

Last updated: May 23, 2023

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

Susan S. Kilham Collegiate Professor of Ecology and Evolutionary Biology  
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**

2022- Susan S. Kilham Collegiate Professor of Ecology and Evolutionary Biology  
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**

**Michigan**

Fall 2023	Bio 171: Introductory Biology: Ecology & Evolution - co-taught with Dr. Marjorie Weber	~600 students
Fall 2022	Bio 171: Introductory Biology: Ecology & Evolution - co-taught with Dr. Marjorie Weber	572 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 - co-taught with Dr. Patricia Wittkopp	524 students
Fall 2014	Bio 171: Introductory Biology: Ecology & Evolution - co-taught with Dr. Patricia Wittkopp	592 students
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

### 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

2023	Fellow, Ecological Society of America
2022	Appointed Susan S. Kilham Collegiate Professor (the UMich College of Literature, Science, and the Arts' highest faculty honor, awarded for demonstration of excellence in research and scholarship, in teaching, in service, and in other contributions to the university)
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 EEBC 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

First and last author positions are positions of emphasis

### Published or in press, peer-reviewed

102. Lopez, L.K., M.H. Cortez, T. DeBlieux, I.A. Menel, B. O'Brien, C.E. Cáceres, S.R. Hall, and **M.A. Duffy\***. 2023. A healthy but depleted herd: Predators decrease prey disease and density. *Ecology*, in press. <https://esajournals.onlinelibrary.wiley.com/doi/10.1002/ecy.4063>

Data and code: <https://doi.org/10.5061/dryad.w3r2280tm>

101. Sun, S-J.\*, Calhoun, S.K., and **M.A. Duffy**. 2023. Host and parasite functional morphology jointly explain parasite specificity. *Functional Ecology*, in press.

<https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2435.14323>

Data and code: <https://doi.org/10.5281/zenodo.7754587>

100. Sánchez, K.F.\*, B. Zhong, J.A. Agudelo, and **M.A. Duffy**. 2023. Infectivity of the parasite *Metschnikowia bicuspidata* is decreased by time spent as a transmission spore, but exposure to phycotoxins in the water column has no effect. *Freshwater Biology*, 68:1020-1030.

<https://onlinelibrary.wiley.com/doi/full/10.1111/fwb.14082>

Data and code: <https://doi.org/10.5061/dryad.612jm6420>

99. Richards, R.L., B.D. Elder, and **M.A. Duffy**. 2023. Unhealthy herds and the predator spreader: understanding when predation increases disease incidence and prevalence. *Ecology*

and *Evolution*, 13:e9918. <http://dx.doi.org/10.1002/ece3.9918>

Data and code: No data or code associated with this manuscript

98. Sun, S.-J. \*, M.K. Dziuba, R. Jaye, and M.A. Duffy. 2023. Transgenerational plasticity in a zooplankton in response to elevated temperature and parasitism. *Ecology and Evolution*, in press. <http://dx.doi.org/10.1002/ece3.9767>  
Data and code: <https://doi.org/10.5061/dryad.4qrfj6qf5>
97. Shaw, C.L. \* and M.A. Duffy. 2023. Rapid evolution of a bacterial parasite during outbreaks in two lakes. *Ecology and Evolution*, in press. <https://doi.org/10.1002/ece3.9676>  
Data and code: <https://github.com/clarashaw/PasteuriaEvolution>
96. Walsman, J., M.A. Duffy, and C.E. Cáceres, and S.R. Hall. 2023. ‘Resistance is futile’: Weaker selection for resistance when parasites are abundant further increases prevalence and depresses host density. *American Naturalist*, in press. <https://doi.org/10.1086/724426>
95. Hasik, A.Z., D. de Angeli Dutra, J-F. Doherty, M.A. Duffy, R. Poulin, and A.M. Siewielski. 2023. Resetting our expectations for parasites and their effects on species interactions: a meta-analysis. *Ecology Letters*, 26(1):184-199.  
<https://onlinelibrary.wiley.com/doi/10.1111/ele.14139>  
Data and code: <https://datadryad.org/stash/dataset/doi:10.5061/dryad.wdbrv15sb>
94. Sun, S.-J. \*, M.K. Dziuba, R. Jaye, and M.A. Duffy. 2023. Temperature modifies trait-mediated infection outcomes in a *Daphnia*-fungal parasite system. *Philosophical Transactions of the Royal Society*, 378:20220009.  
<https://royalsocietypublishing.org/doi/10.1098/rstb.2022.0009>  
Data and code: <https://doi.org/10.6084/m9.figshare.c.6360109.v1>
93. McLean, K.D. \*, C.D. Gowler, M.K. Dziuba, H. Zamani, S.R. Hall, and M.A. Duffy. 2023. Sexual recombination and temporal gene flow maintain host resistance and genetic diversity. *Evolutionary Ecology*, 37:97-111. <https://doi.org/10.1007/s10682-022-10193-6>  
Data and code: [doi:10.5061/dryad.k3j9kd5cj](https://doi.org/10.5061/dryad.k3j9kd5cj)
92. Gowler, C.D., H. Essington, B. O’Brien, C.L. Shaw, R.W. Bilich, P.A. Clay, and M.A. Duffy\*. 2023. Virulence evolution during a naturally occurring parasite outbreak. *Evolutionary Ecology*, 37:113-129. doi: [10.1007/s10682-022-10169-6](https://doi.org/10.1007/s10682-022-10169-6) (cover image)  
Data and code: <https://doi.org/10.5061/dryad.b8gtht7db>
91. Sun, S.-J. \*, M.K. Dziuba, K.M. McIntire, R. Jaye, and M.A. Duffy. 2022. Transgenerational plasticity alters parasite fitness in changing environments. *Parasitology*, 149(11):1515-1520.  
<https://doi.org/10.1017/S0031182022001056>  
Data and code: <https://github.com/syuanjyunsun/parasite-transgen-exp>
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>  
Data and code: <https://github.com/duffymeg/LookingAcrossScales>
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>  
Data and code: <https://doi.org/10.5061/dryad.np5hqbzsd>
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>  
Data and code: <https://datadryad.org/stash/dataset/doi:10.5061/dryad.dv41ns20h>
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>

Data and code: <https://doi.org/10.5061/dryad.1ns1rn8t4>

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>

Data and code: none associated with this review manuscript

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>

Data and code: <https://doi.org/10.5061/dryad.pzgmsbcm6>

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)

Data and code: <https://doi.org/10.5061/dryad.nk98sf7tc>

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>

Data and code: none associated with this manuscript

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>

Data and code: <https://doi.org/10.5061/dryad.3tx95x6fz>

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>

Data and code: none associated with this manuscript

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>

Code: <https://doi.org/10.5061/dryad.kwh70rz27>

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>

Data: <https://doi.org/10.5061/dryad.fbg79cntb>

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)

Code: <https://doi.org/10.5061/dryad.pzgmsbchp>

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)

Data and code: <https://doi.org/10.5061/dryad.w3r2280nk>

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)  
Data and code: <https://doi.org/10.5061/dryad.pnvx0k6h6>
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)  
Data and code: <https://doi.org/10.5061/dryad.2jm63xskd>
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

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.
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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)
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19. **Duffy, M.A.\*** and S.E. Forde. 2009. Ecological feedbacks and the evolution of resistance. *Journal of Animal Ecology*, 78:1106-1112.
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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.)
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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)

## Preprints

1. *McIntire, K.M. \**, *M.K. Dziuba*, E. Haywood, M. Robertson, *M. Vaandrager*, *E. Baird*, *F. Corcoran*, M.H. Cortez, and **M.A. Duffy**. Transgenerational virulence: Maternal exposure to pathogens reduces offspring lifespan. <https://www.biorxiv.org/content/10.1101/2023.03.14.532659v1>  
Data and code: <https://github.com/kmmcintire/TGV>
2. *Dziuba, M.K. \**, *K.M. McIntire*, K. Seto, *E.S. Davenport*, *M.A. Rogalski*, *C.D. Gowler*, *E. Baird*, *M. Vaandrager*, *C. Huerta*, *R. Jaye*, *F.E. Corcoran*, A. Withrow, S. Ahrendt, A. Salamov, M. Nolan, S. Tejomurthula, K. Barry, I. Grigoriev, T.Y. James, and **M.A. Duffy**. Phylogeny, morphology, virulence, ecology, and host range of *Ordospora pajunii* (Ordosporidae), a microsporidian symbiont of *Daphnia spp.* <https://www.biorxiv.org/content/10.1101/2023.04.21.537887v1>

## Research grants

### 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, Florida 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. *Ensia*. Publication date: March 29, 2017. <https://ensia.com/voices/clean-water-environment-protection/>  
- *Ensia* 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

### Invited seminars and conference presentations

- 2023: Gordon Research Conference: Writing the Microbial Constitution (was scheduled for 2021, rescheduled for 2023 due to pandemic)
- 2023: Penn State University, Center for Infectious Disease Dynamics (remote seminar scheduled for February 2023)
- 2022: Rocky Mountain Biological Laboratory, Douglass Distinguished Lecture (research seminar and public seminar)
- 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 (research seminar and public seminar)
- 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



## University Service

### Michigan, within department

2022-present	EEB Department mentor for Marjorie Weber
2022-present	EEB Executive Committee
2021	Chair of EEB Department's Search Committee for President's Postdoctoral Fellows and LSA Collegiate Fellows
2020-present	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
2016-2023	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

### Michigan, outside department

2022-present	CRLT Players External Advisory Board
2021-2022	Member, Graduate/Professional Student Needs Work Team, Student Mental Health Committee
2021-2024	President's Public Engagement Awards Selection Committee <ul style="list-style-type: none"><li>• Chair of committee in 2022-2023</li></ul>
2021-2023	Chair of Rackham's Mental Health and Wellbeing Committee
2019-2021	Chair of Rackham Task Force on Graduate Student Mental Health <ul style="list-style-type: none"><li>• First Year Report available <a href="#">here</a>; all 10 recommendations were <a href="#">officially accepted by Dean Solomon</a></li></ul>
2019-2022	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)

### 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

### External 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*; *Aquatic Toxicology*; *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 Engineering Education*; *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 Students Supervised**

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

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

#### **Visiting graduate student**

Natalia Ferreira Dos Santos	Ph.D. student Federal Rural University of Pernambuco, Brazil (2022-present)
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#### **Current graduate students on whose thesis committees I serve**

Anah Soble	M.S. student, University of Michigan EEB
Jessica Ibiebele	Ph.D. student, University of Michigan Epidemiology
Sarah Jane Bork	Ph.D. student, University of Michigan Engineering Education Research
Cheyenne Graham	Frontiers Masters Student, University of Michigan EEB
Bhaskar Kumawat	Ph.D. student, University of Michigan EEB
Diana Carolina Vergara-Florez	Ph.D. 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
Anthony (AJ) Wing	Ph.D. student, University of Michigan EEB

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

Katherine McLean	Ph.D. 2022; NSF Graduate Research Fellow; Rackham Merit Fellow; currently postdoctoral fellow, U. Michigan Epidemiology
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 Assistant Professor, University of Minnesota-Duluth

### **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
Rebecca Clemons	M.S. 2022, University of Michigan EEB
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
Jo Osborn	Ph.D. 2022, University of Michigan Anthropology
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

### **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): 2019-2021, 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

### **Undergraduate students who have performed research in my group (100 students since 2008)**

<b>Name</b>	<b>College/Program, year(s) in Duffy Lab</b>
Katya Deckelbaum	U. Michigan, 2023-present
Sooyun Christina Kim	U. Michigan, 2023-present
Cristian Huerta	U. Michigan, 2022-present
Taleah Nelson	U. Michigan, 2022-present
Jenna Petrie	U. Michigan, 2022-present
Anna Zhao	U. Michigan, 2022
Fiona Corcoran	U. Michigan, 2022-present
Noah Manuszak	U. Michigan, 2022 (REU Summer 2022)
Paige McCreadie	U. Michigan, 2022-present
Megan Vaandrager	U. Michigan, 2022
Morgan Bates	U. Michigan, 2022
Riley Jaye	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, 2021-2022 (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, 2019-2022 (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; <u>Biology High Honors</u>
Karana Wickens	U. Michigan, 2017-2018
Claire Freimark	U. Michigan, 2017-2019; <u>Biology Honors</u>
Justin Ramirez	U. Michigan, 2017-present (REU)
Haniyeh Zamani	U. Michigan, 2017-2018; <u>Biology Honors</u>
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; <u>Biology Honors</u>
Rachel DeCaluwe	U. Michigan, 2016-2017
Morgan Rondinelli	U. Michigan, 2016-present (2017 LSA Honors Summer Fellowship); <u>Biology Honors</u>
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; <u>Biology Honors</u>
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; <u>Biology Honors</u>
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 <u>Best REU Student Poster Award</u> 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, <u>Honors Thesis</u>
Hema Sundar	Georgia Tech, 2011-2012
Stephanie Hernandez	Georgia Tech, 2010-2012 (REU summer 2012) President's Undergraduate Research Award recipient, Research Option, <u>Honors Thesis</u>
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, <u>Honors Thesis</u>
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, <u>Honors Thesis</u>
Karla Van Rensburg	Georgia Tech, 2009-2010 Research Option, <u>Honors Thesis</u>
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

Georgia Tech, 2008

Natalie Huch Hardegree

Georgia Tech, 2008

President's Undergraduate Research Award recipient