

ANTHONY RAGNAR IVES

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Department of Zoology
University of Wisconsin-Madison
Madison, WI 53706

Education

1983 University of Rochester, BA in Biology and BA in Mathematics (Tom Caraco, advisor)
1988 Princeton University, PhD in Biology (Bob May, advisor)

Academic Positions

1988-1990 Life Sciences Research Foundation Fellowship, University of Washington (Peter Kareiva, advisor)
1990-present Assistant/Associate/Full Professor, Department of Zoology, UW-Madison

Awards and Fellowships

Lilly Foundation Fellowship for Undergraduate Teaching, UW-Madison, 1994
Vilas Associate, UW-Madison, 1999-2000
Romnes Award for Early-Career Faculty Achievement, UW-Madison, 2000
Chancellor's Distinguished Teaching Award, 2008, UW-Madison
Plaenert-Bascom Professorship, 2008-2013 (5-year fixed term), UW-Madison
Robert H. MacArthur Award, Ecological Society of America, 2012
Elected Member, American Academy of Arts and Sciences, 2013
Kellett Award for Mid-Career Faculty Achievement, UW-Madison, 2014
Steenbock Professor of Biological Sciences, UW-Madison, 2015
President's International Fellowship, Distinguished Scientist, Chinese Academic of Sciences, 2017

Postdoctoral Associates

John Losey (1996-97, currently Professor at Cornell University)
Nancy Schellhorn (1998-99, currently a senior research scientist for CSIRO, Australia)
Bill Snyder (1999-2000, currently Professor at Washington State)
Jörgen Ripa (2000-2001, currently Researcher at Lund University)
Bea Beisner (2000-2002, jointly with Steve Carpenter, currently Professor at Université du Québec à Montréal)
Chris Williams (2001-2004, currently Associate Professor at U of Delaware)
Ralph Haygood (2002-2005, currently in private business)
Kelley Tilmon (2002-2005, currently Professor at Purdue University)
Brad Cardinale (2002-2005, currently Associate Professor at U of Michigan)
Derek Johnson (2005, currently Associate Professor at Virginia Commonwealth University)
Jason Harmon (2005-2009, currently Assistant Professor at North Dakota State)
Meghan Duffy (2006-2007, currently Associate Professor at U Michigan)
Karen Abbott (2006-2009, currently Associate Professor at Case Western U)
Tobin Northfield (2011-2013, currently Assistant Professor at James Cook University, Australia)
Mireia Bartrons (2011-2012, with Jake Vander Zanden, currently Assistant Professor, University of Vic, Spain)
Brandon Barton (2010-2015, currently Assistant Professor at Mississippi State)

Rachel Penczykowski (2016-present)
Tanjona Ramiadantsoa (2016-present, with Monica Turner)
Matt McCary (2017-present, with Claudio Gratton and Randy Jackson)

Graduate Students

Todd Palmer (MA 1994, currently Associate Professor at U Florida)
Eric Klopfer (PhD 1997, currently Professor at MIT)
Johannes Foufopoulos (PhD 1998, currently Professor at U Michigan)
Jen Klug (PhD 2001, currently Professor at Fairfield University)
Kevin Gross (PhD 2003, currently Professor at NC State)
Chad Harvey (PhD 2007, currently iSci Teaching Professor at McMaster University, Canada)
Kate Forbes (PhD 2008, currently at Epic Systems)
Matt Helmus (PhD 2008, currently Assistant Professor at Temple University)
Tucker Gilman (PhD 2010, currently Lecturer, University of Manchester)
Nicole Rafferty (PhD 2011, currently Assistant Professor at UC Irvine)
Jocelyn Behm (PhD 2012, currently Assistant Professor at Temple University)
Jacob Usinowicz (PhD 2014, currently Postdoc at ETH Zurich)
Meghan Fitzgerald (PhD 2016, currently faculty at Yakima Valley Community College)
Kyle Webert (PhD 2016, current laboratory instructor at UW-Madison)
Fan Huan (PhD 2016, currently Postdoc at UW-Madison)
Joe Phillips
Amanda McCormick
Michael Bosch
Lucas Nell

Publication List

Books

Hochberg, M. E., and A. R. Ives (editors) 2000. Parasitoid Population Biology. Princeton University Press.

Textbook Chapters

Ives, A. R. 1998. Population ecology. Pages 235-315 in S. I. Dodson, T. Allen, S. R. Carpenter, A. R. Ives, R. Jeanne, J. K. Kitchell, N. Langston and M. G. Turner, editors. Ecology. Oxford University Press, New York, New York.

Ives, A. R. 1999. Readings for population ecology. Pages 347-390 in S. I. Dodson and K. Elliot, editors. Readings in ecology. Oxford University Press, New York, NY.

Publications in refereed journals

Mentored: *=postdoc, **=graduate student, ***=undergraduate student, ****=high school student

1. Ives, A. R., and R. M. May. 1985. Competition within and between species in a patchy environment: relations between microscopic and macroscopic models. *Journal of Theoretical Biology* 115: 65-92.

2. Ives, A. R., and A. P. Dobson. 1987. Antipredator behavior and the population dynamics of simple predator-prey systems. *American Naturalist* 130: 431-447.
3. Godfray, H. C. J., and A. R. Ives. 1988. Stochasticity in invertebrate clutch-size models. *Theoretical Population Biology*. 33: 79-101.
4. Ives, A. R. 1988. Aggregation and the coexistence of competitors. *Annales Zoologici Fennici* 25: 75-88.
5. Ives, A. R. 1988. Covariance, coexistence and the population dynamics of two competitors using a patchy resource. *Journal of Theoretical Biology* 133: 345-361.
6. Ives, A. R. 1989. The optimal clutch size of insects when many females oviposit per patch. *American Naturalist* 133: 671-687.
7. Ives, A. R. 1991. Aggregation and coexistence in a carrion fly community. *Ecological Monographs* 61: 75-94.
8. Brown, C. R., M. B. Brown, and A. R. Ives. 1992. Nest placement relative to food and the evolution of coloniality in cliff swallows. *American Naturalist* 139: 205-217.
9. Garland, T., P. H. Harvey, and A. R. Ives. 1992. Procedures for the analysis of comparative data using independent contrasts. *Systematic Biology* 41: 18-32.
10. Ives, A. R. 1992. Continuous-time models of host-parasitoid interactions. *American Naturalist* 140: 1-29.
11. Ives, A. R. 1992. Density-dependent and density-independent parasitoid aggregation in model host-parasitoid systems. *American Naturalist* 140: 912-937.
12. Ives, A. R., P. Kareiva, and R. ***Perry. 1993. Response of a predator to variation in prey density at three hierarchical scales: lady beetles feeding on aphids. *Ecology* 74: 1929-1938.
13. Ives, A. R. 1995. Measuring competition in a spatially heterogeneous environment. *American Naturalist* 146: 911-936.
14. Ives, A. R. 1995. Measuring resilience in stochastic systems. *Ecological Monographs* 65: 217-233.
15. Ives, A. R. 1995. Predicting the response of populations to environmental change. *Ecology* 76: 926-941.
16. Ives, A. R. 1995. Spatial heterogeneity and host-parasitoid population dynamics: do we need to study behavior? *Oikos* 74: 366-376.
17. Boulinier, T., A. R. Ives, and E. Danchin. 1996. Measuring aggregation of parasites at different host population levels. *Parasitology* 112: 581-587.
18. ***Schooler, S. S., A. R. Ives, and J. ***Harmon. 1996. Hyperparasitoid aggregation to variation in *Aphidius ervi* host density at three spatial scales. *Ecological Entomology* 21: 249-458.
19. Ives, A. R. 1996. Evolution of insect resistance to *Bacillus thuringiensis*-transformed plants. *Science* 273: 1412-1413.
20. Ives, A. R., J. **Foufopoulos, E. **Klopfer, J. **Klug, and T. **Palmer. 1996. Bottle or big-scale studies: how do we do ecology? *Ecology* 77: 681-685.
21. Ives, A. R., and W. H. Settle. 1996. The failure of a parasitoid to persist with a superabundant host: the importance of the numerical response. *Oikos* 75: 269-278.

22. Ives, A. R., and E. D. **Klopfer. 1997. Spatial variation in abundance created by stochastic temporal variation. *Ecology* 78: 1907-1913.
23. Ives, A. R., and D. L. Murray. 1997. Can sublethal parasitism destabilize predator-prey population dynamics? A model of snowshoe hares, predators, and parasites. *Journal of Animal Ecology* 66: 265-278.
24. Ives, A. R., and W. H. Settle. 1997. Metapopulation dynamics and pest control in agricultural systems. *American Naturalist* 149: 220-246.
25. **Klopfer, E. D., and A. R. Ives. 1997. Aggregation and the coexistence of competing parasitoid species. *Theoretical Population Biology* 52:167-178.
26. *Losey, J. E., A. R. Ives, J. ***Harmon, C. ***Brown, and F. ***Ballantyne. 1997. A polymorphism maintained by opposite patterns of parasitism and predation. *Nature* 388: 269-272.
27. Sun, C., A. R. Ives, H. J. Kraeuter, and T. C. Moermond. 1997. The effectiveness of three turacos as seed dispersers in a tropical montane forest. *Oecologia* 112: 94-103.
28. Ives, A. R., M. G. Turner, and S. M. Pearson. 1998. Local explanations of landscape patterns: can analytical approaches approximate simulation models of spatial processes. *Ecosystems* 1: 35-51.
29. Ives, A. R., and V. A. A. Jansen. 1998. Complex dynamics in stochastic tritrophic models. *Ecology* 79: 1039-1052.
30. ***Harmon, J., J. E. *Losey, and A. R. Ives. 1998. The use of color vision in Coccinellidae. *Oecologia* 115: 287-292.
31. **Foufopoulos, J., and A. R. Ives. 1999. Reptile extinctions on landbridge islands: life history attributes and vulnerability to extinction. *American Naturalist* 153: 1-25.
32. **Gross, K., and A. R. Ives. 1999. Inferring host-parasitoid stability from patterns of parasitism among patches. *American Naturalist* 154: 489-496.
33. Ives, A. R., S. R. Carpenter, and B. Dennis. 1999. Community interaction webs and the response of a zooplankton community to experimental manipulations of planktivory. *Ecology* 80: 1405-1421.
34. Garland, T., P. E. Midford, and A. R. Ives. 1999. An introduction to phylogenetically based statistical methods, with a new method for confidence intervals on ancestral values. *American Zoologist* 39: 374-388.
35. Ives, A. R., S. S. ***Schooler, V. J. ***Jagar, S. E. ***Knuteson, M. Grbic, and W. H. Settle. 1999. Variability and parasitoid foraging efficiency: a case study of pea aphids and *Aphidius ervi*. *American Naturalist* 154: 652-673.
36. Ives, A. R., K. **Gross, and J. L. **Klug. 1999. Stability and variability in competitive communities. *Science* 286: 542-544.
37. Hochberg, M. E., and A. R. Ives. 1999. Can natural enemies enforce geographical range limits? *Ecography* 22: 268-276.
38. ***Harmon, J. P., A. R. Ives, J. E. *Losey, A. C. ***Olson, and K. S. ***Rauwald. 2000. *Coleomegilla maculata* (Coleoptera: Coccinellidae) predation on pea aphids promoted by proximity to dandelions. *Oecologia* 125:543-548.

39. Garland, T., and A. R. Ives. 2000. Using the past to predict the present: confidence intervals for regression equations in phylogenetic comparative methods. *American Naturalist* 155: 346-364.
40. Ives, A. R., K. **Gross, and V. A. A. Jansen. 2000. Periodic mortality events in predator-prey systems. *Ecology* 81: 3330-3349.
41. Ives, A. R., J. L. **Klug, and K. **Gross. 2000. Stability and species richness in complex communities. *Ecology Letters* 3: 399-411.
42. **Klug, J. L., J. M. Fischer, A. R. Ives, and B. Dennis. 2000. Compensatory dynamics in planktonic community responses to pH perturbations. *Ecology* 81: 387-398.
43. ***Olson, A. C., A. R. Ives, and K. **Gross. 2000. Spatially aggregated parasitism on pea aphids, *Acyrtosiphon pisum*, caused by random foraging behavior of the parasitoid *Aphidius ervi*. *Oikos* 91: 66-76.
44. Fischer, J. M., J. L. **Klug, A. R. Ives, and T. M. Frost. 2001. Ecological history and rapid evolution affect plankton community response to perturbation. *Ecology* 82: 2984-3000.
45. ***Rauwald, K. S., and A. R. Ives. 2001. Biological control in disturbed agricultural systems and the rapid re-establishment of parasitoids. *Ecological Applications* 11: 1224-1234.
46. *Snyder, W. E., and A. R. Ives. 2001. Generalist predators disrupt population regulation by a specialist parasitoid. *Ecology* 82: 705-716.
47. Fischer, J. M., T. M. Frost, and A. R. Ives. 2001. Compensatory dynamics in zooplankton community responses to acidification: Measurement and mechanisms. *Ecological Applications* 11: 1060-1072.
48. Azerefegne, F., C. Solbreck, and A. R. Ives. 2001. Environmental forcing and high amplitude fluctuations in the population dynamics of the tropical butterfly *Acraea acerata* Hew. (Lepidoptera: Nymphalidae). *Journal of Animal Ecology* 70: 1032-1045.
49. Symondson, W. O. C., D. M. Glen, A. R. Ives, C. J. Langdon, and C. W. Wiltshire. 2002. Dynamics of the relationship between a generalist predator and slugs over five years. *Ecology* 83: 137-147.
50. Ives, A. R., and J. B. Hughes. 2002. General relationships between species diversity and stability in competitive systems. *American Naturalist* 159: 388-395.
51. Ives, A. R., and D. A. Andow. 2002. Evolution of resistance to Bt crops: directional selection in structured environments. *Ecology Letters* 5: 792-801.
52. Einarsson, A., A. Gardarsson, G. M. Gislason, and A. R. Ives. 2002. Consumer-resource interactions and cyclic population dynamics of *Tanytarsus gracilentus* (Diptera: Chironomidae). *Journal of Animal Ecology* 71: 832-845.
53. Andow, D. A., and A. R. Ives. 2002. Monitoring and adaptive resistance management. *Ecological Applications* 12: 1378-1390.
54. Lynch, L. D., A. R. Ives, J. K. Waage, M. B. Thomas, and M. E. Hochberg. 2002. The risks of biocontrol: transient impacts and minimum nontarget densities. *Ecological Applications* 12: 1872-1882.
55. *Schellhorn, N. A., T. R. ***Kuhman, A. C. ***Olson, and A. R. Ives. 2002. Competition between native and introduced parasitoids of the pea aphid: implications for non-target effects and biological control. *Ecology* 83: 2745-2757.

56. *Snyder, W. E., and A. R. Ives. 2003. Interactions between specialist and generalist natural enemies: parasitoids, predators, and pea aphid biological control. *Ecology* 84: 91-107.
57. Ives, A. R., B. Dennis, K. L. Cottingham, and S. R. Carpenter. 2003. Estimating community stability and ecological interactions from time-series data. *Ecological Monographs* 73: 301-330.
58. Blomberg, S. P., T. Garland, and A. R. Ives. 2003. Testing for phylogenetic signal in comparative data: behavioral traits are more labile. *Evolution* 57: 171-745.
59. **Kilpatrick, A. M., and A. R. Ives. 2003. Species interactions can explain Taylor's power law for time series. *Nature* 422: 65-68.
60. *Beisner, B. E., A. R. Ives, and S. R. Carpenter. 2003. The effects of an exotic fish invasion on the prey communities of two lakes. *Journal of Animal Ecology* 72: 331-342.
61. *Haygood, R., A. R. Ives, and A. D. Andow. 2003. Consequences of recurrent gene flow from crops to wild relatives. *Proceedings of the Royal Society London B* 270: 1879-1886.
62. Woody, S. T., R. N. Spear, E. V. Nordheim, A. R. Ives, and J. H. Andrews. 2003. Single-leaf resolution of the temporal population dynamics of *Aerobasidium pullulans* on apple leaves. *Applied and Environmental Microbiology* 69: 4892-4900.
63. **Östman, Ö., and A. R. Ives. 2003. Scale-dependent indirect interactions between two prey species through a shared predator. *Oikos* 102: 505-514.
64. *Cardinale, B. J., C. T. **Harvey, K. **Gross, and A. R. Ives. 2003. Biodiversity and biocontrol: Emergent impacts of a multi-enemy assemblage on pest suppression and crop yield in an agroecosystem. *Ecology Letters* 6: 857-865.
65. ****Lin, L. A., and A. R. Ives. 2003. The effect of parasitoid host-size preference on host population growth rates: an example of *Aphidius colemani* and *Aphis glycines*. *Ecological Entomology* 28: 542-550.
66. *Williams, C. K., A. R. Ives, and R. D. Applegate. 2003. Population dynamics across geographical ranges: time-series analyses of three small game species. *Ecology* 84: 2654-2667.
67. *Ripa, J., and A. R. Ives. 2003. Food web dynamics in correlated and autocorrelated environments. *Theoretical Population Ecology* 64: 369-384.
68. *Cardinale, B. J., A. R. Ives, and P. Inchausti. 2004. The effect of species diversity on ecosystem productivity: Extending our spatial and temporal scales of inference. *Oikos* 104: 437-450.
69. Ives, A. R., S. T. Woody, E. V. Nordheim, C. Nelson, and J. H. Andrews. 2004. The synergistic effects of stochasticity and dispersal on population densities. *American Naturalist* 163: 375-387.
70. Ives, A. R., and B. J. *Cardinale. 2004. Food-web interactions govern the resistance of communities following non-random extinctions. *Nature* 429: 174-177.
71. *Haygood, R., A. R. Ives, and D. A. Andow. 2004. Population genetics of transgene containment. *Ecology Letters* 7: 213-220.
72. ***Demmon, A. S., H. J. ***Nelson, P. J. ***Ryan, A. R. Ives, and W. E. *Snyder. 2004. *Aphidius ervi* (Hymenoptera : Braconidae) increases its adult size by disrupting host wing development. *Environmental Entomology* 33: 1523-1527.
73. *Williams, C. K., A. R. Ives, R. D. Applegate, and J. *Ripa. 2004. The collapse of cycles in the dynamics of North American grouse populations. *Ecology Letters* 7: 1135-1142.

74. ***Aquilino, K. M., B. J. *Cardinale, and A. R. Ives. 2005. Reciprocal effects of host-plant and natural enemy diversity on herbivore suppression: An empirical study of a model tri-trophic system. *Oikos* 108: 275-282.
75. Hastings, A., P. Arzberger, B. Bolker, A. R. Ives, N. Johnson, and M. Palmer. 2005. Quantitative biology for the 21st century. *Bioscience* 55:511-517.
76. Ives, A. R., B. J. *Cardinale, and W. E. Snyder. 2005. A synthesis of subdisciplines: predator-prey interactions, and biodiversity and ecosystem functioning. *Ecology Letters* 8: 102-116.
77. **Gross, K., A. R. Ives, and E. V. Nordheim. 2005. Estimating time-varying vital rates from observation time series: a case study in aphid biological control. *Ecology* 86:740-752.
78. ***Lehmann-Ziebarth, N., P. P. ***Heideman, R. A. ***Shapiro, S. L. ***Stoddart, C. C. L. ***Hsiao, G. R. ***Stephenson, P. A. Milewski, and A. R. Ives. 2005. Evolution of periodicity in periodical cicadas. *Ecology* 86:3200-3211.
79. Ives, A. R., and S. M. Paskewitz. 2005. Testing “vitamin B” as a home remedy against mosquitoes. *Journal of the American Mosquito Control Association* 21:213-217.
80. Cardinale, B. J., M. A. Palmer, A. R. Ives, and S. S. Brooks. 2005. Diversity-productivity relationships in streams vary as a function of the natural disturbance regime. *Ecology* 86:716-726.
81. Ives, A. R., and J. Zhu. 2006. Statistics for correlated data: phylogenies, space, and time. *Ecological Applications* 16:16-32.
82. ***Lehmann-Ziebarth, N., and A. R. Ives. 2006. The structure and stability of model ecosystems assembled in a variable environment. *Oikos* 114:451-464.
83. Ives, A. R., and H. C. J. Godfray. 2006. Phylogenetic analysis of trophic associations. *American Naturalist* 168:E1-E14.
84. *Cardinale, B. J., J. J. ***Weis, A. E. **Forbes, K. J. *Tilmon, and A. R. Ives. 2006. Biodiversity as both a cause and consequence of resource availability: a study of reciprocal causality in a predator-prey system. *Journal of Animal Ecology* 75:497-505.
85. Hein, C. L., B. M. Roth, A. R. Ives, and J. M. Vander Zanden. 2006. Fish predation and trapping for rusty crayfish (*Orconectes rusticus*) control: a whole-lake experiment. *Canadian Journal of Fisheries & Aquatic Sciences* 63:383-393.
86. Huey, R. B., B. Moreteau, J. C. Moreteau, P. Gibert, G. W. Gilchrist, A. R. Ives, T. Garland Jr., and J. R. David. 2006. Evolution of sexual size dimorphism in a *Drosophila* clade, the *D. obscura* group. *Zoology* 109:497-505.
87. ***Langley, S. A., K. J. *Tilmon, B. J. *Cardinale, and A. R. Ives. 2006. Learning by the parasitoid wasp, *Aphidius ervi* (Hymenoptera: Braconidae) alters individual fixed preferences for pea aphid color morphs. *Oecologia* 150:172-179.
88. Woody, S. T., A. R. Ives, E. V. Nordheim, and J. H. Andrews. 2007. Dispersal, density dependence, and population dynamics of a fungal microbe on leaf surfaces. *Ecology* 88:1513-1524.
89. **Helmus, M. R., T. J. ***Bland, C. K. *Williams, and A. R. Ives. 2007. Phylogenetic measures of biodiversity. *American Naturalist* 169:E68-E83.
90. **Helmus, M. R., K. ***Savage, M. W. Diebel, J. T. Maxted, and A. R. Ives. 2007. Separating the determinants of phylogenetic community structure. *Ecology Letters* 10:917-925.

91. ***Weis, J. J., B. J. *Cardinale, K. J. Forshay, and A. R. Ives. 2007. Effects of species diversity on the production of community biomass change in form and magnitude over the course of succession. *Ecology* 88:929-939.
92. Ives, A. R., P. E. Midford, and T. Garland Jr. 2007. Within-species variation and measurement error in phylogenetic comparative methods. *Systematic Biology* 56:252-270.
93. Ives, A. R., and S. R. Carpenter. 2007. Stability and diversity of ecosystems. *Science* 317:58-62.
94. Solbreck, C., and A. R. Ives. 2007. Density dependence vs. independence, and irregular population dynamics of a swallow-wort fruit fly. *Ecology* 88:1466-1475.
95. ****Meisner, M., J. P. *Harmon, and A. R. Ives. 2007. Presence of an unsuitable host diminishes the competitive superiority of an insect parasitoid: a distraction effect. *Population Ecology* 49:347-355.
96. Forester, J. D., A. R. Ives, M. G. Turner, D. P. Anderson, D. Fortin, H. L. Beyer, D. W. Smith, and M. S. Boyce. 2007. State-space models link elk movement patterns to landscape characteristics in Yellowstone National Park. *Ecological Monographs* 77:285-299.
97. Ives, A. R., A. Einarsson, V. A. A. Jansen, and A. Gardarsson. 2008. High-amplitude fluctuations and alternative dynamical states of midges in Lake Myvatn. *Nature* 452:84-87.
98. ***Francke, D. L., J. P. Harmon, C. T. Harvey, and A. R. Ives. 2008. Pea aphid dropping behavior diminishes foraging efficiency of a predatory ladybeetle. *Entomologia Experimentalis et Applicata* 127:118-124.
99. Lavin, S. R., W. H. Karasov, A. R. Ives, K. M. Middleton, and T. Garland, Jr. 2008. Morphometrics of the avian small intestine, compared with non-flying mammals: a phylogenetic approach. *Physiological and Biochemical Zoology* 81:526-550.
100. Johnson, P. T. J., A. R. Ives, R. C. Lathrop, and S. R. Carpenter. 2009. Long-term disease dynamics in lakes: causes and consequences of chytrid infections in *Daphnia* populations. *Ecology* 90:132-144.
101. *Harmon, J. P., N. A. Moran, and A. R. Ives. 2009. Species response to environmental change: impacts of food web interactions and evolution. *Science* 323:1347-1350.
102. *Abbott, K. C., J. Ripa, and A. R. Ives. 2009. Environmental variation in ecological communities and inferences from single-species data *Ecology* 90:1268-1278.
103. *Duffy, M. A., S. R. Hall, C. E. Caceres, and A. R. Ives. 2009. Rapid evolution, seasonality, and the termination of parasite epidemics. *Ecology* 90:1441-1448.
104. Carpenter, S. R., E. V. Armbrust, P. W. Arzberger, F. S. Chapin, J. J. Elser, E. J. Hackett, A. R. Ives, P. M. Kareiva, M. A. Leibold, P. Lundberg, M. Mangel, N. Merchant, W. W. Murdoch, M. A. Palmer, D. P. C. Peters, S. T. A. Pickett, K. K. Smith, D. H. Wall, and A. S. Zimmerman. 2009. Accelerate Synthesis in Ecology and Environmental Sciences. *Bioscience* 59:699-701.
105. Zheng, L., A. R. Ives, T. Garland, Jr., B. R. Larget, Y. Yu, and K. Cao. 2009. Multivariate tests for phylogenetic signal and trait correlations applied to ecophysiological phenotypes of nine *Manglietia* species. *Functional Ecology* 23:1059-1069.
106. Ives, A. R., K. C. *Abbott, and N. L. ***Ziebarth. 2010. Analysis of ecological time series with ARMA(p,q) models. *Ecology* 91:858-871.
107. Northfield, T. D., G. B. Snyder, A. R. Ives, and W. E. Snyder. 2010. Niche saturation reveals resource partitioning among consumers. *Ecology Letters* 13:338-348.
108. Ives, A. R., and T. Garland. 2010. Phylogenetic logistic regression for binary dependent variables. *Systematic Biology* 59:9-26.

109. ***Ziebarth, N. L., K. C. *Abbott, and A. R. Ives. 2010. Weak population regulation in ecological time series. *Ecology Letters* **13**:21-31.
110. **Behm, J. E., A. R. Ives, and J. W. Boughman. 2010. Breakdown in postmating isolation and the collapse of a species pair through hybridization. *American Naturalist* **175**:11-26.
111. Ives, A. R., and M. R. **Helmus. 2010. Phylogenetic Metrics of Community Similarity. *American Naturalist* **176**:E128-E142.
112. *Duffy, M. A., C. E. Caceres, S. R. Hall, A. J. Tessier, and A. R. Ives. 2010. Temporal, spatial, and between-host comparisons of patterns of parasitism in lake zooplankton. *Ecology* **91**:3322-3331.
113. **Rafferty, N. E., and A. R. Ives. 2011. Effects of experimental shifts in flowering phenology on plantpollinator interactions. *Ecology Letters* **14**:69-74.
114. Foufopoulos, J., A. M. Kilpatrick, and A. R. Ives. 2011. Climate change and elevated extinction rates of reptiles from Mediterranean islands. *American Naturalist* **177**:119-129.
115. Schooler, S. S., B. Salau, M. H. Julien, and A. R. Ives. 2011. Alternative stable states explain unpredictable biological control of salvinia in Kakadu. *Nature* **470**:86-89.
116. ***Glaum, P. R., A. R. Ives, and D. A. Andow. 2011. Contamination and management of resistance evolution to high-dose transgenic insecticidal crops. *Theoretical Ecology* DOI 10.1007/s12080-010-0109-6.
117. Ives, A. R., P. R. ***Glaum, N. L. ***Ziebarth, and D. A. Andow. 2011. The evolution of resistance to two-toxin pyramid transgenic crops. *Ecological Applications* **21**:503-515.
118. Ives, A. R., and M. R. Helmus. 2011. Generalized linear mixed models for phylogenetic analyses of community structure. *Ecological Monographs* **81**:511-525.
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Publications by graduate students and postdocs from work in my lab without my co-authorship

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4. **Klug, J. L., and K. L. Cottingham. 2001. Interactions among environmental drivers: Community responses to changing nutrients and dissolved organic carbon. *Ecology* 82:3390-3403.
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26. **Gilman, R. T., N. S. ***Fabina, K. C. *Abbott, and N. E. **Rafferty. 2012. Evolution of plant-pollinator mutualisms in response to climate change. *Evolutionary Applications* 5:2-16.
27. Harmon, J. P., and B. T. *Barton. 2013. On their best behavior: how animal behavior can help determine the combined effects of species interactions and climate change. *Climate Change and Species Interactions: Ways Forward* 1297:139-147.
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Book chapters

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2. Carpenter, S. R., T. M. Frost, A. R. Ives, J. F. Kitchell, and T. M. Kratz. 1994. Complexity, cascades, and compensation in ecosystems. Pages 197-207 in M. Yasuno and M. M. Watanabe, editors. *Biodiversity: its complexity and role*. Symposium volume, National Institute for Environmental Studies, Japan.
3. Frost, T. M., S. R. Carpenter, A. R. Ives, and T. K. Kratz. 1994. Species compensation and complementarity in ecosystem function. Pages 224-239 in C. G. Jones and J. H. Lawton, editors. *Linking species and ecosystems*. Chapman & Hall, New York.
4. Hochberg, M. E., and A. R. Ives. 2000. Introduction. Pages 3-14 in M. E. Hochberg and A. R. Ives, editors. *Parasitoid Population Biology*. Princeton University Press, Princeton.
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6. Hughes, J. B., A. R. Ives, and J. Norberg. 2002. Do species interactions buffer environmental variation (in theory)? Pages 92-101 in M. Loreau, S. Naeem and P. Inchausti, editors. *Biodiversity and ecosystem function: Synthesis and perspectives*. Oxford University Press, Oxford, UK.
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10. Snyder, W. E., and A. R. Ives. 2007. Behaviour influences whether intraguild predation disrupts herbivore suppression by parasitoids. Pages 71-91 *in* E. Wajnberg, C. Bernstein, and J. van Alphen, editors. *Behavioural Ecology of Insect Parasitoids*. Blackwell Publishing, Oxford, UK.
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13. Ives, A. R., and T. Garland, Jr. 2014. Phylogenetic regression for binary dependent variables. Pages 231-261 *in* L. Z. Garamszegi, editor. *Modern Phylogenetic Comparative Methods and Their Application in Evolutionary Biology*. Springer-Verlag, Berlin Heidelberg.

Other publications

1. Ives, A. R. 1987. Testing parent-offspring conflicts in insect parasitoids. *Trends in Ecology and Evolution* 2: 231-233.
2. Ives, A. R. 1991. Population ecology: chaos in time and space (News and Views). *Nature* 353: 241.
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6. Ives, A. R., and A. A. Agrawal. 2005. Special feature - Empirically motivated ecological theory. *Ecology* 86:3137-3138.

Current funding

- | | |
|-----------|---|
| 2016-2021 | NSF-LTREB (PI, with co-PIs Arni Einarsson, Claudio Gratton, Randy Jackson, Phil Townsend, and Jake Vander Zanden) "High-amplitude midge fluctuations and the ecosystem dynamics of Lake Myvatn, Iceland" |
| 2012-2017 | NSF-IGERT (Co-PI, with PI Volker Radeloff) "Novel ecosystems, rapid change, and no-analog conditions: the future of biodiversity conservation in human-dominated landscapes" |
| 2013-2018 | NSF-Dimensions (PI, with collaborators Jason Harmon, Kerry Oliver, and Volker Radeloff) "Collaborative Research: The role of taxonomic, functional, genetic, and landscape diversity in food web responses to a changing environment" |

Talks and seminars (last 10 years)

Invited talks

- 2006 Center for Population Biology Workshop – UC-Davis
- 2006 Chitty Lecture – University of British Columbia
- 2006 Invited Speaker – Bob May’s birthday party, Oxford, UK
- 2006 Invited Speaker – Workshop on “Uncertainty in Ecological Analysis” at the Mathematical Biosciences Institute
- 2006 Invited participant – Symposium on Behavioral Ecology of Parasitoids, Nice, France
- 2008 Keynote Speaker – The Evolutionary Ecology of Plant-Animal Associations: from Genes to Communities, Mallorca, Spain
- 2008 Keynote Speaker – Ecology of Icelandic Flora and Fauna, Reykjavik, Iceland
- 2009 Invited Speaker – “Biosecurity for the New Bioeconomy”, Organization for Economic Cooperation and Development, Canberra, Australia
- 2011 Plenary Speaker – Netherlands Annual Ecology Meeting (NERN)
- 2013 Robert H. MacArthur Keynote Lecture – Ecological Society of America
- 2013 Distinguished Lecture in Ecology – University of North Carolina
- 2014 Keynote Speaker – Golden PEG symposium, Lund University
- 2014 Plenary Speaker, Modern Phylogenetic Comparative Methods, Sevilla, Spain
- 2015 Invited Speaker – Refcom, Australian Cotton Growers Association
- 2015 Plenary Speaker, International Symposium on Biomathematics and Ecology Education and Research, Normal, Illinois
- 2016 Invited Speaker, National Science Foundation - Dimensions of Biodiversity, Washington, DC

Department colloquia

- 2006 Evolution Group, UW-Madison
- 2006 Florida State University
- 2007 Swedish University of Agricultural Sciences (1 seminar, 1 workshop)
- 2008 University of Indiana
- 2009 University of Queensland
- 2009 CSIRO Canberra
- 2010 Xishuangbanna Tropical Botanical Garden (3 seminars, 1 workshop, 6 tutorials)
- 2010 Entomology, UW-Madison
- 2011 Mathematical Biology Institute, Ohio State
- 2012 University of Helsinki
- 2012 Dartmouth
- 2013 University of California-Davis
- 2014 Entomology, UW-Madison
- 2014 University of Georgia-Athens
- 2016 Illinois State University

Talks at national/international meetings

- 2004 Ecological Society of America
- 2005 Ecological Society of America
- 2006 Colloquium on the Scholarship of Teaching and Learning (CASTL)
- 2008 Ecological Society of America
- 2008 Entomological Society of America
- 2010 Entomological Society of America

2013 NASA PI meeting for conservation biology
2015 NASA PI meeting for conservation biology
2015 TIMS Bt Tech Panel Webinar, Australia
2016 Ecological Society of America

Classes taught

Introductory Ecology (non-major undergraduates), 100-200 students, taught annually for 15 weeks as the sole instructor

Theoretical Ecology (mainly graduate students), 15-25 students, taught every other year for 15 weeks as the sole instructor

1-4 Graduate seminars every year on a range of topics.