

July 8, 2022

**MEGHAN A. DUFFY, PH.D.**  
**CURRICULUM VITAE**

Professor  
Department of Ecology and Evolutionary Biology  
University of Michigan

**Educational Background:**

B.S. Biological Sciences, *cum laude* 2000 Cornell University  
Mentor: Nelson Hairston, Jr.  
Ph.D. Zoology; Ecology, Evolutionary 2006 Michigan State University  
Biology, & Behavior  
Advisors: Alan Tessier and Jeff Conner

**Employment History:**

2018- Professor, Department of Ecology & Evolutionary Biology, University of Michigan  

- 2020-2021: due to the COVID-19 pandemic, we had no childcare for our preschooler from mid-March 2020-Sept 2021, and our two elementary-aged children had only 55 hours of in person schooling total during that time. There continued to be significant disruptions to schooling during the 2021-2022 Academic Year.

2014-2018 Associate Professor, Department of Ecology & Evolutionary Biology, University of Michigan  

- 2016: Two semesters of modified duties after birth of child

2012-2014 Assistant Professor, Department of Ecology & Evolutionary Biology, University of Michigan  

- 2013: One semester of modified duties after birth of child

2012-2013 Adjunct Faculty, School of Biology, Georgia Institute of Technology

2008-2012 Assistant Professor, School of Biology, Georgia Institute of Technology  

- 2011: One semester of modified duties after birth of child

2006-2007 Postdoctoral Fellow, University of Wisconsin-Madison (Mentor: Anthony Ives)

**Teaching Experience:**

**At Michigan:**

Fall 2022	Bio 171: Introductory Biology: Ecology & Evolution - co-taught with Dr. Marjorie Weber	~650 students
Fall 2021	Bio 171: Introductory Biology: Ecology & Evolution	655 students
Fall 2020	Bio 171: Introductory Biology: Ecology & Evolution	568 students
Fall 2019	Bio 171: Introductory Biology: Ecology & Evolution	610 students
Fall 2017	Bio 171: Introductory Biology: Ecology & Evolution - co-taught with Dr. Patricia Wittkopp	540 students
Winter 2017	Bio 800: Seminar: Theory of Ecological Communities	4 students
Fall 2015	Bio 171: Introductory Biology: Ecology & Evolution	524 students

	- co-taught with Dr. Patricia Wittkopp	
Fall 2014	Bio 171: Introductory Biology: Ecology & Evolution	592 students
	- co-taught with Dr. Patricia Wittkopp	
Winter 2014	BIO 120: First Year Seminar: Ecological and Evolutionary Medicine (new course designed by Duffy)	20 students
Fall 2012	BIO 171: Introductory Biology: Ecology & Evolution	208 students

**At Georgia Tech:**

Spring 2012	BIOL 4450: Senior Seminar	14 students
Fall 2011	BIOL 4803/8803: Special Topics: Ecology and Evolution of Infectious Diseases (new course designed by Duffy)	25 students
Fall 2010	BIOL 2335: General Ecology	82 students
Spring 2010	BIOL 8802 Special Topics: Graduate Seminar in Ecology and Evolution (new course designed by Duffy)	6 students
Spring 2009	BIOL 4803/8803 Special Topics: Population and Evolutionary Ecology (new course designed by Duffy)	17 students
Fall 2008	BIOL 2335 General Ecology (co-taught with Dr. Lin Jiang)	94 students

**Honors, Awards, and Recognition:**

2019	Fellow, American Association for the Advancement of Science
2019	Henry Russel Award, University of Michigan (given to early-mid career faculty who “have demonstrated an extraordinary record of accomplishment in scholarly research and/or creativity, as well as an excellent record of contributions as a teacher”)
2018-2019	Academic Innovation Sabbatical Fellow and Faculty Innovator-in-Residence
2018	John Dewey Award, University of Michigan (for commitment to undergraduate education)
2017	President’s Award for Public Impact, University of Michigan (inaugural award, given to two faculty members at the University)
2017	Speaker on main stage, March for Science, Washington DC
2017	American Association for the Advancement of Science (AAAS) Leshner Leadership Institute Public Engagement Fellow
2017	Association for the Sciences of Limnology and Oceanography (ASLO) Yentsch-Schindler Early Career Award
2013	Ecological Society of America Early Career Fellow
2012	Presidential Early Career Award for Scientists and Engineers (PECASE)
2011	National Science Foundation (NSF) CAREER award
2010	George Mercer Award from the Ecological Society of America, given annually to a researcher under 40 for an outstanding ecological research paper
2010	Georgia Tech Faculty Award for Academic Outreach
2006	National Science Foundation Postdoctoral Fellowship in Biological Informatics
2006	Honorable Mention, Buell Award for the outstanding student oral presentation, Ecological Society of America
2006	Ecological Society of America Aquatic Ecology Section Best Talk Award
2005	P.E.O. Scholar Award
2005	Carolyn E. Conway Endowed Scholar Award, P.E.O. Sisterhood

- 2005 Michigan State University EEBB Student Speaker Award  
 2005 Michigan State University Ecology, Evolutionary Biology and Behavior Program Fellowship  
 2003 EPA STAR Graduate Fellowship (Awarded but did not accept)  
 2002-2006 National Science Foundation Graduate Research Fellowship  
 2001-2002 National Science Foundation Research Training Grant Fellowship, Michigan State University  
 2000-2004 Michigan State University Distinguished Fellowship  
 2000 Michigan State University College of Natural Sciences Recruiting Fellowship  
 1999 Howard Hughes Research Fellowship, Cornell University

### **Publications:**

**ResearcherID (ISI):** <http://www.researcherid.com/rid/E-6867-2016>

**Google Scholar Profile:** <http://scholar.google.com/citations?user=JBNzgnMAAAAJ>

**ORCID:** 0000-0002-8142-0802

### **Notes on Authorship:**

Duffy Lab graduate students/postdocs/technicians are indicated *in italics*

Duffy Lab undergrads are indicated by underlining

\* indicates Duffy or Duffy Lab member corresponding author

Publications from my lab use the first and last author positions as positions of emphasis

### **Peer-reviewed:**

A) Published or in press

92. *McLean, K.D.* \*, *C.D. Gowler*, *M.K. Dziuba*, *H. Zamani*, S.R. Hall, and **M.A. Duffy**. 2022. Sexual recombination and temporal gene flow maintain host resistance and genetic diversity in a population of cyclical parthenogens. *Evolutionary Ecology*, in press.
91. *Gowler, C.D.*, *H. Essington*, *B. O'Brien*, *C.L. Shaw*, *R.W. Bilich*, *P.A. Clay*, and **M.A. Duffy\***. 2022. Virulence evolution during a naturally occurring parasite outbreak. *Evolutionary Ecology*, in press. doi: [10.1007/s10682-022-10169-6](https://doi.org/10.1007/s10682-022-10169-6)
90. Elderd, B., N. Mideo, and **M.A. Duffy**. 2022. Looking across scales in disease ecology and evolution. *American Naturalist*, 199(1):51-58. <https://doi.org/10.1086/717176>
89. *Penczykowski, R.M.* \*, M. Shocket, J.H. Ochs, *B.C.P. Lemanski*, *H. Sundar*, **M.A. Duffy**, and S.R. Hall. 2022. Virulent disease epidemics can increase host density by depressing foraging of hosts. *American Naturalist*, 199(1):75-90. <https://doi.org/10.1086/717175>
88. *Wale, N.* \*, Fuller, R.C., Johnsen, S., *Turrill, M.T.*, and **M.A. Duffy**. 2021. The visual ecology of selective predation: Are unhealthy hosts less stealthy hosts? *Ecology and Evolution* 11:18591-18603. <http://doi.org/10.1002/ece3.8464>
87. *Rogalski, M.A.* \*, T. Stewart Merrill, *C.D. Gowler*, C.E. Cáceres, and **M.A. Duffy**. 2021. Context dependent host-symbiont interactions: shifts along the parasitism-mutualism continuum. *American Naturalist*, 198(5):563-575. <https://www.journals.uchicago.edu/doi/abs/10.1086/716635>
86. *Lopez, L.K.* and **M.A. Duffy\***. 2021. Mechanisms by which predators mediate host-parasite interactions in aquatic systems. *Trends in Parasitology*, 37(10):890-906. <https://doi.org/10.1016/j.pt.2021.06.006>
85. *Gowler, C.G.*, *M.A. Rogalski*, *C.L. Shaw*, *K.K. Hunsberger*, and **M.A. Duffy\***. 2021. Density, parasitism, and sexual reproduction are strongly correlated in lake *Daphnia* populations.

- Ecology and Evolution*, 11:10446-10456. <https://doi.org/10.1002/ece3.7847>
84. Shaw, C.L.\* , R. Bilich, B. O'Brien, C.E. Cáceres, S.R. Hall, T.Y. James, and M.A. Duffy. 2021. Genotypic variation in an ecologically important parasite is associated with host species, lake, and spore size. *Parasitology*, 148(11):1303-1312. [doi:10.1017/S0031182021000949](https://doi.org/10.1017/S0031182021000949)
  83. Duffy, M.A.\* 2021. Why we should preach to the climate change choir: the importance of science communication that engages people who already accept climate change. *American Naturalist*, 198(3):433-436. <https://www.journals.uchicago.edu/doi/10.1086/715153>
  82. Clay, P.A.\* , M.H. Cortez, and M.A. Duffy. 2021. Dose relationships can exacerbate, mute or reverse the impact of heterospecific host density on infection prevalence. *Ecology*, 102(8):e03422. <https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/ecy.3422>
  81. Duffy, M.A.\* , C. Garcia-Robledo, S. Gordon, N.A. Grant, D.A. Green II, A. Kamath, R.M. Penczykowski, M. Rebolleda Gómez, N. Wale, and L. Zaman. 2021. Model systems in ecology, evolution, and behavior: A call for diversity in our model systems and discipline. *American Naturalist*, 198:53-68. <https://www.journals.uchicago.edu/doi/10.1086/714574>
  80. Cortez, M.H. and M.A. Duffy. 2021. The context dependent effects of host competence, competition, and pathogen transmission mode on disease prevalence. *American Naturalist*, 198(2):179-194. <https://www.journals.uchicago.edu/doi/abs/10.1086/715110>
  79. Wale, N.\* and M.A. Duffy. 2021. The use and underuse of model systems in infectious disease ecology and evolutionary biology. *American Naturalist*, 198:69-92. <https://www.journals.uchicago.edu/doi/abs/10.1086/714595>
  78. Cortez, M.H. and M.A. Duffy. 2020. Comparing the indirect effects of predators that share prey with those of pathogens that share hosts. *American Naturalist*, 196(6):E144-E159. DOI: [10.1086/711345](https://doi.org/10.1086/711345)
  77. Shaw, C.L.\* , E. Overholt, C. Williamson, C.E. Cáceres, S.R. Hall, and M.A. Duffy. 2020. Shedding light on environmentally transmitted parasites: Lighter conditions within lakes restrict epidemic size. *Ecology*, 101(11): e03168. DOI: [10.1002/ecy.3168](https://doi.org/10.1002/ecy.3168) (Recipient of the 2021 Frost Award for Excellence in Graduate Research from the ESA Aquatic Ecology section)
  76. Clay, P.A.\* , M.A. Duffy, and V.H.W. Rudolf. 2020. Within-host priority effects and epidemic timing determine disease outbreak severity in coinfecting populations. *Proceedings of the Royal Society, B*, 287:20200046. DOI: [10.1098/rspb.2020.0046](https://doi.org/10.1098/rspb.2020.0046)
  75. Rogalski, M.A.\* and M.A. Duffy. 2020. Local adaptation of a parasite to solar radiation impacts disease transmission potential, spore yield, and host fecundity. *Evolution*, 74(8):1856-1864. DOI:[10.1111/evo.13940](https://doi.org/10.1111/evo.13940)
  74. Overholt, E.P., M.A. Duffy, M.P. Meeks, T.H. Leach, and C.E. Williamson. 2020. Light exposure decreases infectivity of the *Daphnia* parasite *Pasteuria ramosa*. *Journal of Plankton Research*, 42(1):41-44. DOI: [10.1093/plankt/fbz070](https://doi.org/10.1093/plankt/fbz070)
  73. McLean, K.D.\* and M.A. Duffy. 2020. Ecological context influences evolution in host-parasite interactions: insights from the *Daphnia*-parasite model system. Chapter 21, pages 289-307 in *Evolution in Action: Past, Present and Future* (eds: Banzhaf W. et al.) [10.1007/978-3-030-39831-6\\_21](https://doi.org/10.1007/978-3-030-39831-6_21)
  72. Fox, C.W., M.A. Duffy, D.J. Fairbairn, and J.A. Meyer. 2019. Gender diversity of editorial boards and gender differences in the peer review process at six journals of ecology and

- evolution. *Ecology & Evolution*, 9:13636-13649. DOI: [10.1002/ece3.5794](https://doi.org/10.1002/ece3.5794)
71. **Duffy, M.A.\***, S.J. Cheng, and J.W. Hammond. 2019. Preaching to the choir or composing new verses? Toward a writerly climate literacy in introductory undergraduate biology. *Ecology & Evolution*, 9:12360-12373. DOI: [10.1002/ece3.5736](https://doi.org/10.1002/ece3.5736)
70. **Duffy, M.A.\***, C.E. Cáceres, and S.R. Hall. 2019. Healthy herds or predator spreaders? Insights from the plankton into how predators suppress and spread disease. Chapter 16, pages 458-479 in *Wildlife Disease Ecology: Linking theory to data and application* (eds: Ken Wilson, Andy Fenton, and Dan Tompkins, Cambridge University Press) DOI: [10.1017/9781316479964.016](https://doi.org/10.1017/9781316479964.016)
69. **Duffy, M.A.\***, C.A. Thanhouser, and H.A. Derry. 2019. A lack of evidence for six times more anxiety and depression in US graduate students than in the general population. *Nature Biotechnology* doi: [10.1038/s41587-019-0179-y](https://doi.org/10.1038/s41587-019-0179-y)
- this is a peer-reviewed commentary on an earlier publication in *Nature Biotechnology*
68. Shocket, M.S., A. Magnante, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2019. Can hot temperatures limit disease transmission? A test of mechanisms in a zooplankton–fungus system. *Functional Ecology*, 33(10):2017-2029.
67. Emery, N., A. Hund, R. Burks, **M.A. Duffy**, C. Scoffoni, and A. Swei. 2019. Students as ecologists: Strategies for successful mentorship of undergraduate researchers. *Ecology and Evolution*, 9:4316-4326. [10.1002/ece3.5090](https://doi.org/10.1002/ece3.5090)
66. **Sánchez, K.F.\***, **N. Huntley**, **M.A. Duffy**, and M.D. Hunter. 2019. Toxins or medicines? Phytoplankton diets mediate host and parasite fitness in a freshwater system. *Proceedings of the Royal Society, B*, 286:20182231. DOI: [10.1098/rspb.2018.2231](https://doi.org/10.1098/rspb.2018.2231)
65. **Duffy, M.A.\*** and **K.K. Hunsberger**. 2019. Infectivity is influenced by parasite spore age and exposure to freezing: do shallow waters provide *Daphnia* a refuge from some parasites? *Journal of Plankton Research*, 41(1):12-16. doi: [10.1093/plankt/fby046](https://doi.org/10.1093/plankt/fby046) (cover image)
64. Clay, P.A., M.H. Cortez, **M.A. Duffy**, and V.H.W. Rudolf. 2019. Priority effects within coinfecting hosts can drive unexpected population-scale patterns of parasite prevalence. *Oikos*, 128(4):571-583. doi: [10.1111/oik.05937](https://doi.org/10.1111/oik.05937)
63. **Wale, N.\***, **M.L. Turrill**, and **M.A. Duffy**. 2019. A colorful killer: *Daphnia* infected with the bacterium *Spirobacillus cienkowskii* exhibit unexpected color variation. *Ecology*, 100(3):e02562. <https://doi.org/10.1002/ecy.2562>
62. Clay, P.A., **K.L. Dhir**, V.H.W. Rudolf, and **M.A. Duffy**. 2019. Within host priority effects systematically alter pathogen coexistence. *American Naturalist*, 193(2):187-199. <https://doi.org/10.1086/701126>
61. Bresciani, L., L.N. Lemos, **N. Wale**, J.Y. Lin, A.T. Strauss, **M.A. Duffy**, and J.L.M. Rodrigues. 2018. Draft genome sequence of “*Candidatus Spirobacillus cienkowskii*,” a pathogen of freshwater *Daphnia* species, reconstructed from hemolymph metagenomic reads. *Microbiology Resource Announcements*, 7(22):e01175-18.
60. Shocket, M.S., D. Vergara, A.J. Sickbert, J.M. Walsman, J.L. Hite, A.T. Strauss, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2018. Parasite rearing and infection temperatures jointly influence disease transmission and shape seasonality of epidemics. *Ecology*, 99(9):1975-1987.
59. Strauss, A.T., A.M. Bowling, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2018. Linking host traits, interactions with competitors and disease: Mechanistic foundations for disease dilution. *Functional Ecology*, 32(5):1271-1279. (recipient of the 2018 Haldane Prize)

- for Early Career Research)
58. Shocket, M.S., A.T. Strauss, J.L. Hite, M. Šlijvar, D.J. Civitello, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2018. Temperature drives epidemics in a zooplankton-fungus disease system: A trait-driven approach points to transmission via host foraging. *American Naturalist*, 191(4): 435-451. (recipient of the 2018 American Naturalist Student Paper Award)
  57. Strauss, A.T., J.L. Hite, M.S. Shocket, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2017. Rapid evolution rescues hosts from competition and disease but – despite a dilution effect – increases the density of infected hosts. *Proceedings of the Royal Society, B*, 284:20171970.
  56. Saunders, Manu E., **M.A. Duffy**, S.B. Heard, M. Kosmala, S.R. Leather, T. McGlynn, J. Ollerton, and A.E. Parachnowitsch. 2017. Bringing ecology blogs into the scientific fold: quantifying reach and impact of science-community blogs. *Royal Society Open Science*, 4:170957.
  55. **Duffy, M.A.\*** 2017. Last and corresponding authorship practices in ecology. *Ecology and Evolution*, 7:8876-8887. doi: 10.1002/ece3.3435 (one of the top 20 downloads for the journal between January 2017 & December 2018)
  54. Hite, J.L., *R.M. Penczykowski*, M.S. Shocket, K. Griebel, A.T. Strauss, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2017. Allocation, not male resistance, increases male frequency during epidemics: A case study in facultatively sexual hosts. *Ecology*, 98(11): 2773-2783.
  53. *Auld, S.K.J.R.\**, *C.L. Searle*, and **M.A. Duffy**. 2017. Parasite transmission in a natural multihost-multiparasite community. *Philosophical Transactions of the Royal Society, B*, 372:20160097.
  52. *Rogalski, M.A.\**, *C.D. Gowler*, *C.L. Shaw*, R.A. Hufbauer, and **M.A. Duffy**. 2017. Human drivers of ecological and evolutionary dynamics in emerging and disappearing infectious disease systems. *Philosophical Transactions of the Royal Society, B*, 372:20160043.
  51. Strauss, A.T., M.S. Shocket, D.J. Civitello, J.L. Hite, *R.M. Penczykowski*, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2016. Habitat, predators, and hosts regulate disease in *Daphnia* through direct and indirect pathways. *Ecological Monographs*, 86:393-411.
  50. *Searle, C.L.\**, M.H. Cortez, *K.K. Hunsberger*, *D.C. Grippi*, *I.A. Oleksy*, *C.L. Shaw*, *S.B. de la Serna*, *C.L. Lash*, *K.L. Dhir*, and **M.A. Duffy**. 2016. Population density, not host competence, drives patterns of disease in an invaded community. *American Naturalist*, 188(5):554-566.
  49. *Searle, C.L.\**, *C.L. Shaw*, *K.K. Hunsberger*, *M. Prado*, and **M.A. Duffy**. 2016. Salinization decreases population densities of the freshwater crustacean, *Daphnia dentifera*. *Hydrobiologia*, 770:165-172.
  48. Hite, J.L., *R.M. Penczykowski*, M.S. Shocket, A.T. Strauss, P.A. Orlando, **M.A. Duffy**, C.E. Cáceres, and S.R. Hall. 2016. Parasites destabilize host populations by shifting stage-structured interactions. *Ecology*, 97:439-449.
  47. **Duffy, M.A.\***, T.Y. James, and *A. Longworth*. 2015. Ecology, virulence, and phylogeny of *Blastulidium paedophthorum*, a widespread brood parasite of *Daphnia* spp. *Applied and Environmental Microbiology*, 81(16):5486-5496. (cover article)
  46. *Searle, C.L.\**, *J. Housley Ochs*, C.E. Cáceres, S. Chiang, N.M. Gerardo, S.R. Hall, and **M.A. Duffy**. 2015. Plasticity, not genetic variation, drives infection success of a fungal parasite. *Parasitology*, 142:839-848.
  45. Civitello, D.J., A.N. Smith, *R.M. Penczykowski*, M.S. Shocket, **M.A. Duffy**, and S.R. Hall.

2015. Resources, key traits, and the size of fungal epidemics in *Daphnia* populations. *Journal of Animal Ecology*, 84:1010-1017.
44. Lively, C.M., J.C. de Roode, **M.A. Duffy**, A.L. Graham, and B. Koskella. 2014. Interesting open questions in disease ecology and evolution. *American Naturalist*, 18:S1-S8.
43. Auld, S.K.J.R. \*, S.R. Hall, J.H. Ochs, M. Sebastian, and **M.A. Duffy**. 2014. Predators and patterns of within-host growth can mediate both among-host competition and the evolution of transmission potential of parasites. *American Naturalist*, 184:S77-S90.
42. Penczykowski, R.M. \*, B.C.P. Lemanski, R.D. Sieg, S.R. Hall, J.H. Ochs, J. Kubanek, and **M.A. Duffy**. 2014. Poor resource quality lowers transmission potential by changing foraging behavior. *Functional Ecology*, 28(5): 1245-1255.
41. Cáceres, C.E., A.J. Tessier, **M.A. Duffy**, and S.R. Hall. 2014. Disease in freshwater zooplankton: what have we learned and where are we going? *Journal of Plankton Research*, 36(2): 326-333.
40. Penczykowski, R.M. \*, S.R. Hall, D.J. Civitello, and **M.A. Duffy**. 2014. Habitat structure and ecological drivers of disease. *Limnology and Oceanography*, 59(2):340-348.
39. Searle, C.L. \*, J.R. Mendelson III, L.E. Green, and **M.A. Duffy**. 2013. *Daphnia* predation on the amphibian chytrid fungus and its impacts on disease risk in tadpoles. *Ecology and Evolution*, 3(12):4129-4138. (cover article)
38. Auld, S.K.J.R., R.M. Penczykowski, J.H. Ochs, D.C. Grippi, S.R. Hall, and **M.A. Duffy**. 2013. Variation in costs of parasite resistance among natural host populations. *Journal of Evolutionary Biology*, 26(11):2479-2486.
37. Bertram, C.R., M. Pinkowski, S.R. Hall, **M.A. Duffy**, and C.E. Cáceres. 2013. Trait-mediated indirect effects, predators, and disease: test of a size-based model. *Oecologia*, 173(3):1023-1032.
36. Civitello, D.J., S. Pearsall, **M.A. Duffy**, and S.R. Hall. 2013. Parasite consumption and host interference can inhibit disease spread in dense populations. *Ecology Letters*, 16(5):626-634.
35. Civitello, D.J., R.M. Penczykowski, J.L. Hite, **M.A. Duffy**, and S.R. Hall. 2013. Potassium stimulates fungal epidemics in a freshwater invertebrate. *Ecology*, 94:380-388.
34. Auld, S.K.J.R. \*, S.R. Hall, and **M.A. Duffy**. 2012. Epidemiology of a *Daphnia*-multiparasite system and its implications for the Red Queen. *PLoS ONE*, 7(6): e39564.
33. **Duffy, M.A. \***, J. Housley Ochs, R.M. Penczykowski, D.J. Civitello, C.A. Klausmeier, and S.R. Hall. 2012. Ecological context influences epidemic size and parasite-mediated selection. *Science*, 335:1636-1638. (cover article)
32. Hall, S.R., C.R. Becker, **M.A. Duffy**, and C.E. Cáceres. 2012. A power-efficiency tradeoff in resource use alters epidemiological relationships. *Ecology*, 93:645-656.
31. Overholt, E.P., S.R. Hall, C.E. Williamson, C.E. Meikle, **M.A. Duffy**, and C.E. Cáceres. 2012. Solar radiation decreases parasitism in *Daphnia*. *Ecology Letters*, 15(1): 47-54.
30. Prior, N.H., C.N. Washington, J.M. Housley, S.R. Hall, **M.A. Duffy**, and C.E. Cáceres. 2011. Maternal effects in a planktonic host-parasite system. *Evolutionary Ecology Research*, 13:401-413.
29. **Duffy, M.A. \***, J.M. Housley, R.M. Penczykowski, C.E. Cáceres, S.R. Hall. 2011. Unhealthy herds: indirect effects of predators enhance two drivers of disease spread. *Functional Ecology*, 25(5):945-953. (article focus of Spotlight by Welch & Harwood: pages 943-944)

28. Thomas, S.H., C. Bertram, K. van Rensburg, C.E. Cáceres, and **M.A. Duffy\***. 2011. Spatiotemporal dynamics of free-living stages of a bacterial parasite of zooplankton. *Aquatic Microbial Ecology*, 63(3):265-272.
27. Hall, S.R., C.R. Becker, **M.A. Duffy**, C.E. Cáceres. 2011. Epidemic size determines population-level effects of parasites. *Oecologia*, 166:833-842.
26. Kestrup, Å.M., S.H. Thomas, K. van Rensburg, A. Ricciardi, and **M.A. Duffy\***. 2011. Differential infection of exotic and native freshwater amphipods by a parasitic water mold in the St. Lawrence River. *Biological Invasions*, 13(3):769-779.
25. Thomas, S.H., J.M. Housley, A.N. Reynolds, R.M. Penczykowski, N. Hardegre, K.H. Kenline, S. Schmidt, and **M.A. Duffy\***. 2011. The ecology and phylogeny of oomycete infections in *Asplanchna* rotifers. *Freshwater Biology*, 56:384-394. (cover article)
24. Penczykowski, R.M., Samantha E. Forde and **M.A. Duffy\***. 2011. Rapid evolution as a constraint on emerging infectious diseases. *Freshwater Biology*, 56:689-704. (cover article)
23. Hall, S.R., C.R. Becker, **M.A. Duffy**, and C.E. Cáceres. 2010. Variation in resource acquisition and use among hosts can create key epidemiological tradeoffs. *American Naturalist*, 176:557-565.
22. **Duffy, M.A.\***, C.E. Cáceres, S.R. Hall, A.J. Tessier and A.R. Ives. 2010. Temporal, spatial and between-host comparisons of patterns of parasitism in lake zooplankton. *Ecology*, 91(11):3322-3331.
21. Hall, S.R., R. Smyth, C.R. Becker, **M.A. Duffy**, C.M. Knight, S. MacIntyre, A.J. Tessier, and C.E. Cáceres. 2010. Why are some lakes sicker? Disease ecology, habitat structure and the plankton. *BioScience*, 60(5):363-375.
20. **Duffy, M.A.\*** 2010. Ecological consequences of intraspecific variation in lake *Daphnia*. *Freshwater Biology*, 55: 995-1004. (cover article)
19. **Duffy, M.A.\*** and S.E. Forde. 2009. Ecological feedbacks and the evolution of resistance. *Journal of Animal Ecology*, 78:1106-1112.
18. **Duffy, M.A.\***, S.R. Hall, C.E. Cáceres and A.R. Ives. 2009. Rapid evolution, seasonality, and the termination of parasite epidemics. *Ecology*, 90(6):1441-1448.
17. **Duffy, M.A.\*** 2009. Staying alive: the post-consumption fate of parasite spores and its implications for disease dynamics. *Limnology and Oceanography*, 54(3):770-773.
16. Hall, S.R., C.M. Knight, C.R. Becker, **M.A. Duffy**, A.J. Tessier and C.E. Cáceres. 2009. Quality matters: resource quality for hosts and the timing of epidemics. *Ecology Letters*, 12(2):118-128.
15. Hall, S.R., C.R. Becker, J.L. Simonis, **M.A. Duffy**, A.J. Tessier, and C.E. Cáceres. 2009. Friendly competition: evidence for a dilution effect in a planktonic host-parasite system. *Ecology*, 90(3):791-801.
14. **Duffy, M.A.\***, C.E. Brassil, S.R. Hall, A.J. Tessier, C.E. Cáceres, and J.K. Conner. 2008. Parasite-mediated disruptive selection in a natural *Daphnia* population. *BMC Evolutionary Biology*, 8:80.
13. Cáceres, C.E., A.J. Tessier, A. Andreou, **M.A. Duffy**. 2008. Stoichiometric relationships in vernal pond plankton communities. *Freshwater Biology*, 53(7):1291-1302.
12. **Duffy, M.A.\*** and S.R. Hall. 2008. Selective predation and rapid evolution can jointly dampen effects of virulent parasites on *Daphnia* populations. *American Naturalist*, 171(4): 499-510. (This paper received the Mercer Award from the Ecological Society of America.)



11. Rodrigues, J.L.M., **M.A. Duffy**, A.J. Tessier, D. Ebert, L. Mouton and T.M. Schmidt. 2008. Phylogenetic characterization and prevalence of *Spirobacillus cienkowskii*: a red-pigmented, spiral-shaped bacterial pathogen of freshwater *Daphnia* species. *Applied and Environmental Microbiology*, 74(5):1575-1582. (cover article)
10. **Duffy, M.A.\*** 2007. Selective predation, parasitism, and trophic cascades in a bluegill-*Daphnia*-parasite system. *Oecologia* 153(2):453-460.
9. Hall, S.R., L. Sivars-Becker, C. Becker, **M.A. Duffy**, A.J. Tessier and C.E. Cáceres. 2007. Eating yourself sick: transmission of disease as a function of foraging ecology. *Ecology Letters* 10(3):207-218.
8. **Duffy, M.A.\*** and L. Sivars-Becker. 2007. Rapid evolution and ecological host-parasite dynamics. *Ecology Letters* 10(1):44-53. (cover article; reviewed by Faculty of 1000)
7. Hall, S.R., A.J. Tessier, **M.A. Duffy**, M. Huebner and C.E. Cáceres. 2006. Warmer does not have to mean sicker: Temperature and predators can jointly drive timing of epidemics. *Ecology* 87(7):1684-1695.
6. Cáceres, C.E., S.R. Hall, **M.A. Duffy**, A.J. Tessier, C. Helmle and S. MacIntyre. 2006. Physical structure of lakes constrains epidemics in *Daphnia* populations. *Ecology* 87(6):1438-1444.
5. Hall, S.R., **M.A. Duffy**, A.J. Tessier and C.E. Cáceres. 2005. Spatial heterogeneity of daphniid parasitism in lakes. *Oecologia* 143(4):635-644.
4. **Duffy, M.A.\***, S.R. Hall, A.J. Tessier and M. Huebner. 2005. Selective predators and their parasitized prey: Are epidemics in zooplankton under top-down control? *Limnology and Oceanography* 50:412-420.
3. Hall, S.R., **M.A. Duffy** and C.E. Cáceres. 2005. Selective predation and productivity jointly drive complex behavior in host-parasite systems. *American Naturalist* 165:70-81.
2. **Duffy, M.A.\***, A.J. Tessier and M.A. Kosnik. 2004. Testing the ecological relevance of *Daphnia* species designations. *Freshwater Biology* 49(1):55-64.
1. **Duffy, M.A.**, L.J. Perry, C.M. Kearns, L.J. Weider, and N.G. Hairston, Jr. 2000. Paleogenetic evidence for a past invasion of Onondaga Lake, New York, by exotic *Daphnia curvirostris* using mtDNA from dormant eggs. *Limnology and Oceanography* 45(6):1409-1414.

**Non-peer-reviewed:**

4. **Duffy, M.A.**, N.C. Tronson, and D. Eisenberg. 2021. Supporting mental health (and productivity!) within labs. *Neuron*, 109(20):3206-3210. (Invited Commentary) <https://doi.org/10.1016/j.neuron.2021.08.021>
3. Selin, N.E., M.A. Kenney, A.J. Jefferson, J.S. Dukes, T.M. Hill, L. Schmitt Olabisi, and **M.A. Duffy**. 2018. Call for a new AAAS harassment policy. *Science* 361:984-984.
2. Calisi, R.M. and a Working Group of Mothers in Science (45 people, including **M.A. Duffy**). 2018. How to tackle the childcare-conference conundrum. *Proceedings of the National Academy of Sciences* 115(12):2845-2849
1. **Duffy, M.A.** 2014. It helps to be well-connected. *Science*, 344:1229-1230. (Invited Perspective)

**Research grants:**

**A) Administered**

**Currently funded:**

- 2021-2023 University of Michigan Large Course Initiative (\$2,000)
- 2020-2025 Gordon and Betty Moore Foundation. “Investigator Award in Aquatic Symbiosis.” (Duffy sole PI; \$2,025,000)
- 2018-2023 National Science Foundation. “Collaborative Research: Development and empirical tests of a mechanistic multi-host, multi- pathogen theory.” (Lead PI: Michael Cortez, Utah State University; Duffy UMich PI; Total award: \$814,288; Duffy budget: \$610,889)

Previous funding:

- 2017-2022 National Science Foundation. “Collaborative Research: How do predators spread disease? Tests of five ecological and eco-evolutionary mechanisms with disease in the plankton.” (Lead PI: Spencer Hall, Indiana University; Duffy UMich PI; Illinois PI: Carla Cáceres, University of Illinois; Total award: \$1,255,000; Duffy portion: \$424,999)
- 2019-2020 University of Michigan, Academic Innovation Fund. “Setting the Stage for Wellbook: Understanding PhD students' unique wellness coaching needs” (Duffy PI, \$10,505, plus in kind support from Academic Innovation’s Behavioral Science Team)
- 2016-2019 National Science Foundation. “Dissertation Research: Do interactions between ultraviolet radiation and dissolved organic carbon modulate disease in aquatic systems?” (PI; Doctoral Dissertation Improvement Grant for graduate student Clara Shaw; Total award: \$20,150)
- 2014-2018 National Science Foundation. “Collaborative Research: Friendly Competition: infusing ecology and evolution at the frontiers of the dilution effect in disease ecology.” (Lead PI: Spencer Hall, Indiana University; Duffy UMich PI; other PIs: Carla Cáceres and Zoi Rapti, University of Illinois; Total award: \$924,269; Duffy portion: \$224,080)
- 2011-2017 National Science Foundation. “PECASE/CAREER: Rapid host-parasite evolution and its effects on host invasions: a resurrection ecology study” (Duffy sole PI; \$828,538 including 3 REU supplements and 2 career-life balance supplements)
- 2009-2013 National Science Foundation. “Collaborative Research: Joint influences of host genetics and community context on eco-evolutionary host-parasite dynamics.” (Duffy PI; collaborative with Spencer Hall, Indiana University; Total award: \$621,000 including 3 REU supplements; Duffy portion officially transferred to Michael Goodisman prior to Duffy leaving Georgia Tech)
- 2008-2010 National Science Foundation. “Research Starter Grant: The role of competition among parasites in driving patterns of disease” (\$59,625 including RET supplement; Duffy sole PI)
- 2006-2007 National Science Foundation. Postdoctoral Research Fellowship in Biological Informatics. “Spatiotemporal scaling of the ecological and evolutionary dynamics of host-parasite interactions” (\$120,000)
- 2005-2007 National Science Foundation Doctoral Dissertation Improvement Grant. “Selective predators and the dynamics of host-parasite interactions” (\$10,699)

## Media and Public Engagement

### Talks to public audiences:

2017: University of Michigan Museum of Natural History Science Café; topic: “What Cost, Basic Research”

2017: March for Science, Washington DC (speaker on main stage to >30,000 people on the National Mall [official March for Science attendance estimate: 100,000 people]; [video of speech](#); [text of speech](#))

### Writing for general audiences:

5. **Duffy, M.A.**, C. Thanhouser, and D. Eisenberg. What colleges must do to promote mental health for graduate students. *The Conversation*. Publication date: August 3, 2018. <https://theconversation.com/what-colleges-must-do-to-promote-mental-health-for-graduate-students-100922>  
(republished by [Salon](#), [San Francisco Chronicle](#), [Seattle Post Intelligencer](#), and more than a dozen other publications)
4. **Duffy, M.A.** It’s a problem for Michigan lakes, too. MLive print edition in Ann Arbor, Bay City, Flint, Grand Rapids, Jackson, Kalamazoo, Muskegon, and Saginaw. Publication date: March 4, 2018. Guest column appeared opposite “Salted: Winter runoff is taking the fresh out of nation’s waterways”.
3. **Duffy, M.A.** President Trump’s proposed budget will stunt American scientific innovation. *Medium*. Publication date: June 6, 2017. <https://medium.com/@duffymeg/president-trumps-proposed-budget-will-stunt-american-scientific-innovation-65c191bc73f9>
2. **Duffy, M.A.** How I prepared for the biggest talk of my career: Thoughts on speaking at the March for Science in DC. *LearnSpeakAct*. Publication date: May 5, 2017. <https://sites.lsa.umich.edu/learn-speak-act/2017/05/05/how-i-prepared-for-the-biggest-talk-of-my-career-thoughts-on-speaking-at-the-march-for-science-in-dc/>
1. **Duffy, M.A.** This polluted lake shows why we are all stakeholders when it comes to clean water: when environmental protection gets short shrift, the price we pay can be staggering. *Ensi*a. Publication date: March 29, 2017. <https://ensia.com/voices/clean-water-environment-protection/>  
- *Ensi*a is an independent, non-profit magazine focusing on environmental issues

### Writing for other scientists or academics:

2020: [Centering Equity in Student Mental Health Task Forces: Lessons Learned From the University of Michigan](#), by Sara Abelson, Janelle Goodwill, and **Meghan A. Duffy**. Commissioned by the Steve Fund, published by the American Council on Education on *Higher Ed Today*; target audience: upper university administrators  
\* 5<sup>th</sup> most popular *Higher Ed Today* post of 2020

2012-present: Writer for [Dynamic Ecology](#), distributed online; site has received over 4.4 million page views; some of Duffy’s writings that originally appeared at *Dynamic Ecology* have been featured on other websites, including [Times Higher Education](#), [ASBMB Today](#), and [SAS Confidential](#). 15 of Duffy’s posts at *Dynamic Ecology* have received over 10,000 page views.

### Media interviews (aimed at the general public):

- 2020: Quoted in Washington Post Magazine article, “The environmental burden of Generation Z”: <https://www.washingtonpost.com/magazine/2020/02/03/eco-anxiety-is-overwhelming-kids-wheres-line-between-education-alarmism/?arc404=true>
- 2019: Featured in PBS Newshour article and video, “How these water fleas could save your water quality – and your life”: <https://www.pbs.org/newshour/science/how-these-water-fleas-could-save-your-water-quality-and-your-life>
- 2018: Interview with PBS Newshour for article, “Hundreds say #TimesUp for world’s largest scientific organization to address sexual harassment”:  
<https://www.pbs.org/newshour/science/hundreds-say-timesup-for-worlds-largest-scientific-organization-to-address-sexual-harassment>
- 2018: Interview with Utah Public Radio: <http://upr.org/post/research-water-fleas-yields-possible-anti-fungal-drug>
- 2017: Interview on Michigan Radio’s Stateside program: <http://michiganradio.org/post/scientist-warns-trump-budget-cuts-basic-research-could-devastate-american-innovation>
- 2017: Appeared (along with Senator Whitehouse, Michael Mann, and others) in a video made by 314 Action, calling on President Trump to appoint a science advisor.  
<https://secure.314action.org/page/s/give-trump-science-advice>
- 2016: Interview with Washington Post for article, “What will President Trump mean for science?”: <https://www.washingtonpost.com/news/speaking-of-science/wp/2016/11/09/what-will-president-trump-mean-for-science/>

Media interviews (related to academia):

- 2017: Interview with Nature for Career Feature, “Top ten tips to kick-start your career in 2018”:  
<https://www.nature.com/articles/d41586-017-08663-x>
- 2017: Interview with Nature Careers for article, “Workplace habits: Full-time is full enough”:  
<https://www.nature.com/naturejobs/science/articles/10.1038/nj7656-175a>
- 2016: Interview with Science Careers for article, “Breastfeeding while building a career”:  
<http://www.sciencemag.org/careers/2016/02/breastfeeding-while-building-career>
- 2015: Interview with Nature for article, “Scientists offer advice on how best to respond to reviewers” <http://www.nature.com/news/scientists-offer-advice-on-how-best-to-respond-to-reviewers-1.17640>
- 2015: Interview with Nature Jobs for article, “Insider knowledge”:  
<https://www.nature.com/naturejobs/science/articles/10.1038/nj7561-491a>

Work with school groups:

- 2021: Keynote lecturer, FEMMES Winter capstone (gave presentation & led activity for girls in grades 4-6 from Ann Arbor, Detroit, and Ypsilanti)
- 2017-2018: Developed and led activity entitled “Prove It! How to find and use data to answer questions you care about”; this activity reached ~95 scholars in the Wolverine Pathways program each summer, which is a flagship Diversity, Equity, and Inclusion Program at the University of Michigan.
- 2014-2019: FEMMES capstone activity for girls in grades 4-6 from Ann Arbor, Detroit, and Ypsilanti (1-2 capstone events per year)
- 2008-2011: Outreach presentations with campers at Piedmont Park (1-3 per summer)

Other:

- 2020: Featured in [ECoach Educator Spotlight](#), produced by UMichigan's Center for Academic Innovation
- 2019: Interviewed for [LSA Explores: Impact](#) video
- 2019: University of Michigan representative to the Coalition for National Science Funding, Washington, DC; met with Hill staffers and presented poster at CNSF exhibition
- 2017: Featured scientist on [episode 3](#) of Season 1 of the How to Science podcast, hosted by Dr. Monica Dus
- 2017: Curator of [@realscientists](#) twitter account (>54K followers) for week of 20 August 2017. The week focused on lakes, animal diversity, infectious diseases, teaching, mental health, and many other topics. According to twitter's statistics, this resulted in >3.8 million engagements (and one trending hashtag, [#myworstgrade](#)).
- 2012-present: Twitter account ([@duffy\\_ma](#); 11.3K followers); this allows with regular engagements with the general public as well as other academics

### **Meetings and Symposia:**

#### **A) Invited seminars and conference presentations:**

- 2023: Gordon Research Conference: Writing the Microbial Constitution (was scheduled for 2021, rescheduled for 2023 due to pandemic)
- 2022: Rocky Mountain Biological Laboratory, Douglass Distinguished Lecture
- 2022: University of Wisconsin, Keynote speaker for Ecology Symposium (research seminar and seminar focused on graduate student mental health)
- 2022: University of California-Davis, Animal Behavior Graduate Group (remote seminar)
- 2022: Emory University, Department of Biology (research seminar and seminar focused on graduate student mental health)
- 2021: Michigan Tech, Biological Sciences Department (remote seminar)
- 2021: Women in Aquatic Sciences Networking Event (keynote speaker, virtual due to pandemic)
- 2021: University of Amsterdam, Institute of Biodiversity and Ecosystem Dynamics (originally scheduled for May 2020, given as remote seminar in April 2021 due to pandemic)
- 2021: University of Oklahoma, Biology Department (grad student-invited speaker; originally scheduled for April 2020, given as remote seminar in April 2021 due to pandemic)
- 2020: University of Louisiana at Lafayette (graduate student invited speaker, remote seminar, seminar focused on graduate student mental health)
- 2020: Michigan State University, EEBB Symposium (keynote speaker, scheduled for April 2020, canceled due to pandemic)
- 2020: American Association for the Advancement of Science (February 2020; talk focused on graduate student mental health)
- 2019: Evolution 2019, invited speaker in American Society of Naturalist's Vice Presidential Symposium (organized by Doug Emlen)
- 2019: Biology19, Zurich, Switzerland (sponsored by the Swiss Academy of Natural Sciences), Keynote speaker
- 2019: Northeastern University Marine Science Center (research seminar & brown bag about graduate student mental health)
- 2018: University of Massachusetts-Amherst
- 2018: Swiss Federal Institute of Aquatic Science and Technology (EAWAG)
- 2018: Ecological Society of America, New Orleans
- 2018: University of Michigan BioStation, Olin Sweall Pettingill Lecture in Natural History

2018: Utah State University, Ecology Center (grad student-invited speaker)  
2018: University of Florida, Department of Biology  
2017: Ecological Society of America, Portland, OR  
2017: Front Range Student Ecology Symposium, hosted by Colorado State University, Keynote speaker invited by grad students  
2016: Eastern Michigan University, Department of Biology  
2016: University of Georgia, Odum School of Ecology  
2015: University of Maine, School of Biology and Ecology  
2015: Queen's University, EEB Seminar Series  
2014: Ecological Society of America, Sacramento, CA  
2014: University of Toronto, EEB Colloquium, Plenary Lecture  
2014: Duke University, Program in Ecology  
2014: Oregon State University, Department of Zoology  
2014: Michigan State University, Department of Microbiology and Molecular Genetics (grad student-invited speaker)  
2013: Aquatic Ecology Symposium, Kellogg Biological Station  
2013: Rapid Evolution and Sustainability Workshop at the Mathematical Biosciences Institute (Columbus, OH)  
2013: European Society for Evolutionary Biology Invited Symposium Speaker  
2013: American Society of Naturalists Vice Presidential Symposium  
2013: Western Michigan University, Department of Biological Sciences (grad student-invited speaker)  
2013: University of Texas-Austin, School of Biological Sciences  
2012: University of Alabama, Department of Biological Sciences  
2012: Michigan State University, EEBB Program and Kellogg Biological Station  
2012: Association of Southeastern Biologists, Athens, GA (Talk given by grad student Dylan Grippi)  
2012: University of West Georgia, Department of Biology  
2012: Cornell University, Department of Ecology and Evolutionary Biology  
2011: Ecological Society of America, Austin, TX  
2011: University of Michigan, Department of Ecology and Evolutionary Biology  
2011: Cary Institute for Ecosystem Studies (New York)  
2011: Emory University, Department of Biology  
2010: American Society of Limnology and Oceanography, Sante Fe, NM  
2010: Southeastern Ecology and Evolution Conference, Atlanta, GA (Closing address)  
2010: Oberlin College, Biology Department  
2010: Georgia Tech, Integrative BioSystems Institute  
2009: Miami University (Ohio), Department of Zoology  
2009: McGill University (Montreal), Biology Department  
2009: "100 Years of Limnology at Cornell" Symposium, Cornell University, Ithaca, NY  
2009: Emory University, Population Biology, Ecology and Evolution Seminar  
2009: University of South Carolina, Department of Biological Sciences  
2008: Virginia Tech, Department of Biology  
2008: Auburn University, Department of Fisheries and Allied Aquacultures  
2008: Georgia Tech, Mathematical Biology and Ecology Seminar  
2008: University of Georgia, Ecology of Infectious Disease Seminar

2008: University of Nebraska-Lincoln, School of Biological Sciences  
2007: University of Michigan, Young Scientists' Symposium  
2007: Ohio State University, Department of Evolution, Ecology, and Organismal Biology  
2006: Purdue University, Department of Forestry and Natural Resources  
2006: Georgia Tech, School of Biology  
2006: Rice University, Department of Ecology and Evolutionary Biology  
2005: Michigan State University, Ecology, Evolutionary Biology and Behavior Program  
2004: Jacques Monod Conference "Evolutionary ecology of host-parasite relationships",  
Roscoff, France

B) Contributed research presentations:

# indicates current or former Duffy grad students/postdocs

¶ indicates current or former Duffy undergrad

2019. Sanchez K.F.<sup>#</sup>, **Duffy M.A.** Time spent as a transmission spore decreases infectivity in the parasite *Metschnikowia bicuspidata*. Poster presentation at the British Ecological Society (BES) meeting, Belfast, Northern Ireland, UK.
2019. Gowler, C.D.<sup>#</sup>, B. O'Brien<sup>¶</sup>, H. Essington<sup>¶</sup>, **M.A. Duffy**. Evolution of virulence in natural epidemics. Poster presentation at the Ecology and Evolution of Infectious Diseases (EEID) meeting, Princeton, New Jersey.
2019. Hall, S.R., A. Ramesh, M. Sljivar, J.C. Walsman, **M.A. Duffy**, and C.E. Cáceres. Why do parasites destabilize stable but stabilize unstable consumer-resource dynamics? A perspective from feedback loops and plankton. Oral presentation at the Ecological Society of America annual meeting, Louisville, Kentucky.
2019. Clay, P.A., **M.A. Duffy**, and V.H.W. Rudolf. Within-host priority effects and epidemic timing determine outbreak severity in coinfecting populations. Oral presentation at the Ecological Society of America annual meeting, Louisville, Kentucky.
2019. McLean, K.D.<sup>#</sup>, C. Gowler<sup>#</sup>, and **M.A. Duffy**. How do sex and migration from the past impact the diversity of resistance? Oral presentation at the Evolution 2019 meeting, Providence, Rhode Island.
2018. Cheng, S.J., J.W. Hammond, and **M.A. Duffy**. Climate literacy on the move: Understanding shifts in student perceptions of the causes, impacts, and solutions to climate change. Oral presentation at the American Geophysical Union Fall Meeting, Washington DC.
2018. McLean, K.D., Meng, J., Bilich R., Hunsberger K., **Duffy, M.A.** Implications of within-host parasite interactions for parasite fitness and virulence. Poster presentation at the 16th Ecology and Evolution of Infectious Disease Conference, Glasgow, UK
2018. Cortez, M. and **M.A. Duffy**. The indirect effects that arise between pathogens that share competing hosts: Competitive vs noncompetitive interactions. Oral presentation at the **Ecological Society of America** meeting, New Orleans, LA.
2018. Sljivar, M., C.E. Cáceres, **M.A. Duffy**, and S.R. Hall. Killing the young: Predation on less susceptible stages of hosts increases epidemic size. Oral presentation at the **Ecological Society of America** meeting, New Orleans, LA.
2018. Sánchez, K.F.<sup>#</sup>, N. Huntley<sup>¶</sup>, **M.A. Duffy**, and M.D. Hunter. Toxins or medicines? Algal diets mediate parasitism in a freshwater host-parasite system. Oral presentation at the **Ecological Society of America** meeting, New Orleans, LA.

2018. Zamani, H.<sup>¶</sup>, K.D. McLean<sup>#</sup>, C. Gowler<sup>#</sup>, S.R. Hall, and **M.A. Duffy**. Does sexual recombination slow the evolution of resistance? Poster presentation at the **Ecological Society of America** meeting, New Orleans, LA.
2018. Wale, N.<sup>#</sup>, M. Turrill<sup>¶</sup>, and **M.A. Duffy**. Why does a bacterium blush? The causes & consequences of plastic pigment production in a highly virulent bacterial pathogen. Poster presentation at the **Joint Congress on Evolutionary Biology**, Montpellier, France.
2018. Zamani, H.<sup>¶</sup>, K.D. McLean<sup>#</sup>, C. Gowler<sup>#</sup>, S.R. Hall, and **M.A. Duffy**. Does sexual recombination slow the evolution of resistance? Poster presentation at the **Society for Freshwater Science** meeting, Detroit, MI.
2018. Shaw, C.L.<sup>#</sup>, R. Bilich<sup>¶</sup>, T.Y. James, S.R. Hall, and **M.A. Duffy**. Spore size as a mechanism of population structuring of a generalist parasite. Oral presentation at the **Midwest Population Genetics Meeting**. St. Paul, MN.
2018. McLean<sup>#</sup>, K.D., J. Meng<sup>¶</sup>, R. Bilich<sup>¶</sup>, K. Hunsberger, and **M.A. Duffy**. Implications of within-host parasite interactions for parasite fitness and virulence. Poster presentation at the **Ecology and Evolution of Infectious Diseases (EEID)** meeting, Glasgow, UK.
2018. Clay, P., **M.A. Duffy**, and V. Rudolf. The impact of within-host priority effects on multi-pathogen epidemics. Oral presentation at the **American Society of Naturalists** meeting, Monterey Bay, CA.
2017. Hall, S.R., A.T. Strauss, J.L. Hite, M.S. Shocket, **M.A. Duffy**, and C.E. Cáceres. Ecological doom and evolutionary rescue during epidemics with dilution and host competition: A perspective via interaction strengths, cryptic dynamics, and rapid trait evolution. Oral presentation at the **Ecological Society of America** Annual Meeting, Portland, Oregon.
2017. McLean<sup>#</sup>, K.D., C.D. Gowler<sup>#</sup>, S.R. Hall, and **M.A. Duffy**. How is host diversity maintained despite strong selective pressure from parasites? Poster presentation at the **Ecological Society of America** Annual Meeting, Portland, Oregon.
2017. Clay, P., K. Dhir<sup>¶</sup>, V. Rudolf, and **M.A. Duffy**. Within-host priority effects alter pathogen co-existence via frequency dependency. Oral presentation at the **Ecological Society of America** Annual Meeting, Portland, Oregon.
2017. Clay, P., K. Dhir<sup>¶</sup>, V. Rudolf, and **M.A. Duffy**. Within-host priority effects alter pathogen co-existence via frequency dependency. Oral presentation at the **Ecology and Evolution of Infectious Diseases** meeting, Santa Barbara, CA.
2017. Sanchez<sup>#</sup>, K.F., N. Huntley<sup>¶</sup>, **M.A. Duffy**, and M.D. Hunter. Pick your poison: Algal resources mediate parasitism in an invertebrate system. Oral presentation at the **Benthic Ecology** Meeting, Myrtle Beach, South Carolina.
2017. Sanchez<sup>#</sup>, K.F., N. Huntley<sup>¶</sup>, **M.A. Duffy**, and M.D. Hunter. Pick your poison: Algal resources mediate parasitism in an invertebrate system. Poster presentation at the Annual Meeting of the Association of Tropical Biology and Conservation, Merida, Mexico.
2017. Shaw<sup>#</sup>, C.L., E. Overholt, C. Williamson, S.R. Hall, and **M.A. Duffy**. Solar radiation influences epidemic dynamics of dominant Daphnia parasites. Oral presentation at the **Ecological Society of America** Annual Meeting, Portland, Oregon.
2017. Gowler<sup>#</sup>, C.D., M.A. Rogalski<sup>#</sup>, and **M.A. Duffy**. Evidence for a dilution effect in Daphnia communities. Poster presentation at the **Ecology and Evolution of Infectious Diseases (EEID)** meeting, Santa Barbara, California.



2016. Strauss, A.T., A.M. Bowling, M.A. Duffy, C.E. Cáceres, and S.R. Hall. Hosts traits and modular species interactions predict dynamical disease outcomes. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Fort Lauderdale, FL.
2016. Shaw<sup>#</sup>, C.L. and M.A. Duffy. Factors that structure parasite populations in an aquatic host-parasite system. Oral presentation at the **Evolution Meeting** in Austin, TX.
2016. Clay, P.A., **M.A. Duffy**, M.H. Cortez, and V.H.W. Rudolf. Scaling parasite interactions: Between host processes as a function of within-host priority effects. Oral presentation at the **Ecology and Evolution of Infectious Diseases (EEID)** meeting, Ithaca, NY.
2015. Shocket, M.S., M.A. Duffy, C.E. Cáceres, and S.R. Hall. Temperature and algal food quality jointly regulate seasonality of epidemics in a zooplankton-fungus disease system. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Baltimore, MD.
2015. Shaw<sup>#</sup>, C.L., K. Hunsberger, C.D. Gowler<sup>#</sup>, S. de la Serna<sup>¶</sup>, K. Dhir<sup>¶</sup>, A. Villalba<sup>¶</sup>, M. Prado<sup>¶</sup>, C.L. Searle<sup>#</sup>, and M.A. Duffy. Predator-enhanced parasite transmission: When one threat unleashes another. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Baltimore, MD.
2015. Hite, J.L., S.R. Hall, R.M. Penczykowski<sup>#</sup>, M.S. Shocket, A. Strauss, M.A. Duffy, and P. Orlando. Parasites destabilize host populations by shifting stage-structured interactions: An evaluation combining models, experiments, and field data. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Baltimore, MD.
2015. Duffy, M.A., A. Longworth<sup>¶</sup>, K. Hunsberger, and I. Oleksy. Impacts of two virulent, sterilizing pathogens on *Daphnia* individuals, populations, and communities. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Baltimore, MD.
2015. Strauss, A.T., M.S. Shocket, J.L. Hite, D.J. Civitello, R.M. Penczykowski<sup>#</sup>, C.E. Cáceres, M.A. Duffy. Habitats, hosts, and fungus in the field: Regulators of *Metschnikowia* epidemics in natural zooplankton hosts. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Baltimore, MD.
2014. Shaw<sup>#</sup>, C.L., I.A. Oleksy, C.L. Searle<sup>#</sup>, D.C. Grippi<sup>#</sup>, K. Hunsberger, and M.A. Duffy. Effects of *Chaoborus* predation on size of *Pasteuria ramosa* epidemics in natural *Daphnia* populations. Poster presentation at the Annual Meeting of the **Ecological Society of America**, Sacramento, CA.
2014. Searle<sup>#</sup>, C.L., K. Hunsberger, D.C. Grippi<sup>#</sup>, I.A. Oleksy, C.L. Shaw<sup>#</sup>, S. de la Serna<sup>¶</sup>, and M.A. Duffy. Exotic species and native parasites: Biotic resistance versus parasite spillback. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Sacramento, CA.
2014. Hall, S.R., R.M. Penczykowski<sup>#</sup>, J.H. Ochs, M.S. Shocket, M.A. Duffy. Trait-mediated indirect effects can explain why parasites increase populations of zooplankton hosts. Oral presentation at the **Joint Aquatic Sciences Meeting**, Portland, OR.
2013. Penczykowski<sup>#</sup>, R.M., J.H. Ochs, H. Sundar<sup>¶</sup>, M.S. Shocket, B.C.P. Lemanski<sup>¶</sup>, S.R. Hall, and M.A. Duffy. Does infection alter resource consumption by hosts? Trait-mediated indirect effects of disease on resources in a *Daphnia*-yeast host-parasite system. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Minneapolis, MN.
2013. Searle<sup>#</sup>, C.L., J.H. Ochs, C.E. Cáceres, S.R. Hall, P. Lee, S.A. Duple, G.C. Davis, and M.A. Duffy. Host genotype determines the future infection success of a virulent parasite.

- Oral presentation at the Annual Meeting of the **Ecological Society of America**, Minneapolis, MN.
2013. Grippi<sup>#</sup>, D.C., S.K.J.R. Auld<sup>#</sup>, and M.A. Duffy. Variation in host resistance and tolerance towards parasites with different exploitation strategies. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Minneapolis, MN.
2013. Hall, S.R., K.M. Boatman, Z.A. Brown, D.J. Civitello, R.M. Penczykowski, M.S. Shocket, M.A. Duffy, and C.E. Cáceres. Parasites can stabilize consumer-resource dynamics, but do they? An evaluation using models, an experiment, and field data. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Minneapolis, MN.
2013. Grippi<sup>#</sup>, D.C., S.K.J.R. Auld<sup>#</sup>, and M.A. Duffy. Variation in host resistance and tolerance towards parasites with different exploitation strategies. Poster presentation at the **Ecology and Evolution of Infectious Diseases** meeting, State College, PA.
2012. Duffy, M.A., S.K.J.R. Auld<sup>#</sup>, J. Housley Ochs, D. Grippi<sup>#</sup>, R.M. Penczykowski<sup>#</sup>, D. Civitello, and S.R. Hall. Do resistance trade-offs differ among populations? Poster presentation at the **Ecology and Evolution of Infectious Diseases** meeting, Ann Arbor, MI.
2010. Hall, S.R., C. Becker, M.A. Duffy and C.E. Cáceres. Resource acquisition traits and trade-offs of hosts create and destroy key epidemiological relationships. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Pittsburgh, PA.
2010. Duffy, M.A., J.M. Housley, R.M. Penczykowski<sup>#</sup>, Z. Sims<sup>¶</sup>, C.E. Cáceres, and S.R. Hall. Unhealthy herds: trait-mediated indirect effects of predators increase host susceptibility. Oral presentation at the Annual Meeting of the **Ecological Society of America**, Pittsburgh, PA.
2010. Penczykowski<sup>#</sup>, R.M., S.R. Hall, and M.A. Duffy. Consequences of variation in disease resistance: Is there a within species dilution effect? Poster presentation at the Summer Meeting of the **American Society of Limnology and Oceanography**.
2009. Duffy, M.A., S.R. Hall, C.A. Klausmeier, and C.E. Cáceres. Resistance trade-offs, community context, and the evolution of host populations. Oral presentation in organized symposium at the Annual Meeting of the **Ecological Society of America**, Albuquerque, NM.
2009. Thomas<sup>#</sup>, S.H., K. Van Rensburg<sup>¶</sup>, and M.A. Duffy. Turning the tables: Addressing *Daphnia* epidemics from the perspective of parasite ecophysiology. Poster presentation at the Annual Meeting of the **Ecological Society of America**, Albuquerque, NM.
2009. Penczykowski<sup>#</sup>, R.M., S.R. Hall and M.A. Duffy. Consequences of variation in disease resistance: Is there a within species dilution effect? Oral presentation at the Annual Meeting of the **Ecological Society of America**, Albuquerque, NM.
2008. Duffy, M.A., C.E. Cáceres, S.R. Hall, C.R. Becker, and A.J. Tessier. Multi-scale patterns of parasitism in lake plankton. Oral presentation, Annual Meeting of the **Ecological Society of America**, Milwaukee, WI.
2008. Hall, S.R., C. Becker, C.J. Knight, M.A. Duffy and A.J. Tessier. Quality matters: Resources and disease dynamics in a planktonic host-parasite system. Oral presentation, Annual Meeting of the **Ecological Society of America**, Milwaukee, WI.
2007. Duffy, M.A., A.R. Ives, and S.R. Hall. Rapid evolution and ecological host-parasite dynamics. Oral presentation, Annual Meeting of the **Ecological Society of America**, San Jose, CA.

2007. Duffy, M.A., C.A. Klausmeier, C.E. Brassil, S.R. Hall, A.J. Tessier, C.E. Cáceres, and J.K. Conner. Parasite-mediated disruptive selection followed by assortative mating in a natural *Daphnia* population. Oral Presentation at the **Fields Workshop** “The Mathematics of Evolution: Adaptive Dynamics in Theory and Practice”, Ottawa, Canada
2007. Cáceres, C.E., S.R. Hall, R.L. Smyth, M.A. Duffy, S. MacIntyre, and A.J. Tessier. Regional and local determinants of fungal parasite dynamics in seven populations of *Daphnia*. Poster presentation, Aquatic Sciences Meeting of the **American Society of Limnology and Oceanography**, Santa Fe, NM.
2006. Duffy, M.A. Is the enemy of my enemy really my friend? Selective predators, virulent parasites, and *Daphnia* populations. Oral presentation, Annual Meeting of the **Ecological Society of America**, Memphis, TN. (Talk received the Aquatic Ecology Section Best Talk Award and Honorable Mention for the Buell Award for the outstanding student oral presentation)
2006. Hall, S.R., A.J. Tessier, M.A. Duffy, M. Huebner and C.E. Cáceres. Warmer does not have to mean sicker: Temperature and predators can jointly drive timing of epidemics. Oral presentation, Annual Meeting of the **Ecological Society of America**, Memphis, TN.
2006. Duffy, M.A. Is the enemy of my enemy really my friend? Selective predators, virulent parasites, and *Daphnia* populations. Oral presentation, Summer Meeting of the **American Society of Limnology and Oceanography**, Victoria, British Columbia.
2005. Hall, S.R., L. Sivars-Becker, C. Becker, M.A. Duffy, A.J. Tessier and C.E. Cáceres. Eating yourself sick: transmission of disease as a function of feeding biology of hosts. Oral presentation, Annual Meeting of the **Ecological Society of America**, Montreal.
2005. Duffy, M.A., C.E. Brassil, and S.R. Hall. Disruptive selection during a parasite epidemic in a natural *Daphnia* population. Oral presentation, Joint Meeting of the **Society for the Study of Evolution and American Society of Naturalists**, Fairbanks, AK.
2005. Duffy, M.A. and S.R. Hall. *Daphnia* diseases and dynamics: linking individual- and population-level effects of parasitism. Poster presentation, **Ecology and Evolution of Infectious Diseases Conference**, Fort Collins, CO.
2005. Hall, S.R., A.J. Tessier, M.A. Duffy, and C.E. Cáceres. Temperature, parasites, and predators: interactive drivers of epidemics? Poster presentation, **Cary Conference: Infectious Disease Ecology**, Milbrook, NY.
2005. Cáceres, C.E., S.R. Hall, M.A. Duffy, S.A. MacIntyre, and A.J. Tessier. Spatial and temporal variation in *Metschnikowia* epidemics in 18 populations of *Daphnia dentifera*. Oral presentation, Aquatic Sciences Meeting of the **American Society of Limnology and Oceanography**, Salt Lake City, UT.
2005. MacIntyre, S.A., J.O. Sickman, S.A. Goldthwait, G.W. Kling, C.E. Cáceres, S.R. Hall, M.A. Duffy and A.J. Tessier. Consequences of turbulence at interfaces. Oral presentation, Aquatic Sciences Meeting of the **American Society of Limnology and Oceanography**, Salt Lake City, UT.
2004. Hall, S.R., M.A. Duffy, A.J. Tessier and C.E. Cáceres. Oscillations, Allee effects, and catastrophes: Predators and productivity can strongly shape host-parasite interactions. Oral presentation, Annual Meeting of the **Ecological Society of America**, Portland, OR.
2004. Duffy, M. A., S. R. Hall, A. J. Tessier and M. Huebner. Selective predators and their parasitized prey: Top-down control of epidemics. Oral presentation, Annual Meeting of the **Ecological Society of America**, Portland, OR.

2003. Duffy, M. A. and P. L. Woodruff. The seasonal phenology of parasitism in *Daphnia* lake populations. Oral presentation, Aquatic Sciences Meeting of the **American Society of Limnology and Oceanography**, Salt Lake City, UT.
2002. Duffy, M. A. and A. J. Tessier. The relevance of cryptic *Daphnia* species. Oral presentation, **Society for the Study of Evolution**, Champaign-Urbana, IL.
2001. Duffy, M. A., L. J. Perry, C. M. Kearns, L. J. Weider, and N. G. Hairston, Jr. Paleogenetic evidence for a past invasion of Onondaga Lake, New York, by exotic *Daphnia curvirostris* using mtDNA from dormant eggs. Oral presentation, Aquatic Sciences Meeting of the **American Society of Limnology and Oceanography**, Albuquerque, NM.
2000. Hairston, N.G., Jr., C.M. Kearns, L.J. Perry and M.A. Duffy. Tracing zooplankton response to environmental change using the diapausing egg bank. Oral presentation, Summer Meeting of the **American Society of Limnology and Oceanography**, Copenhagen, Denmark.
1999. Duffy, M. A., L. J. Perry, C. M. Kearns, L. J. Weider, and N. G. Hairston, Jr. Molecular genetic identification of a typically European *Daphnia* in the egg bank of a polluted North American lake. Oral presentation, **Fifth International Symposium on Cladocera**, Plön, Germany.

**University Service – Michigan, within department:**

- 2022-present EEB Executive Committee
- 2021 Chair of EEB Department’s Search Committee for President’s Postdoctoral Fellows and LSA Collegiate Fellows
- 2020-2022 EEB Undergraduate Affairs Committee
- 2019-2020 NextProf; EEB Departmental Representative (along with 1-2 other faculty)
- 2019-2021 EEB Department mentor for Nyeema Harris
- 2019-present EEB Department mentor for Maria Natalia Umaña
- 2019-present EEB Department mentor for Luis Zaman
- 2017-2018 EEB Graduate Admissions Committee
- 2017, 2018 Frontiers Masters Admissions Committee
- 2016-present EEB Department mentor for Melissa Duhaime
- 2016 Faculty Search Committee (Ecosystem Ecology)
- 2016, 2017 Nominating Committee, Department of Ecology & Evolutionary Biology
- 2015 EEB Department Liaison to REBUILD “Bridges to Science” orientation for Comprehensive Studies Program students
- 2015 Faculty Search Committee (Ecology or Evolutionary Biology of Fishes or Birds)
- 2014-2017\* EEB Executive Committee  
\*terms served on Executive Committee: Fall 2014, Fall 2015, Winter 2017
- 2014-2016 EEB Department mentor for Chelsea Wood (Michigan Fellow)
- 2014-2015 EEB Department Liaison to M-STEM Academies
- 2013-2014 Faculty Search Committee (Ecology and Evolutionary Ecology)
- 2013 Ad hoc Building Committee
- 2012-2014 Graduate Admissions Committee, Department of Ecology & Evolutionary Biology

**University Service – Michigan, outside department:**

- 2022-present CRLT Players External Advisory Board
- 2021-present Member, Graduate/Professional Student Needs Work Team, Student Mental Health Committee
- 2021-2024 President's Public Engagement Awards Selection Committee
- 2021-present Chair of Rackham's Mental Health and Wellbeing Committee
- 2019-2021 Chair of Rackham Task Force on Graduate Student Mental Health
- First Year Report available [here](#); all 10 recommendations were [officially accepted by Dean Solomon](#)
- 2019-present President's Postdoctoral Fellowship Program Advisory Committee
- 2019-2020 ADVANCE Launch Committee for Roland Kersten (College of Pharmacy)
- 2019 LSA Faculty Advisory Group on Inclusive Teaching
- 2018-2021 Institute for Global Change Biology Steering Committee
- 2018-2019 "Big Idea" Working Group member, focused on undergraduate education at Michigan
- 2018 Developed "Introduction to R" activity for M-Sci Academy; led instructor training
- 2018-present Academic Innovation Advisory Committee
- 2018 ADVANCE Launch Committee for Jena Johnson (Earth & Environmental Sciences)
- 2017 Foundational Course Initiative Design Group member
- 2017 Fall Provost's Seminar on Teaching (PSOT):
- member of Planning Advisory Committee
  - lightning talk on representing student learning
  - discussion facilitator
- 2017-2018 University Senate Assembly (LSA Representative)
- 2016-present UM Museum of Natural History Faculty Science Advisory Committee
- 2015-2018 ADVANCE Program *ad hoc* parenting committee
- 2015-2018 UMich Software Carpentry co-Director
- 2015 Organized (along with Pat Schloss) a Software Carpentry workshop for Women in Science and Engineering (57 attendees)

### **University Service – Georgia Tech:**

- 2012 Founded Society for BioDiversity, which focuses on topics of interest to underrepresented minority students in Biology
- 2011-2012 Undergraduate Committee, School of Biology
- 2010 Judge for GT Research and Innovation Conference
- 2010 Aquatic Chemical Ecology REU Site Program Co-director and temporary co-PI
- 2009-2011 School of Biology Web News Committee
- 2009 Judge for Undergraduate Research Spring Symposium
- 2008-2012 Led development of concept assessment to be used in Ecology courses at Georgia Tech; responsible for implementation and analysis of assessment in Ecology courses until 2012
- 2008 Judge for 2008 Siemens Regional Competition in Math, Science and Technology (held at Georgia Tech)

2008 Judge for Undergraduate Research Spring Symposium

**Service Outside University:**

Editorial Service:

2015-present Editorial Board for *American Naturalist*  
2016 *American Naturalist* Editor-in-Chief Selection Committee  
2013-2016, 2018-2020 Editorial Board for *Ecology and Evolution*

Society-level Service:

2021 Past Vice President, American Society of Naturalists  
2020 Vice President, American Society of Naturalists  
2019 Vice President-elect, American Society of Naturalists  
2017 Organized career workshop for SEEDS students at the Ecological Society of America (SEEDS seeks to diversify ecology)  
2016-2019 Chair, Mercer Award Subcommittee, Ecological Society of America  
2013-2016 Member, Grants and Fellowships Committee, Ecological Society of America  
2013-2015 Chair of the Aquatic Ecology Section of the Ecological Society of America  
2011-2013 Vice-chair of the Aquatic Ecology Section of the Ecological Society of America  
2009 Organized oral session at 2009 Ecological Society of America Meetings on “Evolutionary Ecology of Invertebrate Host-Parasite Interactions” (with N. Gerardo, Emory)  
2008-2011 Web page administrator for Ecological Society of America’s Aquatic Ecology Section

Grant-review panel Service:

2022 Proposal Review Panelist, National Science Foundation, Division of Environmental Biology  
2015 Preproposal Panelist, National Science Foundation, Division of Environmental Biology, Population and Community Ecology  
2013 Proposal Review Panelist, National Science Foundation, Division of Environmental Biology, Evolutionary Ecology Panel  
2010 Proposal Review Panelist, National Science Foundation, Division of Environmental Biology, Ecology Program, Population and Community Ecology Panel  
2009 Proposal Review Panelist, National Science Foundation, Division of Environmental Biology, Ecology Program, DDIG Panel  
2008 Proposal Review Panelist, National Science Foundation, Division of Environmental Biology, Ecology Program, DDIG Panel

Advisory Boards:

2019-present Advisory Board, Eco-BLIC, an NSF-funded project led by Michelle Smith (Cornell) focused on critical thinking skills in ecology lab and field courses  
2017-2018 Advisory Board, [500 Women Scientists](#), which aims to transform leadership, diversity, and public engagement in science  
2013-2018 External Advisory Board, BEACON Center for the Study of Evolution in Action, Michigan State University

### Peer-Reviewing:

Manuscript reviewer for: *Ambio*; *American Naturalist*; *Behavioral Ecology*; *Biology Letters*; *BMC Biology*; *BMC Ecology*; *BMC Evolutionary Biology*; *EcoHealth*; *Ecological Entomology*; *Ecology*; *Ecology & Evolution*; *Ecology Letters*; *Ecosphere*; *FEMS Microbiology Ecology*; *Freshwater Biology*; *Fundamental and Applied Limnology/Archiv für Hydrobiologie*; *Harmful Algae*; *Heredity*; *Hydrobiologia*; *International Review of Hydrobiology*; *ISME Journal*; *Journal of Animal Ecology*; *Journal of Evolutionary Biology*; *Journal of Experimental Biology*; *Journal of Higher Education*; *Journal of the Royal Society Interface*; *Journal of Theoretical Biology*; *Limnology and Oceanography*; *Molecular Ecology*; *Nature Climate Change*; *Oecologia*; *Oikos*; *Parasitology*; *Philosophical Transactions of the Royal Society B*; *PLoS ONE*; *Proceedings of the Royal Society of London B*; *Science*; *Scientific Reports*; *Trends in Ecology & Evolution*; *Trends in Parasitology*.

Ad hoc grant proposal review for: National Science Foundation (Programs: Biological Oceanography; Ecology; Ecosystem Studies; International Research Fellowship; Population and Community Ecology; Population and Evolutionary Processes), National Geographic, German Research Foundation, Katholieke Universiteit Leuven, Leverhulme Trust, and Research Foundation Flanders (Belgian Foundation for Scientific Research).

External examiner/opponent for PhD dissertations at the University of Otago (New Zealand; student: Amanda Valois), the University of Montpellier (France; student: Eva Lievens), and The Arctic University of Norway (student: Eirik Henriksen)

### Other:

Co-creator (along with Gina Baucom) of [DiversifyEEB](#), a resource for highlighting scientists who are women and/or underrepresented minorities. Gina & I came up with the idea and have run this since we created it in 2016.

Co-creator (along with Terry McGlynn) of [EEB Mentor Match](#), a resource for pairing students from underrepresented groups with mentors who can provide feedback on fellowship and graduate school applications; I came up with the idea and ran this with Terry McGlynn in 2017 & 2018, but am no longer involved in running this.

### **Membership in Professional Societies:**

American Association for the Advancement of Science

American Society of Limnology and Oceanography

American Society of Naturalists

Ecological Society of America

Society for the Study of Evolution

### **Graduate and Undergraduate Students Supervised:**

#### **A) Graduate students:**

##### **Graduate students for whom I currently serve as advisor:**

Elizabeth (Libby) Davenport Ph.D. student (2020-present); NSF Graduate Research Fellowship  
Honorable Mention

Katherine McLean Ph.D. student (2016-present); NSF Graduate Research Fellow;  
Rackham Merit Fellow

Kristel Sánchez	Ph.D. student (2017-present); previously Frontiers Masters student (2015-2017; co-advised with Mark Hunter); NSF Graduate Research Fellow; Rackham Merit Fellow
Teresa Sauer	Ph.D. student (2021-present); NSF Graduate Research Fellow

**Current graduate students on whose thesis committees I serve:**

Bhaskar Kumawat	Ph.D. student, University of Michigan EEB
Diana Carolina Vergara-Florez	Ph.D. student, University of Michigan EEB
Rebecca Clemons	M.S. student, University of Michigan EEB
Nikesh Dahal	Ph.D. student, University of Michigan EEB
Nia Johnson	Ph.D. student, University of Michigan EEB
Morgan Lindback	Ph.D. student, University of Michigan EEB
Kirby Mills	Ph.D. student, University of Michigan EEB
Jo Osborn	Ph.D. student, University of Michigan Anthropology
Anthony (AJ) Wing	Ph.D. student, University of Michigan EEB

**Past graduate students for whom I served as advisor:**

Camden Gowler	Ph.D. 2020; Rackham Predoctoral Fellow; NSF Graduate Research Fellowship Honorable Mention; currently fellow at the Centers for Disease Control & Prevention
Dylan Grippi	M.S. 2014, University of Michigan; currently Consumer Safety Officer, US Food & Drug Administration
Khadijah Payne	M.S. 2020, Frontiers Masters Program, University of Michigan; currently Biology Instructor at St. Augustine's University
Rachel Penczykowski	Ph.D. 2013, Georgia Tech Biology; NSF Graduate Research Fellow, GT President's Fellow; currently Assistant Professor at Washington University-St. Louis
Clara Shaw	Ph.D. 2019, University of Michigan; Rackham One Term Fellow; currently Postdoctoral Scientist, Penn State University

**Past graduate students on whose thesis committees I served:**

Kevin Bakker	Ph.D. 2017, University of Michigan EEB
Anat Belasen	Ph.D. 2019, University of Michigan EEB
Clarisse Betancourt	M.S. 2014, University of Michigan EEB
Cindy Bick	Ph.D. 2018, University of Michigan EEB
Feng-Shun (Oscar) Chang	Ph.D. 2019, University of Michigan SEAS
Tad Dallas	Ph.D. 2016, University of Georgia
Leslie Decker	Ph.D. 2018, University of Michigan EEB
Michelle Fearon	Ph.D. 2020, University of Michigan EEB
Gordon Fitch	Ph.D. student, University of Michigan EEB
Keri Goodman	M.S. 2011, Georgia Tech Biology
Melanie Heckman	M.S. 2011, Georgia Tech Biology
Joanna Larson	Ph.D. 2020, University of Michigan EEB
David Murphy	Ph.D. 2012, Georgia Tech Civil and Environmental Engineering
Xorla Ocloo	M.S. 2018, University of Michigan EEB
Benjamin Parker	Ph.D. 2013, Emory University Population Biology, Ecology and



## Evolution

Chase Rakowski	M.S. 2015, University of Michigan SNRE
Doug Rasher	Ph.D. 2012, Georgia Tech Biology
Anjali Shakya	M.S. 2021, University of Michigan EEB
Robert Drew Sieg	Ph.D. 2013, Georgia Tech Biology
Byron Smith	Ph.D. 2018, University of Michigan EEB
Jiaqi Tan	Ph.D. 2014, Georgia Tech Biology
Sarah Westrick	Ph.D. 2020, University of Michigan Psychology
Spenser Widin	M.S. 2021, University of Michigan SEAS
Andrew Wood	Ph.D. 2019, University of Michigan EEB

### **B) Postdoctoral fellows supervised:**

- Stuart Auld (Ph.D., 2011, University of Edinburgh): 2011-2012, currently Lecturer, University of Stirling, Scotland
- Patrick Clay (Ph.D., 2019, Rice University): 2019-2020, currently at US Centers for Disease Control and Prevention
- Marcin Dziuba (Ph.D., 2021, Adam Mickiewicz University, Poland): 2021-present
- Michelle Fearon (Ph.D., 2020, University of Michigan): 2020-present
- Laura Lopez (Ph.D., 2017, University of Wollongong): 2018-2021, currently at National Centre for Immunisation Research and Surveillance, Australia
- Kristina McIntire (Ph.D., 2020, Illinois State University): 2021-present
- Mary Rogalski (Ph.D., 2015, Yale University): 2015-2018, currently Assistant Professor, Bowdoin College
- Catherine Searle (Ph.D., 2011, Oregon State University): 2011-2014, currently Associate Professor, Purdue University
- Syuan-Jyun Sun (Ph.D., 2020, University of Cambridge): 2021-2022, currently Assistant Professor, National Taiwan University
- Sara Thomas (Ph.D., 2009, Georgia Institute of Technology): 2009-2010; recipient of School of Biology's VWR Postdoctoral Award for Scientific Excellence in Experimental Biology; currently teacher, Wheeler High School, Cobb County, GA
- Nina Wale (Ph.D., 2016, Penn State University): 2016-2020; recipient of Hamilton Award from the Society for the Study of Evolution and the Omenn Prize from the International Society for Evolution, Medicine, and Public Health; currently Assistant Professor, Michigan State University

### **C) Undergraduate students who have performed research in my group:**

<u>Name</u>	<u>College/Program, year(s) in Duffy Lab</u>
Noah Manuszak	U. Michigan, 2022-present (REU Summer 2022)
Paige McCreadie	U. Michigan, 2022-present
Megan Vaandrager	U. Michigan, 2022
Morgan Bates	U. Michigan, 2022-present
Emma Baird	U. Michigan, 2021-present
Shannon Flores	U. Michigan, 2021-2022
Logan Jacobson	U. Michigan, 2021-present
Varun Ravichandran	U. Michigan, 2021-present (REU Summer 2021)
Peter Akande	U. Michigan, 2020 (REU)

Vannessa Mkwe	U. Michigan, 2020 (REU)
Nathalie O'Hernandez	U. Michigan, 2020 (REU)
Rija Awan	U. Michigan, 2020
Ellie Holmes	U. Michigan, 2020
Jamie Trepeck	U. Michigan, 2020
Aniqa Maisha	U. Michigan, 2019-2022
Karen Cao	U. Michigan, 2019-2020
Kathryn Sullivan	U. Michigan, 2019-2020
Anita Weng	U. Michigan, 2019-2020 (UROP)
Ahmad Kafri	U. Michigan, 2019-present (UROP)
Haikel Haile	U. Michigan, 2019
Jade Garcia	Cal State-Dominguez Hills, 2019 (REU)
Vincent Hernandez	Cal State-Dominguez Hills, 2019 (REU)
Elizabeth Solis	Cal State-Dominguez Hills, 2019 (REU)
Baili Zhong	Doris Duke Conservation Scholar, 2019
Jorge Agudelo	Doris Duke Conservation Scholar, 2019
Joshua Cohen	U. Michigan, 2019
Ellie Simon	U. Michigan, 2019
Liberty Woodside	U. Michigan, 2019-2020
Catherine Zheng	U. Michigan, 2019-2020
Zenani Kettle	U. Michigan, 2018
Alliyah Lusuegro	Doris Duke Conservation Scholar, 2018
Mia McPherson	Doris Duke Conservation Scholar, 2018
Seeta Goyal	U. Michigan, 2018-2019
Bruce O'Brien	U. Michigan, 2018-2019
Julia Meng	U. Michigan, 2018
Aliruda El-Sayed	U. Michigan, 2017-2018 (UROP)
Haley Essington	U. Michigan, 2017-2021; Biology High Honors
Karana Wickens	U. Michigan, 2017-2018
Claire Freimark	U. Michigan, 2017-2019; Biology Honors
Justin Ramirez	U. Michigan, 2017-present (REU)
Haniyeh Zamani	U. Michigan, 2017-2018; Biology Honors
Blenna Kiros	Doris Duke Conservation Scholar, 2017
Harbria Gardner	Doris Duke Conservation Scholar, 2017
Stephanie Roskowski	U. Michigan, 2016-2017 (UROP)
McKenna Turrill	U. Michigan, 2016-2019; Biology Honors
Rachel DeCaluwe	U. Michigan, 2016-2017
Morgan Rondinelli	U. Michigan, 2016-present (2017 LSA Honors Summer Fellowship); Biology Honors
Xavier Nelson	Doris Duke Conservation Scholar, 2016
Gabby Vargas	Doris Duke Conservation Scholar, 2016
Naomi Huntley	U. Michigan, 2016
Ruby Siada	U. Michigan, 2015-2016
Natalie Imirzian	U. Michigan, 2015-2016; Biology Honors
Abdurrahman Abdi	U. Michigan, 2015-2016
Magen Prado	Cal State-Dominguez Hills, 2014 (REU)

Alejandra Villalba	Cal State-Dominguez Hills, 2014 (REU)
Rebecca Bilich	U. Michigan, 2013-2017; Biology Honors
Kailash Dhir	U. Michigan, 2013-2016
Alan Longworth	U. Michigan, 2013-2015 (UROP Research Scholar)
Solanus de la Serna	U. Michigan, 2013-2015 (UROP)
Chloe Lash	Valparaiso University, 2013 (REU)
Rebecca Healy	Mercyhurst College, 2013 (REU)
Amanda Bromilow	U. Michigan, 2012-2014
Brian Lemanski	Colgate University, 2012 (REU) Received Best REU Student Poster Award at 2013 ASLO Meeting
Blake Christianson	Georgia Tech, 2012
Katherine Uyesugi	Georgia Tech, 2011-2012
Mathew Sebastian	U. South Carolina, 2011 (REU)
Elisabeth Clark	Spelman College, 2011 (REU)
Kevin Rothstein	Georgia Tech, 2011-2012
Zuri Hudson	Georgia Tech, 2011-2012 (REU summer 2012)
Alison Burger	Georgia Tech, 2011-2012
Sara Snell	Georgia Tech, 2011-2012 President's Undergraduate Research Award recipient, Research Option, Honors Thesis
Hema Sundar	Georgia Tech, 2011-2012
Stephanie Hernandez	Georgia Tech, 2010-2012 (REU summer 2012) President's Undergraduate Research Award recipient, Research Option, Honors Thesis
Cherise Washington	Spelman College, 2010-2011 (REU and NIH RISE Fellow at Georgia Tech)
Freddie Irizarry Delgado	U. Puerto Rico-Mayaguez, 2010 (REU)
Tamanna Ahmed	Georgia Tech, 2010-2011 President's Undergraduate Research Award recipient, Research Option, Honors Thesis
Seda Grigoryan	Georgia Tech, 2010
Kristine Jansen	Georgia Tech, 2010
Susie Lee	Georgia Tech, 2010
Bonnie Ann Sarrell	Georgia Tech, 2009-2011
Grace Wilkinson	St. Olaf College, 2009 (REU at Georgia Tech)
Zayani Sims	Spelman College, 2009 (REU and Temp at Georgia Tech)
Abigail Reynolds	Georgia Tech, 2009-2010 President's Undergraduate Research Award recipient, Research Option, Honors Thesis
Karla Van Rensburg	Georgia Tech, 2009-2010 Research Option, Honors Thesis
Kathryn Kenline	Georgia Tech, 2009-2010
Jessica Housley	Georgia Tech, 2008-2009
Sierra Schmidt	Georgia Tech, 2008 President's Undergraduate Research Award recipient
Laura Geronimo	Wesleyan University, summer volunteer at Georgia Tech, 2008

Derek DeRaps  
Natalie Huch Hardegree

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