: Luke Flory and Michael Dietze. Award: \$2,453,879 |

PREVIOUS GRANTS

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| 2018-2019 | USGS Illinois Water Resources Center Grant: An experimental evaluation of the contribution of rain barrels to mosquito production. PI: Brian Allan, Co-PI: Allison Parker. Award: \$10,000 |
| 2017-2019 | NSF, Doctoral Dissertation Improvement Grant: Forecasting potential effects of climate change on tick-borne disease dynamics in Central Panama. PI: Brian Allan, Co-PI: Erin Welsh. Award: \$20,542 |

- 2017-2018 University of Illinois School of Integrative Biology Joseph B. Hawkes Award: A research, teaching and training program in Eleuthera, Bahamas. PI: Brian Allan. Award: \$8,000
- 2016-2018 University of Illinois Research Board Grant*: The ecology and epidemiology of neglected vector-borne diseases in Panama. PI: Brian Allan. Award: \$29,958 *Received further distinction via the Arnold O. Beckman Award
- 2015-2018 University of Illinois Institute for Sustainability, Energy and Environment Seed Grant: Engineering the microbial and stormwater environment for mosquito control. PI: Brian Allan, Co-PIs: Carla Caceres, Allison Hansen, Juma Muturi, Marilyn O'Hara Ruiz, Arthur Schmidt & Shaowen Wang. Award: \$350,000
- 2014-2016 NIH NIAID R03, Vector Biology Panel: Green stormwater infrastructure: An unrecognized opportunity to manage mosquito-borne disease risk in urban environments. PI: Brian Allan, Co-PIs: Andrew Mackay, Juma Muturi & Michael Ward. Award: \$158,600
- 2014-2015 USDA North Central Integrated Pest Management Center's Working Group Grants Program: The role of Green Infrastructure in current and future urban stormwater management policies and practices, and implications for the ecology and management of vector mosquitoes in the North Central Region. PI: Brian Allan, Co-PI: Andrew Mackay. Award: \$30,000
- 2013-2016 NSF Coupled Natural and Human Systems Grant: An ecological trap for parasites and its impact on human disease risk, nutrition and income. PI: Brian Allan, Co-PIs: Gretchen Daily, Felicia Keesing, Richard Ostfeld & Stephen Polasky. Award: \$1,500,000
- 2013-2015 University of Illinois Future Interdisciplinary Research Explorations Grant: Forest fragmentation, wildlife habitat use, and the geographic expansion of Lyme disease. PI: James Miller, Co-PI: Brian Allan. Award: \$38,973
- 2013-2014 University of Illinois Center for a Sustainable Environment Sustainability Fellowship: Can green stormwater best management practices reduce mosquito-borne disease risk? PI: Brian Allan. Award: \$38,139
- 2013-2014 University of Illinois Center for One Health Capstone Grant: The influence of urban stormwater management practices on mosquito blood feeding behavior and the potential for West Nile Virus epizootic amplification. PI: Brian Allan, Co-PI: Andrew Mackay, MPH Student: Arsema Weldu. Award: \$10,000
- 2013-2014 USGS Illinois Water Resources Center Grant: Influence of water quality and stormwater management on the ecology of mosquito-borne disease. PI: Brian Allan, Co-PI: Andrew Mackay. Award: \$10,000
- 2012-2013 USDA North Central Integrated Pest Management Center Mini-Grant: Can "green" stormwater management enhance mosquito control in urban environments? PI: Brian Allan, Co-PI: Andrew Mackay. Award: \$10,000
- 2012-2014 National Academies Keck Futures Initiative Ecosystem Services Grant: New molecular, ecological, and mathematical analyses of the domestic and sylvatic transmission cycles of Chagas disease in the perspective of ecosystem services and disservices. PI: Brian Allan, Co-PIs: Ricardo Gurtler & Joel Cohen. Award: \$50,000
- 2011-2013 University of Illinois Research Board Grant*: Exploring the consequences of large mammal extirpations and global change for the transmission dynamics of tick-borne diseases in African savannas. PI: Brian Allan, Co-PI: Felicia Keesing. Award: \$29,978 *Received further distinction via the Arnold O. Beckman Award
- 2011-2012 USDA North Central Integrated Pest Management Center Grant: Managing for biodiversity and reduced tick-borne disease risk in a metropolitan landscape. PI: Brian Allan. Award: \$75,000
- 2011 William and Flora Hewlett International Conference Grant: Environmental determinants of vector-borne disease emergence and resurgence. Organizer: Juma Muturi, Co-Organizers: Brian Allan & Marilyn Ruiz. Award: \$7,000
- 2009-2011 EPA Pesticide Registration Improvement Renewal Act Partnership Grant: Developing landscape design guidelines for mitigating human risk of exposure to lone star tick-associated diseases. PI: Jonathan Chase, Co-PIs: Brian Allan & Robert Thach. Award: \$237,439
- 2004-2009 Graduate Awards and Fellowships: Environmental Protection Agency Science To Achieve Results (STAR) Graduate Fellowship, National Science Foundation Doctoral Dissertation Improvement Grant (DDIG), National Fish and Wildlife Foundation Budweiser Conservation Scholarship, American Philosophical Society Lewis & Clark Fund for Exploration and Field Research, Organization for Tropical Studies Research Fellowship, Explorer's Club Exploration Fund Grant, Webster Groves Nature Study Society Scholarship, Saint Louis Audubon Society Graduate Research Scholarship, Tyson Research Center Crescent Hills Research Fund Grant. Awards: \$122,359

TEACHING

*Denotes placement on the "List of teachers ranked excellent by their students" at University of Illinois

- 2019, Fall Planetary Health (IB 546),* University of Illinois
- 2019, Spring Ecology and Human Health (IB 361),* University of Illinois
- 2018, Spring Ecology and Human Health (IB 361),* Vector-Borne Diseases (IB 481),* University of Illinois
- 2018, Winter Sustainability in the Bahamas (GLBL 298),* University of Illinois
- 2017, Spring Ecology and Human Health (IB 361),* University of Illinois
- 2017, Winter Sustainability in the Bahamas (GLBL 298),* University of Illinois

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| 2016, Spring | Ecology and Human Health (IB 361),* Biology of Disease Vectors (IB 481),* University of Illinois |
| 2016, Winter | Sustainability in the Bahamas (GLBL 298),* University of Illinois |
| 2015, Fall | Ecology of Infectious Diseases (IB 546),* Introduction to Graduate Studies (IB 546), University of Illinois |
| 2015, Spring | Ecology and Human Health (IB 361),* University of Illinois |
| 2014, Fall | Introduction to Graduate Studies (IB 546), University of Illinois |
| 2014, Spring | Ecology and Human Health (IB 361),* Biology of Disease Vectors (IB 481),* Interdisciplinary Training in Hydrology and Infectious Diseases (IB 526), University of Illinois |
| 2013, Fall | Interdisciplinary Training in Hydrology and Infectious Diseases (IB 526), University of Illinois |
| 2013, Spring | Ecology and Human Health (IB 361),* University of Illinois |
| 2012, Spring | Ecology and Human Health (IB 361),* Biology of Disease Vectors (IB 481),* University of Illinois |
| 2011, Spring | Ecology and Human Health (IB 361),* History of Medical Entomology (IB 526),* University of Illinois |
| 2010, Spring | Practical Skills in Environmental Biology Research (Environmental Studies 393), Washington University |
| 2004-2008 | Teaching Assistant: Behavioral Ecology (Biology 372), Ecology (Biology 372), Community Ecology (Biology 419), Conservation Biology (Biology 317), Washington University |
| 2002-2003 | Teaching Assistant: General Biology I & II (Biology 101 & 102), Rutgers University |

MENTORING

Postdoctoral Associates:

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| 2018 | Dr. Brandon Lieberthal, currently Postdoctoral Associate, University of Maine, Orono, ME |
| 2016-2018 | Dr. Aiman Soliman, currently Research Scientist, National Center for Supercomputing Applications, Urbana, IL |
| 2016 | Dr. Allison Gardner, currently Assistant Professor, School of Biology and Ecology, University of Maine, Orono, ME |
| 2014-2015 | Dr. Steven Hockett, currently Conservation Programs Director, Great River Greening, Saint Paul, MN |
| 2013-2016 | Dr. Sharon Okanga, currently Lecturer, Africa Nazarene University, Nairobi, Kenya |
| 2012-2018 | Dr. Andrew Mackay, currently Associate Scientist, Medical Entomology Laboratory, Illinois Natural History Survey, Champaign, IL |

Graduate Students:

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| 2019-Present | J. Matt Flenniken, M.S. Student, Department of Entomology, University of Illinois |
| 2019-Present | Sulagna Chakraborty, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2017-2019 | Elijah Juma, Ph.D. Student, Department of Entomology, University of Illinois |
| 2016-2019 | Allison Parker, Ph.D., Department of Entomology, University of Illinois |
| 2013-2018 | Erin Allmann Updyke, M.D./Ph.D., Medical Scholars Program & Department of Entomology, University of Illinois |
| 2013-2018 | Erin Welsh, Ph.D., Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2013-2016 | Allison Parker, M.S., Department of Entomology, University of Illinois (co-advised with Dr. Juma Muturi) |
| 2013-2015 | Tyler Hedlund, M.S., Department of Entomology, University of Illinois |
| 2012-2016 | Allison Gardner, Ph.D., Department of Entomology, University of Illinois (co-advised with Dr. Juma Muturi) |

Laboratory Technicians:

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| 2012-2013 | Johnny Yu, M.S. in Entomology from University of Illinois |
| 2011-Present | Dr. Page Fredericks, Ph.D. in Biology from University of Louisiana |

Graduate Thesis Committees:

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|--------------|--|
| 2019-Present | Corbyn Giers, Ph.D. Student, Department of Entomology, University of Illinois |
| 2019-Present | Ellen Haynes, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2019-Present | Cameron Schwing, M.S. Student, Department of Evolution, Ecology and Behavior, University of Illinois |
| 2018-Present | Morgan Meador, M.S. Student, Department of Natural Resources and Environmental Sciences, University of Illinois |
| 2018-Present | Johnny Uelmen, Ph.D. Student, Department of Pathobiology, University of Illinois |
| 2018-Present | Lee Ann Lyons, Ph.D. Student, Department of Pathobiology, University of Illinois |
| 2018-Present | Robert de Moya, Ph.D. Student, Department of Entomology, University of Illinois |
| 2018-2019 | Rafael Achury, Ph.D. Student, Department of Entomology, University of Illinois |
| 2018 | Linnea Meier, Ph.D. Student, Department of Entomology, University of Illinois |
| 2017-2019 | Kelsey Low, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2015-Present | Nicholas Anderson, Ph.D. Student, Department of Entomology, University of Illinois |
| 2015-2019 | Tanya Josek, Ph.D. Student, Department of Entomology, University of Illinois |
| 2015-2019 | Sanniqueka Halsey, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2014-2019 | Todd Johnson, Ph.D. Student, Department of Entomology, University of Illinois |
| 2014-2019 | Christopher Holmes, Ph.D. Student, Department of Animal Biology, University of Illinois |
| 2014-2019 | Tara Stewart, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2013-2018 | Andrew Sweet, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2015-2016 | Scott Cinel, M.S. Student, Department of Entomology, University of Illinois |
| 2015-2016 | Eric South, M.S. Student, Department of Entomology, University of Illinois |
| 2014-2015 | Tanya Josek, M.S. Student, Department of Entomology, University of Illinois |
| 2014-2015 | Thomas Schmeelk, M.S. Student, Department of Entomology, University of Illinois |
| 2013-2016 | Phong Le, Ph.D. Student, Department of Civil and Environmental Engineering, University of Illinois |
| 2013-2014 | Tolulope Agunbiade, Ph.D. Student, Department of Entomology, University of Illinois |
| 2012-2015 | Christine Parker, M.S. Student, Department of Natural Resources and Environmental Sciences, University of Illinois |

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| 2012-2014 | Sarah Schneider, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2011-2016 | Joseph Wong, M.S. & Ph.D. Student, Department of Entomology, University of Illinois |
| 2011-2014 | Stacy Beyer, M.S. Student, Department of Natural Resources and Environmental Sciences, University of Illinois |
| 2010-2014 | Bethany Krebs, Ph.D. Student, Program in Ecology, Evolution and Conservation Biology, University of Illinois |
| 2010-2012 | Brett Bayles, Ph.D. Student, School of Public Health, Saint Louis University |
| 2010-2012 | Allison Gardner, M.S. Student, Department of Pathobiology, University of Illinois |
| 2010-2012 | Imelda Moise, Ph.D. Student, Department of Geography, University of Illinois |

External Examiner:

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| 2013 | Clare Anstead, Ph.D. Candidate, Department of Biology, University of Saskatchewan |
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NONTHESIS RESEARCH AND INDEPENDENT STUDY MENTORING

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| 2019 | <i>Graduate:</i> | Steven Cabrera and Drew Hiatt (UIUC; co-advised with Luke Flory and Whalen Dillon) |
| | <i>Undergraduate:</i> | Anil Chakravorty, Claire Dust, Kristof Gutowski, Eddie Lewis, Rachel Miller, Abigail Pstrzoch and Morgan Race (UIUC; co-advised with Elijah Juma and Allison Parker) |
| 2018 | <i>Graduate:</i> | Steven Cabrera, Elena Meyer, Manuel Perez, Elizabeth White (UIUC; co-advised with Whalen Dillon) |
| | <i>Undergraduate:</i> | Maria Delgado, Claire Dust, Leah Edwards-Blinderman, Alicia Gomez, Erica Hernandez, Eddie Lewis, Kelsey McGill, Rosemary Ogbonna and Veronica Passarelli (UIUC; co-advised with Elijah Juma, Andrew Mackay and Allison Parker) |
| 2017: | <i>Graduate:</i> | Christina Harden, Tyler Hedlund, Madison Moore, Alison Ochs and Catherine Wangen (UIUC; co-advised with Whalen Dillon, Allison Gardner and Andrew Mackay) |
| | <i>Undergraduate:</i> | Sofiya Bobrovska, Laura Burns, Jennifer Buschbach, Maria Delgado, Charmaine Dortch, Claire Dust, Leah Edwards-Blinderman, Erica Hernandez, Dane Johnson, Madison Moore, Gabriela Murillo, William Nelson, Rosemary Ogbonna, Salim Omar, Veronica Passarelli, Manuel Perez, John Podczerwinski and Catherine Wiegand (UIUC; co-advised with Andrew Mackay and Allison Parker) |
| 2016 | <i>Graduate:</i> | Tyler Hedlund and Catherine Wangen (UIUC; co-advised with Andrew Mackay) |
| | <i>Undergraduate:</i> | Samuel Brolley, Tevon Brooks, Sara Desmond, Erica Hernandez, Kristian Hopkins, Katherine Jodlowski, Dane Johnson, Aazam Khan, Kristyn Krolkowski, Erik Krueger, Katherine Lincoln, Sarah Marshall, Thitipong Mongkolrattanothai, Madison Moore, Cecily Negri, William Nelson, Christina Nowicki, Leah Overmier, Mario Pacheco, Manuel Perez, John Podczerwinski, Kathryn Thornton, Catherine Wiegand and Summer Ziegler (UIUC; co-advised with Page Fredericks, Allison Gardner, Andrew Mackay and Allison Parker) |
| 2015 | <i>Graduate:</i> | Britinee Haskins (UIUC; co-advised with Allison Gardner) |
| | <i>Undergraduate:</i> | Tevon Brooks, Jennifer Buschbach, Zhangying Chen, Emily Dejka, Jacklyn Duple, Matt Edinger, Brian Fitzsimmons, Megan Flanagan, Christopher Jeon, Christopher Jon, Reanna Kayser, Erik Krueger, Katherine Lincoln, Noor Malik, Victor Martinez, Sydney Miller, Eleanor Moen*, Thitipong Mongkolrattanothai, Christina Nowicki, Leah Overmier, Marisa Pater, Manuel Perez, Taylor Rehberg, Dominique Sanders, Sonali Sharma, Samantha Shepherd, Mary Simon, Chelsea Vargas, Taylor Weathers, Catherine Wiegand and Nicole Wonderlin (UIUC; co-advised with Allison Gardner, Andrew Mackay and Allison Parker) |
| | | <i>*Thesis research project received "Distinction"</i> |
| 2014 | <i>Graduate:</i> | Matt Holland and Brittany Willeford (UIUC; co-advised with Andrew Mackay) |
| | <i>Undergraduate:</i> | Jessica Berg, Alexandra Braet, Zhangying Chen, Jacklyn Duple, Matt Edinger, Megan Flanagan, Lauren Frisbie, Jacob Glowacki, Kaitlyn Krejsa, Keelan Lang, Dallas Levey, Noor Malik, Michelle Manious, Victor Martinez, Katherine Micek, Sydney Miller, Eleanor Moen, Tiffany Murphy, Natalie Pawlikowski*, Michael Provenzano, Samantha Shepherd and Chelsea Vargas (UIUC; co-advised with Allison Gardner and Andrew Mackay) |
| | | <i>*Thesis research project received "High Distinction" and the "Helen E. Hess Award"</i> |
| 2013 | <i>Graduate:</i> | Phoebe Barkan and Arsema Weldu (UIUC; co-advised with Page Fredericks and Andrew Mackay) |
| | <i>Undergraduate:</i> | Brittani' Batts, Matt Edinger, Scott Ferguson, David Forgacs,* Lauren Frisbie, Daniel Girzadas, Jacob Glowacki, Tyler Hedlund, Dallas Levey, Michelle Manious, Eleanor Moen, Tiffany Murphy, Chandresh Nandan, Natalie Pawlikowski, Michael Provenzano, Johann Sniezck and Douglas Wright (UIUC; co-advised with Page Fredericks, Allison Gardner, Andrew Mackay and Johnny Yu) |
| | | <i>*Thesis research project received "Distinction"</i> |
| 2012 | <i>Graduate:</i> | Cari Rasmussen, Sarah Reich and Johnny Yu (UIUC; co-advised with Page Fredericks and Andrew Mackay) |

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| | <i>Undergraduate:</i> | Kendall Annetti, Phoebe Barkan, Allison Canty, David Forgacs, Daniel Girzadas, Tyler Hedlund, Audrey Killarney, William Legare, Erin Murphy, Natalie Pawlikowski, Spencer Threw and Ulises Rodriquez (UIUC; co-advised with Page Fredericks and Andrew Mackay) |
| 2011 | <i>Graduate:</i> | Sarah Andermann (UIUC) and Lindsay Brewster (Maryville U.) |
| | <i>Undergraduate:</i> | Adam Devine, Stephen Gainey and Ronald Stewart (UIUC) |
| 2010 | <i>Graduate:</i> | Alexa Fritzsche (U. Georgia) and Carolyn Hilliard (Saint Louis U.) |
| | <i>Undergraduate:</i> | Brett Decker, Akhila Narla and Jeremy Pivor (Washington U.) |
| | <i>High School:</i> | Amy Fjerstad, Ahmed Said and Franklin Warner (Tyson Fellows) |
| 2009 | <i>Graduate:</i> | Bart Kensinger (Oklahoma State U.) |
| | <i>Undergraduate:</i> | Reed Otten and Genevieve Pang (Washington U.) |
| | <i>High School:</i> | Kate Brinker, Asad Helal, Will Klein and Emily Stein (Tyson Fellows) |
| 2008 | <i>Undergraduate:</i> | Genevieve Pang (Washington U.) |
| 2006 | <i>K-12 Teacher:</i> | John McGrath (St. Louis High School) |
| | <i>Undergraduate:</i> | Cameron Williams (Washington U.) |
| 2005 | <i>K-12 Teacher:</i> | Brett Barron and John McGrath (St. Louis High School) |
| 2004 | <i>Graduate:</i> | Rachael Katz (North Carolina State U.) |
| | <i>Undergraduate:</i> | Theodore Varns (Washington U.) |

INVITED SEMINARS AND PRESENTATIONS

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| 2019 | Annual Meeting of the Ecological Society of America, Louisville, KY. |
| 2018 | Department of Entomology, University of California, Riverside, CA. SESYNC Symposium, Boundary Spanning: Advances in Socio-Environmental Systems Research, Annapolis, MD. Sesquicentennial Symposium: Uniting Infection Biology for One Health, Urbana, IL. |
| 2017 | 3 rd International Congress on Parasites of Wildlife, Kruger National Park, South Africa. iSEE Congress, Institute for Sustainability, Energy and Environment, Urbana, IL. Annual Meeting of the Indiana Vector Control Association, Bloomington, IN. Department of Entomology, University of Wisconsin, Madison, WI. Department of Entomology, Michigan State University, East Lansing, MI. Department of Biological Sciences, Purdue University, West Lafayette, IN. |
| 2016 | Annual Meeting of the Illinois Mosquito and Vector Control Association, Springfield, IL. Entomology & Insect Science Graduate Interdisciplinary Program, Henry H. Hagedorn Student Invited Speaker, University of Arizona, Tucson, AZ. Department of Zoology and Physiology, University of Wyoming, Laramie, WY. International Congress of Entomology, Orlando, FL. Annual Meeting of the Ecological Society of America, Ft. Lauderdale, FL. |
| 2015 | Society for Freshwater Science, Milwaukee, WI. Tyson Research Center, Washington University, St. Louis, MO. Annual Meeting of the Ecological Society of America, Baltimore, MD. |
| 2014 | Cary Institute of Ecosystem Studies, Millbrook, NY. |
| 2013 | Annual Meeting of the Entomological Society of America, Austin, TX. Department of Zoology, Southern Illinois University, Carbondale, IL. Odum School of Ecology, University of Georgia, Athens, GA. Annual Meeting of The Wildlife Society, Milwaukee, WI. Department of Biology, University of Saskatchewan, Saskatoon, Canada. |
| 2012 | Department of Biological Sciences, Northern Illinois University, DeKalb, IL. Department of Natural Resources and Environmental Sciences, University of Illinois Urbana-Champaign, IL. |
| 2011 | Department of Biology, Indiana University, Bloomington, IN. Department of Biology, Illinois State University, Bloomington-Normal, IL. Annual Meeting of the Illinois Mosquito and Vector Control Association, Urbana, IL. Program in Ecology, Evolution and Conservation Biology, University of Illinois Urbana-Champaign, Urbana, IL. Illinois Natural History Survey, University of Illinois Urbana-Champaign, Urbana, IL. Cross Disciplinary Symposium on Vector-Borne Disease, Mineral Areas College, Farmington, MO. |
| 2010 | Department of Entomology, University of Illinois Urbana-Champaign, Urbana, IL. Annual Meeting of the Natural Areas Association, Lake of the Ozarks, MO. Annual Meeting of the Missouri Ozark Forest Ecosystem Project, Springfield, MO. |
| 2009 | Department of Epidemiology, University of Michigan, Ann Arbor, MI. Selected Zoonotic Diseases Conference Call, Centers for Disease Control and Prevention. |
| 2008 | Department of Biology, Indiana University, Bloomington, IN. Annual Meeting of the Missouri Public Health Association, St. Charles, MO. Annual Meeting of the Missouri Vector and Mosquito Control Association, St. Louis, MO. |
| 2007 | The 7 th National Conference on Science, Policy and the Environment in Washington D.C.: Integrating the Environment and Human Health, Washington D.C. |

SUBMITTED PRESENTATIONS

- 2019 Annual Meeting of the Ecological Society of America, Louisville, KY: Four co-authored presentations.
- 2018 Annual Meeting of the Entomological Society of America, Vancouver, BC: Two co-authored presentations.
Annual Meeting of the Ecological Society of America, New Orleans, LA: Two co-authored presentations.
- 2017 Annual Meeting of the Entomological Society of America, Denver, CO: One co-authored presentation.
Annual Meeting of the Ecological Society of America, Portland, OR: Three co-authored presentations.
- 2016 International Congress of Entomology, Orlando, FL: Two co-authored presentations.
Annual Meeting of the Ecological Society of America, Ft. Lauderdale, FL: One co-authored presentation.
- 2015 Annual Meeting of the Entomological Society of America, Minneapolis, MN: Three co-authored presentations.
Annual Meeting of the Ecological Society of America, Baltimore, MD: One co-authored presentation.
- 2014 Annual Meeting of the Entomological Society of America, Portland, OR: Six co-authored presentations.
- 2013 Annual Meeting of the Entomological Society of America, Austin, TX: One co-authored presentation.
Annual Meeting of the Ecological Society of America, Minneapolis, MN: One co-authored presentation.
Annual American Ornithologist's Union and Annual Cooper Ornithological Society Joint Meeting, Chicago, IL: One co-authored presentation.
- 2011 Annual Meeting of the Entomological Society of America, Reno, NV: One first-authored presentation.
- 2010 Annual Meeting of the Organization of Biological Field Stations, Pellston, MI: One first-authored presentation.
Annual Meeting of the International Association of Landscape Ecologists, Athens, GA: One first-authored presentation.
- 2009 Annual Meeting of the Ecological Society of America: One first-authored presentation.
Annual Meeting of the North American Benthological Society, Grand Rapids, MI: One first-authored presentation (received Best Oral Presentation in Applied Research Award).
- 2008 Annual Meeting of the Ecological Society of America: One first-authored presentation.
- 2007 Annual Meeting of the Ecological Society of America: One first-authored presentation.
- 2006 Annual Meeting of the Ecological Society of America: One first-authored presentation.
Annual Meeting of the Midwest Ecology and Evolution Conference: One first-authored presentation.
The Fourth International Conference on the Ecology and Evolution of Infectious Diseases, State College, PA: One first-authored presentation.
- 2005 Annual Meeting of the Ecological Society of America: One first-authored, two co-authored presentations.
Annual Meeting of the Midwest Ecology and Evolution Conference: One first-authored presentation.
The Eleventh Cary Conference: Ecology of Infectious Diseases, Millbrook, NY: One first-authored presentation.
The First International Urban/Rural Interfaces Conference, Atlanta, GA: One first-authored presentation.
- 2004 Annual Meeting of the Ecological Society of America: One first-authored presentation.
Annual Meeting of the Midwest Ecology and Evolution Conference: One first-authored presentation.
- 2003 Annual Meeting of the Ecological Society of America: One co-authored presentation.
Annual Meeting of the Northeast Ecology and Evolution Conference, New Brunswick, NJ: One first-authored presentation.
- 2002 Annual Meeting of the Ecological Society of America: One first-authored presentation.
- 2001 Annual Meeting of the Ecological Society of America: One co-authored presentation.
The Second African Acarology Symposium, Nairobi, Kenya: One first-authored presentation.

INVITED WORKSHOPS

- 2019 National Socio-Environmental Synthesis Center (SESYNC) Pursuit: Modeling Risk Perception, Vector-borne Diseases, and Environmental Integrity: Understanding Environmental Impacts of Policy Decisions for Vector Control, Annapolis MD.
- 2013 Working Group for the Tick and Tick-Borne Disease Sampling Design, National Ecological Observatory Network.
- 2012 National Socio-Environmental Synthesis Center (SESYNC) Theme Planning Meeting, Annapolis, MD.
- 2011 Annual National Academies Keck Futures Initiative (NAKFI) Conference on Ecosystem Services: Charting a Path to Food Security that is a Win-Win for People and the Environment, Irvine, CA.
Mathematical Biosciences Institute Workshop on Spatio-Temporal Dynamics in Disease Ecology and Epidemiology, Ohio State University, Columbus, OH.

OUTREACH

- 2018 Presenter, Genomics for Judges, Carl R. Woese Institute for Genomic Biology, Urbana, IL.
- 2017 Presenter, Ann Arbor STEAM 7th grade biology unit in disease ecology, Ann Arbor, MI.
Presenter, Grand Prairie Friends, (Grassroots Conservation Organization), Urbana, IL.
- 2015 Presenter and Co-Organizer, "Tick Day" at the Mpala Research Centre, Nanyuki, Kenya.
Presenter, Ol Pejeta Conservancy senior management, Nanyuki, Kenya.
- 2014 Presenter, Champaign County Sustainability Network, Champaign, IL.
- 2013 Presenter, Beginning Teacher STEM Conference, University of Illinois.

- 2011 Presenter, Clifftop Alliance (Grassroots Conservation Organization), Waterloo, IL.
 2009 & 2010 Presenter, Ferring Scholars Program (High School Students), Washington University, St. Louis, MO.
 2007 & 2008 Presenter, Shaw Institute for Field Training (High School Students), Shaw Nature Reserve, Gray Summit, MO.
 2006 Presenter, NSF Institute for Biology Teachers, Washington University's Tyson Research Center, Eureka, MO.
 2005 Presenter, Webster Groves Nature Study Society, St. Louis, MO.
 2005 Presenter, Vashon High School Math and Science Club, St. Louis City Public Schools, St. Louis, MO.

SERVICE

Editorial Boards:

2020-Present Associate Editor, Proceedings of the Royal Society B: Biological Sciences, The Royal Society

University of Illinois Urbana-Champaign:

- 2019 Search Committee Member, Associate Scientist of Vector Ecology, Illinois Natural History Survey.
 2018-Present Team Science Visiting Scholar Program Coordinator, Carl R. Woese Institute for Genomic Biology.
 2018-2019 Illinois Task Force on Study Abroad Member, Office of the Provost.
 2018 Faculty Search Committee Member, School of Integrative Biology.
 2018 Field Research Working Group Member, Office of the Vice Chancellor for Research.
 2018 Student Presentation Judge, Graduates in Ecology and Evolutionary Biology Symposium.
 2017 Search Committee Member and Diversity Advocate, Coordinator of Student-Alumni Mentoring and Professional Development, School of Integrative Biology.
 2017 Search Committee Chair, Natural Areas Research Specialist, Illinois Natural History Survey.
 2016-Present Committee on Natural Areas Chair, Office of the Vice Chancellor for Research.
 2016-Present PEEC Representative, School of Integrative Biology Executive Committee.
 2016-2018 Illinois Study Abroad Policy Committee Member, Office of the Vice Provost for International Affairs and Global Strategies.
 2016-2017 Search Committee Member, Director of Medical Entomology Laboratory, Illinois Natural History Survey.
 2016 Search Committee Member, Natural Areas Coordinator, Illinois Natural History Survey.
 2015-Present Steering Committee Member, Institute for Sustainability, Energy and the Environment.
 2015 Student Presentation Judge, Graduates in Ecology and Evolutionary Biology Symposium.
 2014-2016 PEEC Representative, School of Integrative Biology Course & Curriculum Committee.
 2014-2015 Faculty Search Committee Member, Department of Animal Biology.
 2014 Search Committee Member, Merit Curriculum Specialist, School of Integrative Biology.
 2013-2014 Distinction Committee Member and Chair, School of Integrative Biology.
 2013 Search Committee Member, Sponsored Research Business Analyst, School of Integrative Biology.
 2012-2015 LAS Representative, Program in Ecology, Evolution and Conservation Biology Steering Committee.
 2012-2013 Faculty Search Committee Member and Diversity Advocate, Department of Animal Biology.
 2011-2015 Co-Director of Graduate Studies, Department of Entomology.
 2011 Student Presentation Judge, Graduates in Ecology and Evolutionary Biology Symposium.
 2010-2017 Steering Committee Representative, MD/PhD Medical Scholars Program.
 2010-2016 Committee on Natural Areas Member, Office of the Vice Chancellor for Research.

Conferences and Meetings:

- 2019 Co-Organizer, Institute for Sustainability, Energy and the Environment "Critical Conversation" on Genetically-Modified Mosquitoes, Chicago, IL.
 2018 Co-Lead, SESYNC Symposium, Boundary Spanning: Advances in Socio-Environmental Systems Research, Annapolis, MD.
 2015 Evaluator, Student Applications for the Buell/Braun Awards at the Annual Meeting of the Ecological Society of America in Baltimore, MD.
 2013 Organizer, Program Symposium, Annual Meeting of the Entomological Society of America, Austin, TX.
 2011 Co-Organizer, Prairie Research Institute International Conference on Environmental Determinants of Vector-Borne Disease Emergence and Resurgence, Illinois Natural History Survey, Champaign, IL.
 2007 Contributed Oral Session Presider, Annual Meeting of the Ecological Society of America in San Jose, CA.
 2006 Co-Organizer, Annual Meeting of the Midwest Ecology and Evolution Conference, Saint Louis University, MO.
 2005 Graduate Student Assistant, The 11th Cary Conference: Infectious Disease Ecology, Cary Institute of Ecosystem Studies, Millbrook, NY.
 2003 Graduate Student Assistant, The 10th Cary Conference: Ecosystem Function in Heterogeneous Landscapes, Cary Institute of Ecosystem Studies, Millbrook, NY.

Federal Agencies:

- 2019 Reviewer, National Science Foundation Dynamics of Integrated Socio-Environmental Systems (CNH2) Panel.
 2018 Ad hoc Reviewer, United Kingdom Research and Innovation and Japan Society for the Promotion of Science (UKRI-JSPS) Joint Call.
 2017 Reviewer, National Science Foundation Coupled Natural-Human Systems (CNH) Panel.
 Ad hoc Reviewer, National Science Foundation Career Awards.
 2014-2016 Stakeholder Panel Member, North Central Integrated Pest Management Center, USDA.

SERVICE AS REVIEWER

Journals: *African Journal of Ecology, American Journal of Tropical Medicine and Hygiene, Biological Conservation, Biology Letters, EcoHealth, Ecological Applications, Ecology, Ecology Letters, Ecosphere, Environmental Microbiology, Environmental Research Letters, Frontiers in Ecology and the Environment, F1000 Research, Hydrobiologia, Israel Journal of Ecology and Evolution, Journal of Applied Ecology, Journal of Medical Entomology, Journal of Vector Ecology, Landscape Ecology, Letters in Biomathematics, Molecular Ecology Resources, Nature Ecology & Evolution, Oecologia, Parasites & Vectors, Parasitology, Philosophical Transactions B, PLoS One, PLoS Neglected Tropical Diseases, Proceedings of the National Academy of Sciences, Scientific Reports, Ticks and Tick-Borne Diseases, and Vector-Borne and Zoonotic Diseases.*

Other Grants: *Graduate Women in Science Fellowship, National Geographic Society, Packard Foundation, Prairie Research Institute Matching Research Awards Program, SciFlies.org, and University of Illinois Campus Research Board.*

POPULAR MEDIA COVERAGE

My research has been featured in the BBC World Service Radio, Chicago Tribune, Conservation Magazine, Environmental Health Perspectives, German Public Radio, Men's Health Magazine, National Public Radio, National Wildlife Magazine, Nature, New York Times, Science, Scientific American, SELF Magazine, St. Louis Post-Dispatch, USA Today, and numerous other international, national and local media outlets.