

## JASON R. ROHR

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<http://scholar.google.com/citations?hl=en&user=yaRksUAAAAAJ>

### ***RESEARCH INTERESTS***

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Ecology, disease ecology, ecotoxicology, conservation, climate science

### ***EDUCATION***

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2002 Ph.D., Ecology & Behavior - Binghamton University, Advisor: Dale Madison  
1997 M.A. Teaching Biology - Binghamton University  
1996 B.A. Biology & Environmental Studies (double degree) - Binghamton University

### ***RELEVANT POSITIONS HELD***

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2016- Director of the Center for Infectious Disease Ecology Research (CIDER),  
University of South Florida

2015- Affiliate, Florida Climate Institute

2011- Associate Professor, University of South Florida  
Affiliations: Department of Integrative Biology, Patel School of Global Sustainability  
(2011-), Office of Sustainability (2011-)  

- Conduct ecological and environmental research, teach parasitology, animal behavior, and graduate-level introductory and advanced biological statistics

2007-2011 Assistant Professor, University of South Florida  
Affiliations: Department of Integrative Biology, Patel School of Global Sustainability  
(2011), Office of Sustainability (2011)  

- Conduct ecological and environmental research, teach parasitology lecture and lab and graduate-level introductory and advanced biological statistics

2004-2007 Research Associate, Penn State University, Collaborators/Advisors: Peter Hudson & Ke Chung Kim  
Affiliations: Center for Infectious Disease Dynamics, Penn State Institutes of the Environment, Department of Entomology, Center for BioDiversity Research  

- Investigated interactions among biodiversity, parasites, and anthropogenic change

2006 Instructor, Ecology 597B – Advances in Ecology, Penn State University  

- Co-taught a course addressing advances in ecology. My lectures emphasized advances in biodiversity and multivariate statistics

- 2006 Instructor, Entomology 497E – Insect Field Ecology and Natural History, Penn State University
- Co-taught an experiential field ecology course that highlighted insect dynamics, diversity, and adaptations
- 2005 Instructor, Entomology 595E – Insect Natural History, Penn State University
- Co-taught graduate-level field course on insect collection, identification, and biodiversity analyses
- 2002-2004 Post-doctoral Research Associate, University of Kentucky, Advisors: Philip Crowley and Andy Sih
- Investigated the effects of pesticides on freshwater biodiversity
- 2001 Instructor, Biol. 366 - Ecological and Behavioral Laboratory and Field Methods, Binghamton University
- Designed and instructed a course to educate 16 undergraduates on the processes of ecological and behavioral research
- 1994-1995 Intern, Monroe County Environmental Management Council
- Researched environmental topics and wrote numerous publications used by the Monroe County Legislature (listed below)

### ***PEER-REVIEWED CONTRIBUTIONS TO RESEARCH***

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(§undergraduate student, †graduate student, ‡postdoc, \*denotes equal first authorship)

#### **In press**

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111. Jennings, D.E.\* , Krupa, J.J., **Rohr, J.R.** 2016. Foraging modality determines the strength of competitive interactions among carnivorous plants, spiders, and toads. *Journal of Animal Ecology* DOI: 10.1111/1365-2656.12526
110. Ehram, M.§, Knutie, S.A.†, **Rohr, J.R.** 2016. The herbicide atrazine induces hyperactivity and compromises tadpole detection of predator chemical cues. *Environmental Toxicology and Chemistry* DOI: 10.1002/etc.3377

#### **2016**

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109. Jayawardena, U.A., **Rohr, J.R.**‡, Navaratne, A.N., Amerasinghe, P.H., Rajakaruna, R.S. 2016. Combined effects of pesticides and trematode infections on the hourglass tree frog *Polypedates cruciger*. *EcoHealth* 13: 111-122
108. **Rohr, J.R.**, Farag, A.M., Cadotte, M.W., Clements, W.H., Smith, J.R., Ulrich, C.P., Woods, R. 2016. Transforming ecosystems: When, where, and how to restore contaminated sites. *Integrated Environmental Assessment and Management* 12: 273-283
107. Madliger, C.L.\* , Cooke, S.J., Crespi, E.J., Funk, J.L., Hultine, K.R., Hunt, K.E., **Rohr, J.R.**, Sinclair, B.J., Suski, C.D., Willis, C.K.R., Love, O.P. 2016. Success stories and emerging themes in Conservation Physiology. *Conservation Physiology* 4: cov057  
doi:10.1093/conphys/cov057
106. Buck, J.C.\* , **Rohr, J.R.**, Blaustein, A.R. 2016. Effects of nutrient supplementation on host-pathogen dynamics of the amphibian chytrid fungus: a community approach. *Freshwater Biology* 61:110-120

**2015**

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105. Staley, Z.R.\*, Harwood, V.J., **Rohr, J.R.** 2015. A synthesis of the effects of pesticides on microbial persistence in aquatic ecosystems. *Critical Reviews in Toxicology* 45:813-836
104. Ortega, C.N.\*, Price, W., Campbell, T. **Rohr, J.R.** 2015. Acquired and introduced macroparasites of the invasive Cuban treefrog, *Osteopilus septentrionalis*. *International Journal for Parasitology: Parasites and Wildlife* 4:379-384
103. Civitello, D.J.†, Cohen, J.\*, Fatima, H.§, Halstead, N.T.\*, McMahon, T.A.†, Ortega, C.N.\*, Sauer, E.\*, **Rohr, J.R.** 2015. Reply to Salkeld et al.: Diversity-disease patterns are robust to study design, selection criteria, and publication bias. *Proceedings of the National Academy of the United States of America* 112: E6262 <http://www.pnas.org/content/112/46/E6262.full.pdf>
102. Civitello, D.J.†, Cohen, J.\*, Fatima, H.§, Halstead, N.T.\*, Liriano, J.§, McMahon, T.A.†, Ortega, C.N.\*, Sauer, E.\*, Sehgal, T.§, Young, S.\*, **Rohr, J.R.** 2015. Biodiversity inhibits parasites: broad evidence for the dilution effect. *Proceedings of the National Academy of the United States of America* 112:8667–8671 (**showcased by commentaries in PNAS and Science, double star by Faculty 1000, Altmetric score of 185, 99th percentile**)
101. Halstead, N.T.\*, Civitello, D.J.†, **Rohr, J.R.** 2015. Comparative toxicities of organophosphate and pyrethroid insecticides to aquatic macroarthropods. *Chemosphere* 135:265-271
100. Buck, J.C.\*, Scholz, K.I. **Rohr, J.R.**, Blaustein, A.R. 2015. Trophic dynamics in an aquatic community: Interactions among primary producers, grazers, and a pathogenic fungus. *Oecologia* 178:239–248
99. McMahon, T.A.\*, **Rohr, J.R.** 2015. Transition of chytrid fungus infection from mouthparts to hind limbs during amphibian metamorphosis. *EcoHealth* 12:188-193
98. Sears, B.F.\*, Snyder, P.W.§, **Rohr, J.R.** 2015. Host life-history and host-parasite syntopy predict behavioral resistance and tolerance to trematode parasites. *Journal of Animal Ecology* 84:625-636 (**Runner-up for best student paper award 2015 from the Disease Ecology Section of the Ecological Society of America**)
97. Boone, M.D., **Rohr, J.R.** 2015. The trouble with risk assessment lies at the foundation. *BioScience* 65:227-228
96. **Rohr, J.R.**, Civitello, D.J.†, Crumrine, P.W., Halstead, N.T.\*, Miller, A.D.§, Schotthoefer, A.M., Stenoien, C.§, Johnson, L.B., Beasley, V.R. 2015. Predator diversity, intraguild predation, and indirect effects drive parasite transmission. *Proceedings of the National Academy of the United States of America* 112:3008-3013 (Altmetric score of 67, 97th percentile)
95. Raffel, T.R.†, Halstead, N.T.\*, McMahon, T.A.\*, Davis, A.K., **Rohr, J.R.** 2015. Temperature variability and moisture synergistically interact to exacerbate an epizootic disease. *Proceedings of the Royal Society of London B* 282:20142039
94. Douglas, M.R.\* , **Rohr, J.R.**, Tooker, J.F. 2015. Neonicotinoid insecticide travels through a soil food chain, disrupting biocontrol of non-target pests and decreasing soybean yield. *Journal of Applied Ecology* 52:250-260 **Editor's Choice, cover photo, and commentary** (<http://www.journalofappliedecology.org/view/0/editorschoice521.html>; **Altmetric score of 159, 99th percentile and top 10 ever for the journal as of 6/2015**)

**2014**

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93. Staley, Z.R.\* , Senkbeil, J.K. §, **Rohr, J.R.**, Harwood, V.J. 2014. Agrochemicals indirectly increase survival of *E. coli* O157:H7 and indicator bacteria in freshwater by reducing ecosystem services. *Ecological Applications* 24:1945-1953
92. Civitello, D.J. †, **Rohr, J.R.** 2014. Disentangling the effects of parasite exposure and host susceptibility on parasite transmission: an illustration with the human zoonotic parasite, *Schistosoma mansoni*. *Journal of Animal Ecology* 83:1379-1386
91. Boone, M.D., Bishop, C.A., Boswell, L.A., Brodman, R., Burger, J., Davidson, C., Gochfeld, M., Hoverman, J.T., Neuman-Lee\*, L., Propper, C.R., Relyea, R.A., **Rohr, J.R.**, Rowe, C.L., Salice, C., Semlitsch, R.D., Sparling, D., Weir, S\*. 2014. The influence of industry: how conflicts of interest compromise pesticide regulation. *Bioscience* 64:917-922
90. Landis, W.G., **Rohr, J.R.**, Moe, S.J., Balbus, J.M., Clements, W., Fritz, A., Helm, R., Hickey, C., Hooper, M., Stahl, R. 2014. Global climate change and contaminants, a call to arms not yet heard? *Integrated Environmental Assessment and Management* 10:483-484
89. McMahon, T.A.\* , Sears, B.F.\* , Venesky, M.D. †, Brown, J.M.\* , Deutsch, K. §, Halstead, N.T.\* , Lentz, G. §, Tenouri, N. §, Young, S.\* , Civitello, D.J. †, Ortega, N.\* , Fites, J.S.\* , Reinert, L.K.\* , Rollins-Smith, L.A., Raffel, T.R. †, **Rohr, J.R.** ¥ 2014. Amphibians acquire resistance to live and dead fungus overcoming fungal immunosuppression. *Nature* 511:224-227 (**cover photo and featured cover story; Altmetric score of 286, 99th percentile**)
88. Halstead, N.T.\* , McMahon, T.A.\* , Johnson, S., Raffel, T.R. †, Romansic, J.M. †, Crumrine, P.W., **Rohr, J.R.** 2014. Community ecology theory predicts the effects of agrochemical mixtures on aquatic biodiversity and ecosystem properties. *Ecology Letters* 17:932-941
87. McMahon, T.A.\* , **Rohr, J.R.** 2014. Trypan blue dye is an effective and inexpensive way to determine the viability of *Batrachochytrium dendrobatidis* zoospores. *EcoHealth* 11:164-167
86. McKenzie, R.W. §, **Rohr, J.R.**, Motta, P.J. 2014. Orientation and patterning of the lateral line pore scales of the shortfin mako *Isurus oxyrinchus*. *Journal of Fish Biology* 84:1300-1311
85. Venesky, M.D. †, Liu, X., Sauer, E. §, **Rohr, J.R.** 2014. Linking manipulative experiments to field data to test the dilution effect. *Journal of Animal Ecology* 83:557-565
84. Venesky, M.D. †, Raffel, T.R, McMahon, T.A.\* , **Rohr, J.R.** 2014. Confronting inconsistencies in the amphibian-chytridiomycosis system: implications for disease management. *Biological Reviews* 89:477-483
83. Leslie, T.W., Biddinger, D.J., **Rohr, J.R.**, Hulting, A.J., Mortensen, D.A., Fleischer, S.J. 2014. Examining shifts in Carabidae assemblages across a forest-agriculture ecotone. *Environmental Entomology* 43:18-28

## 2013

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82. **Rohr, J.R.**, Raffel, T.R., Halstead, N.T.\* , McMahon, T.A.\* , Johnson, S.A., Boughton, R.K., Martin, L.B. 2013. Early-life exposure to an herbicide has enduring effects on pathogen-induced mortality. *Proceedings of the Royal Society of London B* 280:20131502 (Altmetric score of 72)
81. Sears, B.\* , Snyder, P. §, **Rohr, J.R.** 2013. No effects of two anesthetic agents on circulating leukocyte counts or resistance to trematode infections in larval amphibians. *Journal of Herpetology* 47:498-501

80. **Rohr, J.R.**, Raffel, T.R., Blaustein, A.R., Johnson, P.T.J., Paull, S.H., Young, S.\* 2013. Using physiology to understand climate-driven changes in disease and their implications for conservation. *Conservation Physiology* 1:cot022-cot022
79. Sears, B.F.\*, **Rohr, J.R.** 2013. Loss of trematode parthenitae in *Planorbella trivolvis* (Mollusca: Gastropoda). *Journal of Parasitology* 99:738-739
78. McMahon, T.A.\*, Romansic, J.M.†, **Rohr, J.R.** 2013. Non-monotonic and monotonic effects of pesticides on the pathogenic fungus *Batrachochytrium dendrobatidis* in culture and on tadpoles. *Environmental Science and Technology* 47:7958-7964
77. **Rohr, J.R.**, Palmer, B.D. 2013. Climate change, multiple stressors, and the decline of ectotherms. *Conservation Biology* 27:741-751
76. Li, Y., Cohen, J.M.\*, **Rohr, J.R.** 2013. A review and synthesis of the effects of climate change on amphibians. *Integrative Zoology* 8:145-161 **Ranked as one of the four best papers published in the journal in 2013** <https://mail.google.com/mail/u/0/?pli=1#inbox/1448714d25f3d5bf>
75. Sears, B.F.\*, Snyder, P.W.§, **Rohr, J.R.** 2013. Infection deflection: hosts control parasite location with behavior to improve tolerance. *Proceedings of the Royal Society of London B* 280: 20130759
74. Venesky, M.D.†, Hanlon, S.M.\*, Lynch, K.§, Parris, M.J., **Rohr, J.R.** 2013. Optimal digestion theory does not predict the effect of pathogens on intestinal plasticity. *Biology Letters* 9: 20130038
73. Liu, X., **Rohr, J.R.**, Li, Y. 2013. Climate, vegetation, introduced hosts and trade shape a global wildlife pandemic. *Proceedings of the Royal Society of London B* 280: 20122506 **double star recommendation by Faculty 1000**
72. Raffel, T.R.†, Romansic, J.M.†, Halstead, N.T.\*, McMahon, T.A.\*, Venesky, M.D.†, **Rohr, J.R.\*** 2013. Disease and thermal acclimation in a more variable and unpredictable climate. *Nature Climate Change* 3: 146-151 (**featured in News and Views**, article by Ross Alford: <http://www.nature.com/nclimate/journal/v3/n2/full/nclimate1812.html>; Altmetric score of 38, 97th percentile)
71. McMahon, T.A.\*, Brannelly, L.A.\*, Chatfield, M.W.H.†, Johnson, P.T.J., Joseph, M.B.\*, McKenzie, V.J., Richards-Zawacki, C.L., Venesky, M.D.†, **Rohr, J.R.** 2013. Chytrid fungus *Batrachochytrium dendrobatidis* has nonamphibian hosts and releases chemicals that cause pathology in the absence of infection. *Proceedings of the National Academy of Sciences of the United States of America* 110: 210-215 (Altmetric score of 58, 98th percentile)
70. **Rohr, J.R.**, Johnson, P., Hickey, C.W., Helm, R., Fritz, A., Brasfield, S. 2013. Implications of global climate change for natural resource damage assessment, restoration, and rehabilitation. *Environmental Toxicology and Chemistry* 32: 93-101

## 2012

69. Sears, B.F.\*, Schlunk, A.D.§, **Rohr, J.R.** 2012. Do parasitic trematode cercariae demonstrate a preference for susceptible host species? *PLoS ONE* 7(12): e51012
68. Staley, Z.R.\*, Senkbeil, J.K.§, **Rohr, J.R.**, Harwood, V.J. 2012. Lack of direct effects of agrochemicals on zoonotic pathogens and fecal indicator bacteria. *Applied and Environmental Microbiology* 78: 8146-8150

67. Koprivnikar, J., Marcogliese, D.J., **Rohr, J.R.**, Orlofske, S.A.\* , Raffel, T.R.†, Johnson, P.T.J. 2012. Macroparasite infections of amphibians: What can they tell us? *EcoHealth* 9: 342-360
66. Jennings, D.E.\* , Edwards, G.B. **Rohr, J.R.** 2012. Associations between ground-surface spiders and other arthropods in mesic flatwoods. *Florida Entomologist* 95: 290-296
65. Venesky, M.D.†, Mendelson, J.R., Sears, B.F.\* , Stiling, P.D., **Rohr, J.R.** 2012. Selecting for tolerance against pathogens and herbivores to enhance the success of reintroduction and translocation programs. *Conservation Biology* 26: 586-592
64. McMahon, T.A.\* , Halstead, N.T.\* , Johnson, S., Raffel, T.R.†, Romansic, J.M.†, Crumrine, P.W., **Rohr, J.R.** 2012. Fungicide-induced declines of freshwater biodiversity modify ecosystem functions and services. *Ecology Letters* 15: 714-722
63. **Rohr, J.R.**, Martin, L.B. 2012. Type I error is unlikely to hinder review recycling: a reply to Montesinos. *Trends in Ecology and Evolution* 27: 312-313
62. **Rohr, J.R.**, Halstead, N.T.\* , Raffel, T.R.† 2012. The herbicide atrazine, algae, and snail populations. *Environmental Toxicology and Chemistry* 31: 973-976
61. **Rohr, J.R.**, Martin, L.B. 2012. Reduce, reuse, recycle scientific reviews. *Trends in Ecology and Evolution* 27: 192-193
60. Johnson, P.T.J., **Rohr, J.R.**, Hoverman, J.T. Kellermanns, E., Bowerman, J., Lunde, K.B. 2012. Living fast and dying of infection: Host life history drives interspecific variation in infection and disease risk. *Ecology Letters* 15: 235-242 **recommended by Faculty 1000**
59. Jennings, D.E.\* , Congelosi, A.M.§, **Rohr, J.R.** 2012. Insecticides reduce survival and the expression of traits associated with carnivory of carnivorous plants. *Ecotoxicology* 21: 569-575

## 2011

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58. Staley, Z.\* , **Rohr, J.R.**, Harwood, V.J. 2011. A test of direct and indirect effects of agrochemicals on the survival of fecal indicator bacteria. *Applied and Environmental Microbiology* 77: 8765-8774
57. Sears, B.F.\* , **Rohr, J.R.**, Allen, J.E., Martin, L.B. 2011. The economy of inflammation: when is less more? *Trends in Parasitology* 27: 382-387
56. McMahon, T.A.\* , Halstead, N.T.\* , Johnson, S., Raffel, T.R.†, Romansic, J.M.†, Crumrine, P.W., Boughton, R.K., Martin, L.B., **Rohr, J.R.** 2011. The fungicide chlorothalonil is nonlinearly associated with corticosterone levels, immunity, and mortality in amphibians. *Environmental Health Perspectives* 119: 1098-1103
55. Lekberg, Y., Meadow, J., **Rohr, J.R.**, Redecker, D., Zabinski, C.A. 2011. Importance of dispersal and thermal environment for mycorrhizal communities: Lessons from Yellowstone National Park. *Ecology* 92: 1292-1302
54. Jennings, D.E.\* , **Rohr, J.R.** 2011. A review of the conservation threats to carnivorous plants. *Biological Conservation* 144: 1356-1363

53. Schotthoefer, A.M., **Rohr, J.R.**, Cole, R.A., Koehler, A.V., Johnson, C.M., Johnson, L.B., Beasley, V.R. 2011. Effects of wetland and landscape variables on parasite communities of *Rana pipiens*: links to anthropogenic changes. *Ecological Applications* 21: 1257-1271
52. Romansic, J.M.<sup>†</sup>, Johnson, P.T.J., Searle, C.L.\* , Johnson, J.E., Tunstall, T.\* , Han, B.A., **Rohr, J.R.**, Blaustein, A.R. 2011. Individual and combined effects of multiple pathogens on Pacific treefrogs. *Oecologia* 166: 1029-1041
51. **Rohr, J.R.**, Dobson, A.P., Johnson, P.T.J., Kilpatrick, A.M., Paull, S.H.\* , Raffel, T.R., Ruiz-Moreno, D., Thomas, M.B. 2011. Frontiers in climate change-disease research. *Trends in Ecology and Evolution* 26: 270-277 (invited submission)
50. Raffel, T.R.<sup>†</sup>, Lloyd-Smith, J.O., Sessions, S.K., Hudson, P.J., **Rohr, J.R.** 2011. Does the early frog catch the worm? Disentangling potential drivers of a parasite age-intensity relationship in tadpoles. *Oecologia* 165: 1031-1042
49. **Rohr, J.R.**, Halstead, N.T.\* , Raffel, T.R.<sup>†</sup> 2011. Modelling the future distribution of the amphibian chytrid fungus: The influence of climate and human-associated factors. *Journal of Applied Ecology* 48: 174-176 (invited submission)
48. **Rohr, J.R.**, Sesterhenn, T.\* , Stieha, C.\* 2011. Will climate change reduce the effects of a pesticide on amphibians?: Partitioning effects on exposure and susceptibility to pollution. *Global Change Biology* 17: 657-666

## 2010

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47. Raffel, T.R.<sup>†</sup>, Michel, P.J.<sup>§</sup>, Sites, E.W.<sup>§</sup>, **Rohr, J.R.** 2010. Does temperature drive chytrid infections in newt populations? Associations with leaf litter, vegetation and shade. *EcoHealth* 7: 526-536
46. Raffel, T.R.<sup>†</sup>, Johnson, P.T.J., Paull, S.H.\* , **Rohr, J.R.** 2010. Symposium 16, Towards a general theory for how climate change will affect infectious disease. *Bulletin of the Ecological Society of America* 91: 467-473
45. Staley, Z.\* , **Rohr, J.R.**, Harwood, V.J. 2010. The effect of agrochemicals on indicator bacteria densities in outdoor mesocosms. *Environmental Microbiology* 12: 3150-3158
44. Leslie, T.W.\* , Biddinger, D.J., **Rohr, J.R.**, Fleischer, S.J. 2010. Conventional and seed-based insect management strategies similarly influence non-target coleopteran communities in maize. *Environmental Entomology* 39: 2045-2055
43. **Rohr, J.R.**, Raffel, T.R.<sup>†</sup>, Hall, C.<sup>§</sup> 2010. Developmental variation in resistance and tolerance in a multi-host-parasite system. *Functional Ecology* 24: 1110-1121
42. Jennings, D.E.\* , Krupa, J.J., Raffel, T.R.<sup>†</sup>, **Rohr, J.R.** 2010. Evidence for competition between carnivorous plants and spiders. *Proceedings of the Royal Society B: Biological Sciences* 277: 301-308 **highlighted in Science Magazine**
41. Raffel, T.R.<sup>†</sup>, Hoverman, J.T.<sup>†</sup>, Halstead, N.T., Michel, P.<sup>§</sup>, **Rohr, J.R.** 2010. Parasitism in a community context: Trait-mediated interactions with competition and predation. *Ecology* 91: 1900-1907
40. **Rohr, J.R.**, McCoy, K.A.<sup>†</sup> 2010. Preserving environmental health and scientific credibility: A practical guide to reducing conflicts of interest. *Conservation Letters* 3: 143-150

39. Martin, L.B., Hopkins, W.A., Mydlarz, L.D., **Rohr, J.R.** 2010. The effects of anthropogenic global change on immune functions and disease resistance. *Annals of the New York Academy of Sciences: The Year in Ecology and Conservation Biology* 1195: 129-148 (invited submission)
38. **Rohr, J.R.**, Raffel, T.R.<sup>†</sup> 2010. Linking global climate and temperature variability to widespread amphibian declines putatively caused by disease. *Proceedings of the National Academy of Sciences of the United States of America* 107: 8269-8274
37. **Rohr, J.R.**, McCoy, K.A.<sup>†</sup> 2010. A qualitative meta-analysis reveals consistent effects of atrazine on freshwater fish and amphibians. *Environmental Health Perspectives* 118: 20-32

## 2009

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36. Raffel, T.R.<sup>†</sup>, Sheingold, J.L.<sup>§</sup>, **Rohr, J.R.** 2009. Lack of pesticide toxicity to *Echinostoma trivolvis* eggs and miracidia. *Journal of Parasitology* 95: 1548-1551
35. **Rohr, J.R.**, Mahan, C.G., Kim, K. 2009. Response of arthropod biodiversity to foundation species declines: the case of the eastern hemlock. *Forest Ecology and Management* 258: 1503-1510
34. Clements, W.H., **Rohr, J.R.** 2009. Community responses to contaminants: Using basic ecological principles to predict ecotoxicological effects. *Environmental Toxicology and Chemistry* 28: 1789-1800
33. **Rohr, J.R.**, Raffel, T.R.<sup>†</sup>, Sessions, S.K. 2009. Digenetic trematodes and their relationship to amphibian declines and deformities. In: Amphibian Biology. vol. 8. Amphibian Decline: Diseases, Parasites, Maladies, and Pollution. series editor Heatwole, H. & Wilkinson, J.W. Surrey Beatty & Sons, Chipping Norton, NSW, Australia, pp 3067-3088
32. **Rohr, J.R.**, Raffel, T.R.<sup>†</sup>, & Swan, A.<sup>§</sup>, Hudson, P.J. 2009. Parasites, info-disruption, and the ecology of fear. *Oecologia* 159: 447-454
31. Delphia, C.M.\* , **Rohr, J.R.**, Stephenson, A.G., De Moraes, C.M., Mescher, M.C. 2009. Effects of genetic variation and inbreeding on volatile production in a field population of horsetnettle. *International Journal of Plant Sciences* 170: 12-20
30. Raffel, T.R.<sup>†</sup>, Le Gros, R.J.<sup>§</sup>, Love, B.C., **Rohr, J.R.**, Hudson, P.J. 2009. Parasite age-intensity relationships in red-spotted newts: Does immune memory influence salamander disease dynamics? *International Journal for Parasitology* 39: 231-241

## 2008

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29. **Rohr, J.R.**, Raffel, T.R.<sup>†</sup>, Romansic, J.<sup>†</sup>, McCallum, H., Hudson, P.J. 2008. Evaluating the links between climate, disease spread, and amphibian declines. *Proceedings of the National Academy of Sciences of the United States of America*. 105: 17436-17441
28. **Rohr, J.R.**, Schotthoefer, A.M., Raffel, T.R.<sup>†</sup>, Carrick, H.J., Halstead, N., Hoverman, J.T.<sup>†</sup>, Johnson, C.M., Johnson, L.B., Lieske, C., Piwoni, M.D., Schoff, P.K., Beasley, V.R. 2008. Agrochemicals increase trematode infections in a declining amphibian species. *Nature* 455: 1235-1239 **Featured on the cover**
27. Raffel, T.R.<sup>†</sup>, Martin, L.B., **Rohr, J.R.** 2008. Parasites as predators: unifying natural enemy ecology. *Trends in Ecology and Evolution* 23: 610-618 (invited submission)

26. **Rohr, J.R.**, Raffel, T.R.<sup>†</sup>, Sessions, S.K., Hudson, P.J. 2008. Understanding the net effects of pesticides on amphibian trematode infections. *Ecological Applications* 18: 1743-1753
25. Tooker, J.F.<sup>†</sup>, **Rohr, J.R.**, Abrahamson, W.G., De Moraes, C.M. 2008. Gall insects can avoid and alter indirect plant defenses. *New Phytologist* 178: 657-671 **A featured article with an accompanying commentary**

## 2007

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24. **Rohr, J.R.**, Kim, K., Mahan, C. 2007. Developing a monitoring program for invertebrates: guidelines and a case study. *Conservation Biology* 21: 422-433
23. Leslie, T.W.\*, Hoheisel, G.A.\*, Biddinger, D.J., **Rohr, J.R.**, Fleischer, S.J. 2007. Transgenes sustain epigeal biodiversity in diversified vegetable farm systems. *Environmental Entomology* 36: 234-244
22. Lekberg, Y.<sup>†</sup>, Koide, R.T., **Rohr, J.R.**, Aldrich-Wolfe, L., & Morton, J.B. 2007. Role of niche theory and dispersal in the composition of arbuscular mycorrhizal fungal communities. *Journal of Ecology* 95: 95-105

## 2006

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21. **Rohr, J.R.**, Kerby, J.\*, Sih, A. 2006. Community ecology theory as a framework for predicting contaminant effects. *Trends in Ecology and Evolution* 21: 606-613 (invited submission) **Featured on the cover**
20. Raffel, T.R.<sup>†</sup>, **Rohr, J.R.**, Kiesecker, J.M., Hudson, P.J. 2006. Negative effects of changing temperature on amphibian immunity under field conditions. *Functional Ecology* 20: 819-828
19. Dobson, A.P., Cattadori, I., Holt, R.D., Ostfeld, R.S., Keesing, F., Krichbaum, K.\* , **Rohr, J.R.**, Perkins, S.E., Hudson, P.J. 2006. Sacred cows and sympathetic squirrels: The importance of biological diversity to human health. *PLoS Medicine* 3: 714-718
18. **Rohr, J.R.**, Sager, T.\* , Sesterhenn, T.\* , Palmer, B.D. 2006. Exposure, post-exposure, and density-mediated effects of atrazine on amphibians: Breaking down net effects into their parts. *Environmental Health Perspectives* 114: 46-50 **Featured on the cover**

## 2005

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17. **Rohr, J.R.**, Crumrine, P.\* 2005. Effects of an herbicide and an insecticide on pond community structure and processes. *Ecological Applications* 15: 1135-1147
16. **Rohr, J.R.**, Palmer, B.D. 2005. Aquatic herbicide exposure increases salamander desiccation risk eight months later in a terrestrial environment. *Environmental Toxicology and Chemistry* 24: 1253-1258
15. **Rohr, J.R.**, Park, D.<sup>†</sup>, Sullivan, A.M.\* , McKenna, M.\* , Propper, C.R., Madison D.M. 2005. Operational sex ratio in newts: field responses and characterization of a constituent chemical cue. *Behavioral Ecology* 16: 286-293

## 2004

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14. Sullivan, A.M.\*, Madison, D.M., **Rohr, J.R.** 2004. Variation in the antipredator responses of three sympatric plethodontid salamanders to predator-diet cues. *Herpetologica* 60: 401-408
13. **Rohr, J.R.**, Elskus, A.A., Shepherd, B.S., Crowley, P.H., McCarthy, T.M.\*, Niedzwiecki, J.H.\*, Sager, T.\*, Sih, A., Palmer, B.D. 2004. Multiple stressors and salamanders: Effects of an herbicide, food limitation, and hydroperiod. *Ecological Applications* 14: 1028-1040

### **2003**

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12. **Rohr, J.R.**, Madison, D.M., Sullivan, A.M.\* 2003. On temporal variation and conflicting selection pressures: A test of theory using newts. *Ecology* 84: 1816-1826
11. **Rohr, J.R.**, Elskus, A.A., Shepherd, B.S., Crowley, P.H., McCarthy, T.M.\*, Niedzwiecki, J.H.\*, Sager, T.\*, Sih, A., Palmer, B.D. 2003. The lethal and sublethal effects of atrazine, carbaryl, endosulfan, and octylphenol on the streamside salamander, *Ambystoma barbouri*. *Environmental Toxicology and Chemistry* 22: 2385-2392
10. Sullivan, A.M.\*, Madison, D.M., & **Rohr, J.R.** 2003. Behavioural responses by red-backed salamanders to conspecific and heterospecific cues. *Behaviour* 140: 553-564
9. **Rohr, J.R.**, Madison, D.M. 2003. Dryness increases predation risk in efts: Support for an amphibian decline hypothesis. *Oecologia* 135: 657-664

### **2002**

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8. **Rohr, J.R.** 2002. Temporal and spatial variation in newt (*Notophthalmus viridescens*) response to non-injured and injured conspecifics. Dissertation, Binghamton University
7. **Rohr, J.R.**, Madison, D.M. 2002. *Notophthalmus viridescens* (Eastern Red-Spotted Newt) Predation. *Herpetological Review* 33: 122-123
6. **Rohr, J.R.**, Madison, D.M., Sullivan, A.M.\* 2002. The ontogeny of chemically-mediated antipredator behaviours in newts (*Notophthalmus viridescens*): Responses to injured and non-injured conspecifics. *Behaviour* 139: 1043-1060
5. **Rohr, J.R.**, Madison, D.M., Sullivan, A.M.\* 2002. Sex differences and seasonal trade-offs in response to injured and non-injured conspecifics in red-spotted newts, *Notophthalmus viridescens*. *Behavioral Ecology and Sociobiology* 52: 385-393
4. Madison, D.M., Sullivan, A.M.\*, Maerz, J.C.\*, McDarby, J.H., **Rohr, J.R.** 2002. A complex, cross-taxon, chemical releaser of anti-predator behavior in amphibians. *Journal of Chemical Ecology* 28: 2251-2262

### **2001 and before**

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3. **Rohr, J.R.**, Madison, D.M. 2001. A chemically-mediated trade-off between predation risk and mate search in newts. *Animal Behaviour* 62: 863-869
2. **Rohr, J.R.**, Madison, D.M. 2001. Do newts avoid conspecific alarm substances: the predation hypothesis revisited. In: *Chemical Signals in Vertebrates* (Ed. by Marchlewska-Koj, L. & Müller-Schwarze, D.), NY: Kluwer Academic/Plenum Publishers. 295-304
1. **Rohr, J.R.** 1997. Who likes who: Helping students understand the scientific method. *Engaging Educators Across the Disciplines* 1997: 28-32

### **Co-authored Technical Reports:**

- Monroe County Environmental Management Council, 1997. The use of road deicing salt on state roads in Monroe County, Monroe County, NY
- Monroe County Environmental Management Council, 1996. A historical review of the Monroe County Environmental Management Council: 25<sup>th</sup> Anniversary, Monroe County, NY
- Monroe County Environmental Management Council, 1996. Preservation of environmentally sensitive areas in Monroe County, Monroe County, NY
- Monroe County Environmental Management Council, 1995. Survey of waste hauler practices in Monroe County, Monroe County, NY

**Submitted** (pre-prints available upon request):

- Cohen, J.\*, Civitello, D.J.<sup>†</sup>, Brace, A.J.\*, Feichtinger, E\*, Ortega, N.\*, Richardson, J.C.\*, Sauer, E.L.\*, Liu, X., **Rohr, J.R.** Spatial scale modulates the strength of ecological processes driving disease distributions. *Proceedings of the National Academy of Sciences of the United States of America* (in revisions)
- Rohr, J.R.**, Civitello, D.J.<sup>†</sup>, Cohen, J.\*, Roznik, E.A.<sup>†</sup>, Sinervo, B., Dell, A.I. Acclimation rate and thermal breadth predicts risk from climate change. *Nature Climate Change* (in review)
- Rohr, J.R.**, Cadotte, M.W., Clements, W.H. Synthesizing theories in the science of ecosystem restoration. *Science*
- Rohr, J.R.**, Salice, C.J., Nisbet, R.M. The pros and cons of ecological risk assessment based on data from different levels of biological organization. *Critical Reviews in Toxicology* (in revisions)
- De Laender, F., **Rohr, J.R.**, Ashauer, R., Baird, D.J., Berger, U., Eisenhauer, N., Grimm, V., Hommen, U., Maltby, L., Meliàn, C.J., Pomati, F., Roessink, I., Radchuk, V., Van den Brink, P.J. Re-introducing environmental change drivers in biodiversity-ecosystem functioning research. *Trends in Ecology and Evolution* (in review)
- Stutz, W.E., Blaustein, A.R., Briggs, C.J., Hoverman, J.T., **Rohr, J.R.**, Johnson, P.T.J. A framework to understand parasite interactions within hosts and across scales with an application to emerging infections of amphibians. *Ecology Letters* (revisions requested)
- Gabor, C.R., Roznik, E.A., Knutie, S.A., **Rohr, J.R.** Negative effects of contaminants and disease on amphibians are generally not mediated by the stress hormone corticosterone. *Ecological Applications* (in review)
- Sauer, E.L., Sperry, J.H., **Rohr, J.R.** An efficient and inexpensive method for measuring long-term behavioral thermoregulation. *Journal of Thermal Biology* (in review)
- Bradley, P.W.\* , Brawner, M.D.<sup>§</sup>, Raffel, T.R., **Rohr, J.R.**, Olson, D.H., Blaustein, A.R. Shifts in temperature influence the fungal disease chytridiomycosis in tadpoles. *Functional Ecology* (in review)
- Young, S. Nayak, B. Sun, S. Badgely, B., **Rohr, J.R.**, Harwood, V.J. Vancomycin resistant enterococci and changes in bacterial community structure associated with a residential sewage spill. *Applied & Environmental Microbiology* (in review)
- Knutie, S.A., Wilkinson, C.L., Ortega, N., **Rohr, J.R.** Host resistance and tolerance of parasitic gut worms depend on resource availability. *American Naturalist*
- Boruta, M.\* , **Rohr, J.R.**, Martin, L.B. Developmental stressors induce mate-matching in female zebra finches. *Behavioral Ecology*
- McCoy, M.W.<sup>†</sup>, Martin, L.B., **Rohr, J.R.** Quantifying resistance and tolerance. *PeerJ*
- McMahon, T.A., Boughton, R.K., Martin, L.B., **Rohr, J.R.** Exposure to an herbicide non-linearly affected corticosterone production in tadpoles. *Archives of Environmental Contamination and Toxicology*

**To be Submitted within a Month** (fully written pre-prints available upon request):

Taylor, R.A., Mordecai, E., **Rohr, J.R.**, Johnson, L.R. Mathematical models are a powerful method to understand and control the spread of Huanglongbing.

## ***GRANTS AND FELLOWSHIPS***

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### **Awarded:**

- \$ 6,500 Research Experience for Undergraduates supplement to EID: Effects of temperature on vector-borne disease transmission: integrating theory with empirical data, NSF
- \$ 30,133 Do host-microbiome symbioses influence the effect of pollution on parasite susceptibility? British Ecological Society (BES) Large Research Grant (PI at USF: Jason Rohr) 9/2015-8/2016 written by my postdoc Sarah Knutie who was the actual PI on the submission to BES
- \$2,448,691 EID: Using community ecology theory to predict the effects of agricultural expansion and intensification on infections of humans: implications for sustainable agriculture, NIH (PI: Jason R. Rohr, co-PI: Justin Remais, Giulio De Leo, Sanna Sokolow) 7/2015-6/2020, USF portion was \$934,680
- \$2,500,000 EID: Effects of temperature on vector-borne disease transmission: integrating theory with empirical data, NSF (PI: Erin Mordecai, co-PI: Jason R. Rohr, Leah Johnson, Sadie Ryan, Matthew Thomas, Van Savage) 8/2015- 7/2020, USF portion was \$457,435
- \$ 162,642 Physiologically-explicit epidemiology: Linking size and energetics of snail hosts to human risk of schistosomiasis, NIH Ruth Kirchstein Fellowship (PI: Rohr, but awarded to fund my postdoc David Civitello who wrote grant) 2/2015-2/2017
- \$ 150,000 Proposal to study the effects of herbicide application on ancillary plant species in the Upper St. Johns River Basin Marshes, St Johns River Water Management District (PI: Jason R. Rohr) 2/2015-2/2018 3 year project with \$50K annual contracts
- \$ 58,750 Thermoregulatory behavior of southeastern amphibians following exposure to the chytrid fungus *Batrachochytrium dendrobatidis*, Department of the Army, South Florida- Caribbean Cooperative Ecosystems Studies Unit (PI: Jason R. Rohr, Co-PI: Jinelle Sperry) 6/1/2014-5/31/2015
- \$ 734,346 Building capacity to train the next generation of under-represented and cross-disciplinary scholars of agricultural sustainability and global food security, USDA (PI: Jason R. Rohr, Co-PI: Earl McCoy, Steven Johnson, Sudeep Vyapari) 9/1/2013-8/31/2016
- \$1,975,154 EID: Disease in complex communities: how multi-host, multi-pathogen interactions drive infection dynamics, NIH (Co-PI: Jason R. Rohr, PI: Cherie Briggs, Co-PIs: Pieter Johnson, Jason Hoverman, Andrew Blaustein) 9/1/2013-6/30/2017; Rohr's portion \$248,789
- \$ 900,000 The influence of temporal and spatial scales on drivers of host-parasite interactions, NSF Macrosystem (PI: Jason R. Rohr, Co-PI: Barry Sinervo) 4/1/2013-3/31/2017

- \$ 374,938 EARLY CAREER: The hazards of extreme climatic events: Predicting impacts on water quality and wildlife and human disease risk, US EPA (PI: Jason R. Rohr) 5/2012-4/2015
- \$ 241,000 USDA National Needs Graduate Program Proposal: Training the next generation of under-represented and cross-disciplinary scholars at the frontiers of agricultural sustainability and biosecurity, USDA (PI: Jason R. Rohr, Co-PIs: Steven Johnson, Valerie Harwood, Henry Mushinsky) 1/2012-12/2017
- \$ 50,000 Transformational reductions in human schistosomiasis by modifying agricultural practices, University of Florida IFAS Research Innovation Grants (PIs: Beilinski Santos, Steven Johnson, Jason R. Rohr [author]) 10/2010-9/2011
- \$ 9,950 How important is phylogeny in dictating the strength of competition?, University of South Florida Internal Grant (PI: Jason R. Rohr) 5/2009-4/2010
- \$ 398,946 Predicting the effects of agricultural practices on waterborne human pathogens, livestock helminthes, and the health of rural water-bodies, USDA, (PIs: Jason R. Rohr, Valerie Harwood) 12/2008-11/2012
- \$ 599,353 Understanding the role of climate change and land use modifications in facilitating pathogen invasions and declines of ectotherms, US EPA, (PIs: Jason R. Rohr and Andrew Blaustein, Co-PI: Thomas R. Raffel) 9/2008-8/2012
- \$ 13,804 ROA supplement to Collaborative Research: Community ecology as a framework for understanding disease dynamics, NSF, (PIs: Jason R. Rohr, Patrick Crumrine) 5/2007-8/2007
- \$ 7,500 REU supplement to Collaborative Research: Community ecology as a framework for understanding disease dynamics, NSF, (PIs: Jason R. Rohr, John Romanic, Tom R. Raffel) 5/2008-8/2008
- \$ 6,680 REU Supplement to Collaborative Research: Community ecology as a framework for understanding disease dynamics, NSF, (PIs: Jason R. Rohr, Peter J. Hudson, Tom R. Raffel) 4/2007-8/2007
- \$ 398,899 Using food web theory to predict ecosystem responses to agrochemicals, USDA, (PI: Jason R. Rohr; Co-PI: Peter J. Hudson) 10/2006-9/2011
- \$ 450,138 Collaborative Research: Community ecology as a framework for understanding disease dynamics, NSF, (PIs: Jason R. Rohr and Stanley K. Sessions; Co-PI: Peter J. Hudson) 1/2006-12/2009
- \$ 89,996 Developing an invertebrate diversity monitoring and management plan for Gettysburg National Military Park, National Park Service, (PI: Ke Chung Kim, Co-PI: Jason R. Rohr) 9/2005-8/2007
- \$ 14,974 Linking soil microbial diversity to seasonality of root production and root age, Penn State University Seed Grant, (PIs: Roger T. Koides, Co-PIs: David M Eissenstat and Jason R. Rohr) 1/2006-12/2006
- \$ 94,888 Biodiversity inventory of Fort Indiantown Gap National Guard and Training Center, Department of Military and Veteran Affairs, (PI: Ke Chung Kim, Co-PI: Jason R. Rohr) 7/2005-6/2006

- \$ 62,645 Biodiversity assessment and monitoring of Fort Indiantown Gap National Guard and Training Center, Department of Military and Veteran Affairs, (PI: Ke Chung Kim, Co-PI: Jason R. Rohr) 7/2005-6/2006
- \$ 1,000 The impacts of disease on Kentucky's declining amphibians, Kentucky Academy of Science Athey Grant, 2004-2005 (PI: Jason R. Rohr, Co-PI: Tim Sesterhenn)
- \$ 9,600 Dissertation Fellowship for the 2001-2002 academic year
- \$ 2,000 Binghamton University Summer Research Grant, 2000
- \$ 1,350 Sum of five travel grants, 2000-2002

**Pending** (in review or to be resubmitted):

- \$1,398,072 Collaborative Research: MSB-FRA: Global climate change, phenological shifts, and effect on species interactions across scales, NSF (PI: Jason R. Rohr, co-PIs: Marc Lajeunesse, Anthony Dell)
- \$1,681,192 Strategic, data-driven modeling for the design and assessment of HLB control strategies, USDA (PI: Jason R. Rohr, co-PIs: Leah Johnson, Phil Stansly)
- \$ 547,692 NSF: Collaborative Research: Managing epidemics in wildlife with acquired resistance. NSF (PI: Jason R. Rohr, Co-PI: David J. Civitello, Taegan McMahon, Pieter Johnson, Anna Savage)
- \$ 268,577 The Impact of Climate Change on Oil and Dispersant Toxicity. Gulf of Mexico Research Initiative (PI: Jason R. Rohr, Co-PI: Peter Stiling, Nancy Smith, Dana Wetzel)

***PRESENTATIONS***

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**Invited Talks and Seminars** (Rohr was presenter unless noted):

- 2016 Hopkins Marine Station, Stanford University, Pacific Grove, CA (scheduled for May 11)  
Stanford University, Department of Biology, Stanford, CA (scheduled for May 10)  
University of Florida, Environmental and Global Health Seminar series, Gainesville, FL  
Gordon Research Conference: "New Frontiers in Understanding Predator-Prey Interactions in a Human-Altered World", Ventura, CA
- 2015 Cary Institute of Ecosystem Studies, Millbrook, NY  
Indiana University, Department of Biology, Bloomington, IN (***graduate student selection as invited speaker***)  
Pandemic Prediction and Forecasting Science and Technology Working Group, Washington D.C. "A pragmatic approach to forecasting dengue incidence", September 2015. Johnson, L. (presenter), Gramacy, R., Rohr, J., Cohen, J., Mordecai, E., Murdoch, C., Ryan, S., Stewart, A., Weikel, D.  
Ecological Society of America National Meeting, Baltimore, MA (two invited talks)  
Ecological Society of America National Meeting, Baltimore, MA (two invited talks)

- University of South Florida, Trail Blazers Lecture Series, Tampa, FL  
 Society for Integrative and Comparative Biology Meeting, West Palm Beach, FL,  
 Special Symposium “Physiology in changing landscapes: an integrative  
 perspective for conservation biologists”
- 2014 German Center for Integrative Biodiversity Research (iDiv), Leipzig University,  
 Germany  
 Society for Environmental Toxicology and Chemistry Meeting, Vancouver, CA,  
 Special Symposium “Ecological Models for Assessing the Risks of Chemicals and  
 Other Stressors – Part 2: From Individuals to Populations”  
 Society for Environmental Toxicology and Chemistry Meeting, Vancouver, CA,  
 Platform Session “Restoration of Impaired Ecosystems: An Ounce of Prevention  
 or a Pound of Cure”  
 Lund University, Sweden, Biology Department, (**graduate student selection as  
 invited speaker**)  
 US. Fish and Wildlife Service Conservation Science Webinar Series  
 University of Tennessee, Center for Wildlife Health  
 Clearwater Christian College, Department of Biology
- 2013 Joint scientific meeting of the Society of Wetland Scientists South Atlantic Chapter,  
 Florida Association of Environmental Soil Scientists, and Southwest Chapter of  
 the Florida Association of Environmental Professionals  
 EPA STAR Research Forum: Extreme Event Impacts on Air Quality and Water  
 Quality with a Changing Global Climate, Arlington, VA  
 University of Illinois Urbana-Champaign, Animal Biology Department  
 University of Florida, Wildlife Ecology and Conservation Department
- 2012 University of California at Santa Cruz, Ecology and Evolutionary Biology Department  
 Emory University, Department of Environmental Health and the Department of  
 Environmental Studies  
 7<sup>th</sup> World Congress of Herpetology, Vancouver, Canada; Symposium: “Amphibians  
 and reptile ecotoxicology - Interactions among contaminants and natural  
 stressors”  
 7<sup>th</sup> World Congress of Herpetology, Vancouver, Canada; Symposium: “When do  
 infectious diseases pose conservation threats to reptiles and amphibians?”  
 UCLA, Department of Ecology and Evolutionary Biology  
 Land Grant and Sea Grant National Water Conference, Portland, OR (given by Co-  
 PI)  
 University of South Florida, Science and Society Symposium (campus-wide event)
- 2011 Society for Environmental Toxicology and Chemistry Meeting, Boston, Platform  
 Session “Fungicides: Occurrence, Environmental Fate, and Toxicity”  
 Society for Environmental Toxicology and Chemistry Meeting, Boston, Platform  
 Session “Amphibian and Reptile Ecotoxicology: Interactions Among  
 Contaminants and Other Stressors”  
 University of South Florida, Environmental Research Interdisciplinary Symposium  
 Virginia Tech University, Ecology and Evolutionary Biology Seminar Series  
 MI H2Objective Conference: Research Shaping Michigan’s Water Future, Michigan’s  
 University Research Corridor Symposium Series, Detroit, MI  
 STAR Grant Progress Review Meeting, Washington, D.C.

- Society for Environmental Toxicology and Chemistry sponsored Pellston Workshop on the “Influence of Global Climate Change On the Scientific Foundation and Application of Environmental Toxicology and Chemistry”, Racine, WI  
Tulane University, Department of Ecology and Evolutionary Biology  
University of South Florida, College of Public Health, Global Health Seminar Series  
USDA Water and Watershed & Agricultural Water Science Program Project Directors Meeting, Washington, DC, presented by graduate student
- 2010 Illinois State University, School of Biological Sciences  
University of Colorado, Department of Ecology and Evolutionary Biology (**graduate student selection as invited speaker**)  
Ecological Society of America National Meeting, Pittsburgh, PA, Symposium: Towards a General Theory for How Climate Change will affect Infectious Disease (gave intro. and moderated discussion)  
Ecological Society of America National Meeting, Pittsburgh, PA, Symposium: Towards a General Theory for How Climate Change will affect Infectious Disease (postdoc gave talk)  
American Society of Parasitologists National Meeting, Colorado Springs, CO, Symposium: Causes and Consequences of Helminth Infections in Amphibians  
University of Florida, Gulf Coast Research and Education Center  
National Synthesis Workshop: Pathogens (Bacteria, Viruses and Protozoa) in Rural and Agricultural Water and Watersheds (Ithaca, NY, postdoc presented)  
Vanderbilt University, Department of Microbiology and Immunology  
Belmont University, Department of Biology  
USDA-NIFA Water and Watershed Annual Awardee Meeting (Hilton Head, SC; co-PI presented)
- 2009 Penn State University, School of Forest Resources  
American Society of Agronomy – Crop Science Society of America – Soil Science Society of America Joint International Meeting (Pittsburgh, PA), USDA-CSREES-NRI Managed Ecosystems Annual Awardee Meeting  
University of Central Florida, Department of Biology  
Society for Conservation Biology Meeting (Flagstaff, AZ), Organized Symposium: “Infectious Disease and Conservation in North America”  
Ecological Society of America Meeting (Albuquerque, NM), Organized Oral Session: “Climate Change Science in Conservation Planning”  
US EPA National Meeting on the “Plight of Ecosystems in a Changing Climate: Impacts on Services, Interactions, and Responses” (Seattle, WA)  
Archbold Biological Station (Lake Placid, FL)  
Emporia State University (Emporia, KS), Department of Biological Sciences (**graduate student selection as invited speaker**)
- 2008 Joint Meeting of Ichthyologists and Herpetologists (Montreal, Canada), Organized Symposium: “Biodiversity and agricultural sustainability in North America”  
Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Athens, GA)
- 2007 Ecological Society of America Meeting (San Jose, CA), Organized Oral Session: “Disease emergence and amphibian decline: using ecology to understand patterns and promote restoration” (co-author presented)  
Smithsonian Environmental Research Center

- Oklahoma State University, Department of Zoology  
 University of South Florida, Department of Biology  
 USGS- and EPA-sponsored International Meeting: Understanding agriculture's effects on amphibians and reptiles in a changing world (St. Louis, MO).  
 Indiana University, School of Public and Environmental Affairs
- 2006 University of California at Davis, joint seminar: Wildlife, Fish and Conservation Biology Department and Environmental Science and Policy Department  
 International Conference on the Ecology and Evolution of Infectious Diseases (State College, PA), invited to moderate and give a 10 min. synthesis of the organized session entitled "Parasites in field systems"  
 Penn State University, Department of Entomology  
 Fordham University, Biology Department  
 Indiana University, joint seminar: Department of Biology and School of Public and Environmental Affairs  
 International Conference on Mycorrhiza, Granada, Spain, (given by collaborator)  
 Mid-Atlantic Mosquito Control Association Meeting, Harrisburg, PA
- 2005 University of California at Davis, Environmental Science and Policy Department  
 Duquesne University, Department of Biological Sciences  
 Center for Infectious Disease Dynamics, State College, PA  
 Pennsylvania Invertebrate Biodiversity Project Meeting, State College, PA  
 Penn State University, Intercollege Program in Ecology  
 University of Virginia, Blandy Experimental Farm  
 NIH-sponsored National Meeting: Atrazine and the health of humans and wildlife: State of the science and future research needs, Iowa City, IA
- 2004 Penn State University, Department of Entomology
- 2003 Binghamton University, Department of Biological Sciences  
 University of California at Davis, Environmental Science and Policy Department  
 University of Kentucky, Department of Biology
- 2001 University of Kentucky, Department of Biology

### **Presentations at National and International Meetings**

(Rohr was presenter unless noted):

- 2016 Society for Integrative and Comparative Biology, Portland, OR (3 talks, 2 by my graduate students and one by a colleague)
- 2015 Ecological Society of America Meeting, Baltimore, CA (4 talks, 2 given by me, 2 by PhD students, and 1 poster by my colleague)
- 2014 Ecological Society of America Meeting, Sacramento, CA (3 talks, 1 given by me, 3 by PhD students, and 1 by my colleague)
- 2013 26<sup>th</sup> International Congress for Conservation Biology, Baltimore, MD (talk given by colleague)  
 Society for Integrative and Comparative Biology, San Francisco, CA (poster given by PhD student)

- 2012 American Society of Microbiology, San Francisco, CA (1 poster given by grad. student)  
Society of Environmental Toxicology and Chemistry World Congress, Berlin, Germany (1 talk given by colleague)
- 2011 Society for Environmental Toxicology and Chemistry, Boston, MA (1 talk)  
Ecological Society of America Meeting, Austin, TX (5 talks, 1 given by me, 3 by PhD students, and 1 by my colleague)  
Declining Amphibian Populations Task Force California/Nevada Working Group Meeting, Yosemite National Park, CA (former postdoc gave talk)  
Society for Integrative and Comparative Biology, Salt Lake City, UT (poster given by colleague)
- 2010 Entomological Society of America, San Diego, CA (talk given by grad. student)  
American Society for Microbiology, San Diego, CA (talk given by grad. student)  
International Symposium on Aquatic Animal Health, Tampa, FL (poster given by grad. student)  
Ecological Society of America, Pittsburgh, PA (postdoc gave two posters)  
American Society of Parasitologists Meeting, Colorado Springs, CO (poster given by grad. student)  
American Society for Microbiology, San Diego, CA (talk given by grad. student)
- 2009 Ecological Society of America Meeting, Albuquerque, NM, (two talks given by my postdocs and a poster given by my grad. student)  
American Ornithologist Union (a talk and a poster given by colleagues)  
Society for Integrative and Comparative Biology, Boston, MA (talk given by my grad. student)
- 2008 Society for Environmental Toxicology and Chemistry, Tampa, FL (two talks)  
Ecological Society of America meeting, Milwaukee, WI (three talks, none were presented by Rohr)  
Annual USDA Managed Ecosystems Project Director meeting, Madison, WI (poster)
- 2007 International Meeting on Amphibian Declines & Chytridiomycosis: Translating Science into Urgent Action, Tempe, AZ (poster given by my postdoc)  
Meeting of the Entomological Society of America, San Diego, CA. (two talks given by collaborators)  
Annual Penn State-Cornell Mini-symposium in Chemical Ecology, State College, PA. (given by collaborator)  
USGS- and EPA-sponsored International Meeting: Understanding agriculture's effects on amphibians and reptiles in a changing world, St. Louis, MO (poster)
- 2006 Ecological Society of America meeting, Memphis, TN (three total, one first authored)  
International Conference on the Ecology and Evolution of Infectious Diseases, State College, PA (poster)
- 2005 Ecological Society of America Meeting, Montreal, Canada  
Entomological Society of America meeting, Ft. Lauderdale, FL (given by collaborator)
- 2004 Entomological Society of America meeting, Salt Lake City, UT. (given by collaborator)

- 2003 Society of Environmental Toxicology and Chemistry meeting, Austin, TX  
 Society of Environmental Toxicology and Chemistry meeting, Austin, TX  
 Entomological Society of America meeting, Cincinnati, OH. (given by collaborator)  
 Ecological Society of America meeting, Savannah, GA  
 Animal Behaviour Society meeting, Bloomington, IN
- 2001 Animal Behaviour Society meeting, Corvallis, OR  
 Society for the Study of Amphibians and Reptiles meeting, Indianapolis, IN
- 2000 Ninth International Symposium on Chemical Signals in Vertebrates, Kraków, Poland  
 (given by PhD advisor)

## **ADVISING AND TRAINING**

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### **Postdoctoral Advisees:**

- Dr. David Pike: Aug. 2015-Present (PhD James Cook University)  
 Dr. Elizabeth (Betsy) Roznik: Sept. 2014-Present (PhD James Cook University)  
 Dr. Sarah Knutie: June 2014-Present (PhD from University of Utah)  
 Dr. David Civitello: 2013-Present (PhD from University of Indiana; perfect score on NIH Ruth Kirchstein Grant with Rohr and Roger Nisbet as advisors)  
 Dr. Taegan McMahon: 2013-2014 (PhD from University of South Florida, faculty member at the University of Tampa)  
 Dr. Matthew Venesky: 2011 – 2013 (PhD from University of Memphis, faculty member at Allegheny College)  
 Dr. Jamie Voyles: April 2012– Dec. 2012 (co-advised with Dr. Erica Rosenblum from UC Berkeley, faculty member at University of Nevada, Reno)  
 Dr. Thomas Raffel: 2006 – 2011 (PhD from Penn State University, faculty member at Oakland University)  
 Dr. Krista McCoy: 2009 – 2010 (PhD from University of Florida, faculty member at Eastern Carolina University)  
 Dr. Mike McCoy: 2009 – 2010 (PhD from University of Florida, faculty member at Eastern Carolina University)  
 Dr. John Romansic: 2007 – 2009 (PhD from Oregon State University, presently working for the USGS)  
 Dr. Denise Piechnik: 2007 – 2009 (co-advised with Ke Chung Kim; PhD from UC Davis, faculty member at University of Pittsburg at Bradford)  
 Dr. Jason Hoverman: 2007 (PhD from University of Pittsburgh, faculty member at the Purdue University)

### **Graduate Advisees:**

- David Jennings, PhD received in 12/2011 (postdoc at the University of Maryland)  
 Zach Staley, PhD received 5/2013; co-advised with Dr. Valerie Harwood (postdoc at Western Ontario University)  
 Taegan McMahon, PhD received 8/2013 (faculty member at the University of Tampa; USF Dissertation Completion Fellowship, National Runner-up for the prestigious Marshall-Sherfield Postdoctoral Fellowship in the United Kingdom; USF Outstanding Dissertation Award Winner)  
 Jenise Brown, MS received 8/2013

Brittany Sears, PhD received in 12/2013, University of South Florida Presidential Fellow (works for Evolution Institute and edits for *BioScience*)

Aja-Nikiya Estro, MA received 12/2014 (advisor through Patel College of Global Sustainability)

Alicia Buchanan, MA received 12/2014 (advisor through Patel College of Global Sustainability)

Neal Halstead, PhD received 5/2015 (Senior Ecologist at Wildlands Conservation, Tampa, FL; National Runner-up for the prestigious Marshall-Sherfield Postdoctoral Fellowship in the United Kingdom)

Jeremy Cohen (PhD candidate since 8/2011); USF Dissertation Completion Fellowship

Christina (Nicole) Ortega (PhD candidate since 8/2011) Latino; NSF Pre-doctoral Fellow 2013

Suzanne Young (PhD candidate since 8/2012; co-advised with Dr. Valerie Harwood) EPA STAR Fellow

Erin Sauer (PhD candidate since 1/2014)

Bryan Delius (PhD candidate since 8/2014)

Karena Nguyen (PhD candidate since 8/2014; co-advised with Dr. Valerie Harwood)

Chloe Ramsay (PhD candidate since 8/2015)

### **Technicians:**

Kerri Surbaugh 2016-

Christina Wilkinson 2015-

Kaitlin Deutsch 2015 (currently on a full graduate scholarship at Oxford University)

Erin Sauer 2013 (currently my PhD student)

Scott Bessler 2012-2013 (Master from the University of Alabama, presently works for the US EPA in Cincinnati)

Monica McGarrity 2011

Kristin Parker 2011-2012

Neal Halstead 2007 – 2011 (PhD from my laboratory, currently and environmental consultant)

### **Undergraduate Advisees:**

Trained and supervised >100 undergraduate research assistants

Summer 2015: Advisor to Qiu Chang Wu from Colorado College through the Leadership Alliance

Summer Research Early Identification Program for underrepresented students in science

### **Undergraduate Honors Theses**

Jake Pristupa (current)

David Bichai (2016)

Kirsti Medina (2016)

Christopher Hagen (2016)

Natalia Cano (2016) Hispanic

Kaitlin Deutsch (2015, **Barry M. Goldwater Scholarship** recipient 2014; the most prestigious undergraduate award given in the sciences— is awarded to about 300 college sophomores and juniors nationwide; on a Frost Scholarship to pursue a MS at Oxford University, begins PhD program at Cornell University on a NSF GRFP 8/2016)

Nadia Tenouri (2015, MS program Auckland University) Middle Eastern

Garrett Lentz (2015, MS program Auckland University)

Mackenzie Ehsam (2015, working toward PhD in Veterinary Sciences)

Danielle Vermilyea (2014, PhD program at Univ. of Florida)

Kaitlyn Nemecek (2013)

Joseph Simon (2012) Latino

Anne Frelick (2012)

Veronique Etienne (2011, PhD program Univ. of Florida) Haitian female

Natassia Watson (2011, MS USF Global Health, PhD program Univ. of Florida) African American female  
 Andrea Schlunk (2009, MS in Germany, investigator at Woods Hole, PhD student at University of Rhode Island)  
 Callyn Hall (2009, received a graduate degree from USF Global Health)

### **Graduate Committees:**

Loren Byrne. Penn State University, ad hoc member, PhD received in 8/2006, Assistant Professor at Roger Williams University, RI  
 Timothy Leslie. Penn State University, ad hoc member, PhD received in 12/2007, Lecturer at Long Island University, NY  
 Lance Arvidson, University of South Florida, MS received 5/2008  
 Joshua Kuhlman, University of South Florida, MS received 5/2010  
 Anna Deyle, University of South Florida, MS received 12/2011  
 Heather Jezorek, University of South Florida, PhD received 12/2011  
 Chris Staley, University of South Florida, PhD received 5/2012  
 Andrea Liebl, University of South Florida, PhD received 8/2013  
 Keith Stokes, University of South Florida, PhD received 12/2013  
 Danielle Noaker, University of South Florida, MS received 12/2013  
 Shubhabrata Paul, University of South Florida, Geology Dept., PhD received 12/2013  
 Samantha Mulvany, University of South Florida, PhD received 12/2013  
 Courtney Coon, University of South Florida, PhD received 5/2014  
 Martyna Boruta, University of South Florida, MS 8/2014  
 Paul Thurman, University of South Florida, PhD received 5/2016  
 Chris Haggerty, University of South Florida, PhD candidate (member since 2/2011)  
 Lauren Vanmaurik, University of South Florida, PhD candidate (member since 5/2011)  
 Amber Brace, University of South Florida, PhD candidate (member since 2/2012)  
 Holly Klivitis, University of South Florida, PhD candidate (member since 2013)  
 Nicholas Ogburn, University of South Florida, PhD candidate (member since 12/2014)  
 Jeff Olberding, University of South Florida, PhD candidate (member since 2/2015)  
 Wesley Anderson, University of Florida, PhD candidate (member since 2/2015)  
 Segall Bloom, University of South Florida, PhD candidate (member since 10/2015)  
 Meredith Krause, University of South Florida, MS candidate (member since 5/2016)

### **AWARDS/HONORS**

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- University of South Florida Outstanding Research Achievement Award (2009, 2013)
  - Declined the Harley Jones Van Cleave Endowed Professor position of Host-Parasite Interactions from the University of Illinois at Urbana-Champaign (10/2013)
  - Selected by Dean of USF's College of Arts and Sciences to give a talk to donors in their Trail Blazers lecture series showcasing "USF's best faculty" (2015)
  - Peer selected as the Best Researcher/Scholar at the University of South Florida for the 2014-2015 competition organized by FacultyAwards.org
  - One of three teams (of 17) invited to speak at the White House for the NOAA Dengue Forecasting Challenge (lead author Dr. Leah Johnson) (9/2015)
  - Nominated for the Sabin Award for Amphibian Conservation (2015)
  - Nominated for the Society of Environmental Toxicology and Chemistry's Rachel Carson Award (2015)
  - Nominated by two students for the University of South Florida's Jerome Krivanek's Distinguished Teacher Award (2015)

- Featured articles in *Nature* (top-ranked general science journal 2008, 2014), *Nature Climate Change* (2013), *Trends in Ecology and Evolution* (number one ranked journal in ecology, 2006), *Environmental Health Perspectives* (ranks 2cd among 132 environmental sciences journals, 2010), *Journal of Applied Ecology* (2015), *New Phytologist* (2008), and *Integrative Zoology* (2013)
- Research featured on National Public Radio “All Things Considered” (2008)
- Research featured on Canadian National Television (2014)
- Research featured on ABC Action News and Fox 13 News (2008, 2012)
- Work featured on front page of Tampa Tribune (2012) (<http://www2.tbo.com/news/breaking-news/2012/may/22/namaino1-study-uncovers-a-chemical-killer-ar-406427/>)
- Work featured on front page of St. Pete Times Local section (2011) (<http://www.tampabay.com/news/environment/wildlife/usf-study-concludes-that-common-fungicide-is-deadly-to-frogs/1162355>)
- Research featured in textbooks: and
  - *Introduction to Environmental Toxicology: Molecular Substructures To Ecological Landscapes*, 4th edition by Landis, Sofield, Yu
  - *Ecology* 2cd edition by Cain, Bowman, and Hacker (in several chapters and in the in the online companion website Chapter 13.1: <http://sites.sinauer.com/ecology2e/cc13.1.html>)
- Selected to serve on the National Climate Assessment, US EPA, and US. Global Change Research Programs team to identify National Freshwater Indicators of Climate Change (2012-Present)
- Selected for NIMBios Workshop on Ecological Risk Assessment (4/2014)
- Selected for one week workshop in Jackson Hole, WY on Restoration of Impaired Ecosystems (6/2014) jointly sponsored by the Society for Environmental Toxicology and Chemistry and the Society for Ecological Restoration (also selected as chair of workgroup 3)
- Nominated by the National Science Foundation as a candidate for membership on the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Scientific Advisory Panel (declined nomination, 2012)
- Binghamton University Graduate Award for Excellence in Research, 2002
- Broome County Earth Star Award, Binghamton, NY, 1996

## ***SCHOLARLY SERVICE***

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### **International and National**

- Associate Editor for *Journal of Applied Ecology* (2014-Present)
- Review Editor for *EcoHealth* (2010-Present)
- Founding Father of the Ecological Society of America’s Disease Ecology Section (2014)
- Ad hoc referee for NSF grants (21 times, 2006-Present)
- DOD SERDP Grant panelist (2015)
- US EPA STAR Grant Panelist (2013, 2015)
- Served on USEPA FIFRA Scientific Advisory Panel for the “Determination of the Ecological Significance of Atrazine Effects on Primary Producers in Surface Water Streams in the Corn and Sorghum Growing Region of the United States (Part II)”, Washington D.C., 2009
- Served on the American Society of Parasitology’s Honorary Members and Distinguished Members Emeriti Committee (Chair from 2013-2014, member 2012-2013)
- Great American Teach-In (2014)
- Reviewed manuscripts for the following journals (number in parentheses indicates number of times I have reviewed):

Acta Tropica (1), Advances in Ecology (1), American Midland Naturalist (1), American Naturalist (2), Amphibia-Reptilia (1), Animal Conservation (3), Basic and Applied Ecology (2), Behaviour (4), Behavioral Ecology and Sociobiology (2), Biological Reviews (2), Biology Letters (2), Comparative Biochemistry and Physiology (2), Chemosphere (3), Conservation Biology (5), Copeia (4), Current Biology (2), Diseases of Aquatic Organisms (6), Ecography (1), EcoHealth (14), Ecological Applications (12), Ecological Entomology (1), Ecology (10), Ecology and Evolution (1), Ecology Letters (12), Ecosphere (1), Ecotoxicology (5), Environmental Health Perspectives (1), Environmental Pollution (1), Environmental Science and Technology (1), Environmental Toxicology and Chemistry (21), Ethology (2), Evolutionary Applications (1), Freshwater Science (2), Frontiers in Ecology and the Environment (2), Functional Ecology (4), G3: Genes, Genomes, Genetics (2), Global Change Biology (5), Herpetologica (2), Herpetological Journal (1), Herpetological Conservation and Biology (1), Hormones and Behavior (1), Hydrobiologia (1), Integrative Zoology (2), International Journal of Parasitology (2), Journal of Applied Ecology (8), Journal of Animal Ecology (7), Journal of Biogeography (2), Journal of Chemical Ecology (1), Journal of Ethology (1), Journal of Experimental Zoology Part A: Ecological Genetics and Physiology (1), Journal of Herpetology (3), Journal of National Science Foundation of Sri Lanka (1), Journal of Zoology (1), Nature Communications (1), Oecologia (11), Oikos (3), Parasitology Research (3), Philosophical Transactions of the Royal Society of London B (1), PLoS Biology (1), PLoS Neglected Tropical Diseases (2), PLoS One (3), Proceedings of the National Academy of Sciences (9), Proceedings of the Royal Society of London B (9), Science (2), Science of the Total Environment (3), Thermal Biology (1), Trends in Ecology and Evolution (2), Trends in Parasitology (2)

### **Regional and Local**

- Served on the Department of Integrative Biology Faculty Advisory Committee (member 2014-2015, chair 2016)
- Served on the Department of Integrative Biology Visibility Committee (member 2013-2015)
- Served on the Department of Integrative Biology Graduate Committee (member 2011-2012)
- Served on University of South Florida Faculty Development Committee (alternate 2012-)
- Served on University of South Florida IACUC committee (alternate 2010-2015, primary 2015-)
- Served on University of South Florida Grievance Committee (member 2010-)
- Served on University of South Florida Safety Committee (member 2009-)
- Served on University of South Florida College of Arts and Sciences Travel Safety Committee (member 2013-2014)
- Served on the University of South Florida Committee to hire four faculty members in STEM education (Integrative Biology chair 2012-2013)
- Served on the University of South Florida Internal Grant Review Panel for Environmental Science submissions (member 2008)
- Served on the Department of Integrative Biology Web and Seminar Committee (chair 2008-2010, member 2012)
- Faculty Advisor to USF Wildlife Conservation Club (2014-)
- Served on the Tampa Lowry Park Zoo's Scientific Review Committee (2011-)
- Regularly give presentations at Elementary Schools in Tampa (2009-)
- Conducted tours of Binghamton University's Nature Preserve, 1995-2002
- Designed, built, and tracked the development of a wetland, Binghamton, NY, 1993-2002
- Planned and implemented a free ethnic, sexual and cultural diversity conference for students, faculty, and staff, Binghamton Univ., 2000
- Coordinated regional and campus activities for Earth Week, Binghamton Univ., 1996
- Director of the Environmental Awareness Module, Binghamton Univ., 1995-1996

- Coordinator of Binghamton Environmental Action Resource, Binghamton Univ., 1995-1996

### ***RESEARCH SKILLS/KNOWLEDGE***

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Proficient at both laboratory and field experimental design, and numerous statistical analyses, such as parametric, nonparametric, multivariate, and power analyses; general and generalized statistical models, null model analyses, permutation tests, information-theoretic model selection, ordination techniques, path analysis and structural equation modeling

### ***PROFESSIONAL AFFILIATIONS*** (past and present)

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Ecological Society of America, Society for Environmental Toxicology and Chemistry, American Society for Parasitologists, Society for Conservation Biology, Society of Integrative and Comparative Biology, American Society for Microbiology, Animal Behavior Society, Sigma Xi, Society for the Study of Amphibians and Reptiles, National Association of Biology Teachers

### ***SELECTED MEDIA COVERAGE***

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Central Illinois: A Cancer Cluster? by Clare Howard • December 31, 2015  
(<http://thecommunityword.com/online/blog/2015/12/31/central-illinois-a-cancer-cluster/>)

Research featured in National Geographic Kids magazine (issue October 2015)

Featured story on Tampa Tribune Sept. 9 2015: <http://www.tbo.com/weather/tampa-area-bedeveled-by-thousands-of-tiny-frogs-after-heavy-rain-20150905/>

Civitello et al. 2015. *Proceedings of the National Academy of the United States of America*

- <http://www.npr.org/sections/goatsandsoda/2015/06/26/416858166/save-wildlife-save-yourself>
- <http://www.mnn.com/earth-matters/stories/saving-wildlife-might-be-good-your-health>
- <http://conservationmagazine.org/2015/06/the-blood-sucking-consequences-of-biodiversity-decline/>
- <http://phys.org/news/2015-06-biodiversity-human-wildlife-diseases-crop.html>
- <http://agro.biodiver.se/2015/08/brainfood-vavilov-then-now-always-helmeted-fowl-diversity-maize-lethal-necrosis-resistance-sorghum-diversity-facilitation/>
- [http://www.npr.org/sections/goatsandsoda/2015/06/26/416858166/save-wildlife-save-yourself?utm\\_medium=RSS&utm\\_campaign=health](http://www.npr.org/sections/goatsandsoda/2015/06/26/416858166/save-wildlife-save-yourself?utm_medium=RSS&utm_campaign=health)
- <http://www.iflscience.com/diverse-ecosystems-control-infectious-diseases>
- [http://e360.yale.edu/digest/biodiversity\\_limits\\_parasites\\_in\\_humans\\_wildlife\\_and\\_plants\\_study\\_says/4460/?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+YaleEnvironment360+%28Yale+Environment+360%29](http://e360.yale.edu/digest/biodiversity_limits_parasites_in_humans_wildlife_and_plants_study_says/4460/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+YaleEnvironment360+%28Yale+Environment+360%29)

Rohr, J.R. et al. 2015. *Proceedings of the National Academy of the United States of America*. Predator diversity, intraguild predation, and indirect effects drive parasite transmission

- [http://www.upi.com/Science\\_News/2015/02/23/Small-predator-diversity-key-to-a-healthy-ecosystem/8841424729510/](http://www.upi.com/Science_News/2015/02/23/Small-predator-diversity-key-to-a-healthy-ecosystem/8841424729510/)
- <http://www.sciencedaily.com/releases/2015/02/150223164529.htm>
- <http://phys.org/news/2015-02-small-predator-diversity-important-healthy.html>
- [http://www.upi.com/Science\\_News/2015/02/23/Small-predator-diversity-key-to-a-healthy-ecosystem/8841424729510/](http://www.upi.com/Science_News/2015/02/23/Small-predator-diversity-key-to-a-healthy-ecosystem/8841424729510/)
- [http://www.terraily.com/reports/Small\\_predator\\_diversity\\_key\\_to\\_a\\_healthy\\_ecosystem\\_999.html](http://www.terraily.com/reports/Small_predator_diversity_key_to_a_healthy_ecosystem_999.html)

- <http://www.natureworldnews.com/articles/12944/20150224/insect-predators-may-protect-us-from-infectious-diseases.htm>
- <http://www.futurity.org/biodiversity-frogs-predators-862342/>
- [http://www.eurekalert.org/pub\\_releases/2015-02/uosf-ubr022315.php](http://www.eurekalert.org/pub_releases/2015-02/uosf-ubr022315.php)
- [http://www.eurekalert.org/pub\\_releases/2015-02/ps-spd022315.php](http://www.eurekalert.org/pub_releases/2015-02/ps-spd022315.php)
- [http://www.sciencecodex.com/usf\\_biologists\\_reductions\\_in\\_biodiversity\\_can\\_elevate\\_disease\\_risk-151410](http://www.sciencecodex.com/usf_biologists_reductions_in_biodiversity_can_elevate_disease_risk-151410)
- <http://www.techtimes.com/articles/34954/20150224/diversity-of-small-predators-has-huge-impact-on-ecosystems.htm>
- <http://www.asiaeu.com/science/small-predator-diversity-is-an-important-part-of-a-healthy-ecosystem-h210049.html>
- <http://esciencenews.com/articles/2015/02/24/small.predator.diversity.important.part.a.healthy.ecosystem>
- <http://www.azocleantech.com/news.aspx?newsID=21494>
- <http://wildlife.org/predator-biodiversity-reduces-disease-in-tadpoles/>

Douglas, M.R., Rohr, J.R., Tooker, J.F. 2015. *Journal of Applied Ecology* Neonicotinoid insecticide travels through a soil food chain, disrupting biocontrol of non-target pests and decreasing soybean yield

- <http://jappliedecologyblog.wordpress.com/2014/12/03/silent-spring-redux-insecticides-cascade-up-a-food-chain-to-poison-carnivores/>
- <http://www.sciencedaily.com/releases/2014/12/141204121436.htm>
- <http://www.planetexperts.com/neonicotinoid-pesticides-creating-toxic-slugs/>
- <http://www.natureworldnews.com/articles/10901/20141204/insecticides-creating-toxic-slugs.htm>
- <http://jappliedecologyblog.wordpress.com/2014/12/03/silent-spring-redux-insecticides-cascade-up-a-food-chain-to-poison-carnivores/>
- [http://www.eurekalert.org/pub\\_releases/2014-12/ps-if120414.php](http://www.eurekalert.org/pub_releases/2014-12/ps-if120414.php)
- <http://www.newsgb.com/science/insecticides-foster-toxic-slugs-reduce-crop-yields-h30060.html>
- <http://pewjournal.com/2014/12/04/this-insecticide-lets-more-slugs-eat-crops/>

McMahon et al. 2014. *Nature* Amphibians acquire resistance to live and dead fungus overcoming fungal immunosuppression

- [http://www.nytimes.com/2014/07/09/science/hope-for-frogs-facing-a-deadly-fungus.html?\\_r=0](http://www.nytimes.com/2014/07/09/science/hope-for-frogs-facing-a-deadly-fungus.html?_r=0)
- <http://www.nature.com/nature/podcast/index-2014-07-10.html>
- <http://www.theguardian.com/environment/2014/jul/09/chytrid-fungus-breakthrough-amphibians-oak-toad>
- <http://news.sciencemag.org/biology/2014/07/cure-plague-frogs>
- <http://scienceblog.com/73255/amphibians-can-acquire-resistance-deadly-fungus/>
- <http://phys.org/wire-news/166431478/amphibians-can-acquire-resistance-to-deadly-fungus.html>
- <http://news.usf.edu/article/templates/?a=6330&z=38>
- <http://www.sciencenewsline.com/summary/2014071000080066.html>
- <http://www.bio-medicine.org/biology-news-1/USF-study-3A-Amphibians-can-acquire-resistance-to-deadly-fungus-36728-1/>
- [http://www.nsf.gov/news/news\\_summ.jsp?cntn\\_id=131479](http://www.nsf.gov/news/news_summ.jsp?cntn_id=131479)

- <http://phenomena.nationalgeographic.com/2014/07/10/hope-against-the-frogpocalypse-fungus-but-just-a-sliver/>
- <http://www.nbcnews.com/science/environment/frogs-get-their-shots-vaccination-may-curb-lethal-fungus-n151561>
- <http://www.smithsonianmag.com/smart-news/frog-toad-can-develop-resistance-deadly-fungus-s-wiping-out-amphibians-worldwide-180952001/>
- <http://www.abc.net.au/science/articles/2014/07/22/4043589.htm>
- <http://esciencenews.com/articles/2014/07/09/usf.study.amphibians.can.acquire.resistance.deadly.fungus>
- Front Page of Metro Section of Tampa Tribune: <http://tbo.com/news/education/usf-research-may-help-fight-decline-of-the-worlds-amphibians-20140720/>
- <http://motherboard.vice.com/read/if-we-dont-want-frogs-to-go-extinct-we-might-have-to-vaccinate-them>
- <http://news.vanderbilt.edu/2014/07/study-finds-hot-frogs-fight-off-fungal-pathogen/>
- <http://lockerdom.com/6277697911392321/6780046077731860>
- <http://www.calacademy.org/sciencetoday/fighting-fungus-with-fungus/5516213/>
- <http://cosmosmagazine.com/features/can-stop-one-deadliest-organisms-nature/>
- <http://www.iflscience.com/plants-and-animals/immunizing-frogs-against-killer-fungus>
- <http://ourworld.unu.edu/en/scientists-make-breakthrough-on-deadly-amphibian-fungus>
- <http://www.the-scientist.com/?articles.view/articleNo/40472/title/Frog-Killing-Fungus-as-Inoculum/>
- <http://www.sciencedaily.com/releases/2014/07/140709140403.htm>
- <http://columbiadailyherald.com/news/state/vanderbilt-study-finds-hot-frogs-overcome-fungal-pathogen>
- [http://www.sciencecodex.com/usf\\_study\\_amphibians\\_can\\_acquire\\_resistance\\_to\\_deadly\\_fungus-137231](http://www.sciencecodex.com/usf_study_amphibians_can_acquire_resistance_to_deadly_fungus-137231)
- <http://hosted.usf.edu/ecoimmunology/?p=193>
- <http://whyfiles.org/2014/amphibian-decline-frogs-fight-back/>
- <http://www.digitaljournal.com/news/environment/tackling-frog-killing-fungus/article/389371>
- <http://healthmedicinet.com/news/usf-study-amphibians-can-acquire-resistance-to-deadly-fungus/>
- [www.newscientist.com/article/mg22329772.800-killer-frog-fungus-could-be-its-own-nemesis.html#.U87\\_lvdWSo](http://www.newscientist.com/article/mg22329772.800-killer-frog-fungus-could-be-its-own-nemesis.html#.U87_lvdWSo)
- [http://www.eurekalert.org/pub\\_releases/2014-07/uosf-usa070914.php](http://www.eurekalert.org/pub_releases/2014-07/uosf-usa070914.php)
- [http://www.zmescience.com/research/amphibian-killed-by-fungus-53454/?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A%20zmescience%20\(ZME%20Science\)#!bj5fD4](http://www.zmescience.com/research/amphibian-killed-by-fungus-53454/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A%20zmescience%20(ZME%20Science)#!bj5fD4)
- <http://summitcountyvoice.com/2014/07/10/can-amphibians-bounce-back-from-the-brink/>

Featured on “People Behind the Science”: <http://www.peoplebehindthescience.com/dr-jason-rohr/>

Featured on Canadian National Television show 16 x 9 (equivalent to 60 Minutes in the U.S.) and several associated web stories

- <http://globalnews.ca/tag/pesticide-peril/>
- <http://globalnews.ca/news/1248219/is-there-atrazine-in-your-drinking-water/>
- <http://globalnews.ca/news/1245663/debate-rages-over-health-effects-of-pesticide-atrazine/>
- <https://www.youtube.com/watch?v=S1wslMYlc-w&list=UUxUD8G1jO8T-Ef2tuADCZOA>

The New Yorker Magazine: Annals of Science Section: "A Valuable Reputation" by Rachel Aviv

- [www.newyorker.com/reporting/2014/02/10/140210fa\\_fact\\_aviv?currentPage=8](http://www.newyorker.com/reporting/2014/02/10/140210fa_fact_aviv?currentPage=8)

Environmental Health News: "Special Report: Syngenta's campaign to protect atrazine, discredit critics." By Clare Howard (mentioned in side bar)

- <http://www.environmentalhealthnews.org/ehs/news/2013/atrazine>

Rohr et al. 2013 *Proceedings of the Royal Society of London B* Early-life exposure to an herbicide has enduring effects on pathogen-induced mortality

- <http://www.sciencedaily.com/releases/2013/10/131023144608.htm>
- [http://www.eurekalert.org/pub\\_releases/2013-10/uosf-eeo102313.php](http://www.eurekalert.org/pub_releases/2013-10/uosf-eeo102313.php)
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