

**Curriculum Vitae:**  
**Leibold, Mathew A.**  
June 2015

Office: Patterson 424  
Section of Integrative Biology  
University of Texas at Austin  
Austin, TX 78712-1199  
512-475-8669  
512-471-3878

<http://www.biosci.utexas.edu/ib/faculty/leibold/lab/>  
E-mail: [mleibold@austin.utexas.edu](mailto:mleibold@austin.utexas.edu)

**Education**

B.S. University of Arizona, Tucson, AZ. 1980	
M.S. University of Arizona, Tucson, AZ. 1980	advisor: JH Brown
Ph.D. Michigan State University, E. Lansing, MI. 1988	advisor: EE Werner & DJ Hall
Post-doc. Duke University, Durham, NC 1989-90	advisor: HM Wilbur
Post-doc. Michigan State University, E. Lansing, MI. 1990	advisor: AJ Tessier

**Professional Experience**

2006-present	Professor, Section of Integrative Biology, U. Texas at Austin
2002-2006	Associate Professor, “ ”
1998-2001	Chair, Committee on Evolutionary Biology, University of Chicago.
1997-2002	Associate Professor, The University of Chicago Dept. of Ecology and Evolution, Committee on Evolutionary Biology, Committee on the Conceptual Foundations of Science,
1991-1997	Assistant Professor, “ ” “ ”.
1991-2011	Adjunct Professor (Visiting), Kellogg Biological Station, Mich. St. Univ.
1989-1990	Research Associate, Dept. of Zoology, Duke University.
1988-1991	Research Associate, Kellogg Biological Station, Michigan State Univ.
1988	Instructor, Gifted and Talented Science Student Program, Kellogg Biology Station.
1981-1986	Research/Teaching Assistant, Mich. State University.
1978-1981	Technician, U. Arizona, Dept. Ecology and Evolutionary Biology.

**Thesis:** 'Habitat Structure and Species Interactions in Plankton Communities of Stratified Lakes'. Advisors: Earl E. Werner and Donald J. Hall

**Current Research Interests:**

- Regulation of trophic structure (allocation of biomass to different functional groups within ecological communities)
- Regulation of biodiversity of phytoplankton and zooplankton at different spatial scales
- Niche relations among phytoplankton and zooplankton at different spatial scales

- Effects of biodiversity on stability of ecosystems, communities, and populations
- Metacommunity ecology
- Evolutionary ecology of interacting species at different spatial scales
- 'Meta-community' phylogeography

**Professional Societies:**

Ecological Society of America  
 American Society of Naturalists

**Honors:**

Bold Regents Professor at University of Texas at Austin  
 Nominated for President of American Society of Naturalists  
 Natural Sciences Council Teaching Award  
 'Eminent Ecologist Visitor' - Kellogg Biological Station

**Grants:**

NSF-DEB 1353919 (2013-2015) EAGER: The 'Keystone Community Concept' as a probe to understand metacommunity ecology.

NSF-DEB 0717370 (2007-2011) Evolution in pond metacommunities. \$478,000

NSF-DEB 0710200 (2007-2009) Dissertation Research: The effects of local adaptation on community composition and species interactions. \$12,000 (J.H. Pantel)

NSF-DEB 0640302 (2007-2008) OPUS: Food Web Dynamics in Pond Metacommunities. \$183,077

Texas Water Development Board (2007-2008) Using satellite imagery to study algal blooms in Texas estuaries, bays and coastal ponds. \$25,000

NSF-DEB 0235579 (2003-2006): Collaborative Research: Compensatory VS Amplifying Effects of Community Structure on Ecological Systems in Response to Environmental Fluctuations". \$400,000 (PI with Amy Downing, Ohio Wesleyan).

NSF-DEB 0508068 (2005-2007) Dissertation Research: Impacts of Migration on Pond Food Web Structure: Insights From Metacommunity Biology and Implications for Multi-Scale Diversity (J. Howeth)

NSF-DEB 9815799 (1998-2003): "Testing Community Theories with Trait-by-gradient Correlations: A Comparative and Experimental Approach" (P.I., Collaborative Research with V.H. Smith, U. Kansas) \$300,000.

NSF-DEB 9509004 (1995-1998): "Biodiversity, trophic structure, and productivity—An experimental test in pond ecosystems" (P.I., Collaborative Research with V.H. Smith, U. Kansas) \$180,000.

NSF-DEB 9701120 (1997-1999): "Dissertation Research: Size-Refugia, Alternative States and Trophic Cascades in Pond Benthic Food Webs (J.M. Chase) \$9,000.

NSF-DEB-9972655 (1999-2001): "Dissertation Research: Biodiversity's Effects on Ecosystem Function and Stability in Ponds." (A.L. Downing): \$11,000.

- NSF-DEB-9972656 (1999-2001): "Dissertation Research: Local vs. Regional Control of Zooplankton Community Structure." (J.B. Shurin): \$9,000.
- NSF-DEB-0105014 (2001-2003): "Dissertation Research: Incorporating Ecological Stoichiometry into a Multi-trophic, Multi-resource Community Framework (S.R. Hall): \$10,000.
- NSF-DEB-0206015 (2002-2004): "Dissertation Research: Spatial Subsidies and the Stability of Planktonic Food Webs in Ponds" (P. Geddes) \$5,000.
- NSF Graduate Research Training Grant. 1994-1999. "Environmental Regulation of Biodiversity: An Integrated Multilevel Training Program" (PI with J. Altmann and J. Sepkoski) \$537,500.
- USDE Graduate Advancement in Areas of National Needs 1998-2001. "Training Grant in Quantitative and Experimental Ecology" (P.I. of proposal with Co-PI's J. Bergelson, C. Pfister, E. Simms and T. Wootton). \$450,000.
- NSF-BSR 8817806 (1989-1990): "Food Web Responses to Environmental Productivity and Predation: a Direct Experimental Test in Field Mesocosms". (Co-PI with H. Wilbur, Duke, U.) \$200,000.
- NSF-BSR 9007597 (1990-1994): "Habitat Selection and the Ecological Consequences of Life-history Evolution in *Daphnia*". (Co-PI with A. Tessier, Mich. St. U.) \$250,000.
- US-Israel Binational Science Foundation 1999261 (2000-2003) "Community Structure in Deserts – the Productivity-as-Structure Hypothesis" (Co-PI with Dr. Yoram Ayal, Ben Gurion University of the Negev), \$100,000.
- USDE Graduate Advancement in Areas of National Needs. 1994-1998. "Training Grant in Quantitative and Experimental Ecology" (Co-PI and coauthor of proposal with E. Simms, M. Wade and T. Wootton,). \$900,000.
- USDE Graduate Advancement in Areas of National Needs. 2001-2003. "Training Grant in Quantitative and Experimental Ecology" (Co-P.I. and coauthor of proposal with J. Bergelson, C. Pfister, E. Simms and T. Wootton). \$573,300.

### **Working groups led:**

- iDiv (2015-2016) sCAFÉ: Community assembly and the functioning of ecosystems (co-leader with S.Morgan Ernest).
- NIMBioS (2010-2011) Synthesizing metacommunity and stoichiometry ecology theory.
- NCEAS (2006-2008): Evolution in Metacommunities Working Group (co-leader with Mark Urban, NCEAS).
- NCEAS (2001-2003) Working Group: "The Meta-Community Concept: A Framework for Large-Scale Community Ecology?"

### **Publications**

Summary citation statistics (Google Scholar)

Citations: 9861

h-index: 40

i10-index 63

**List of Published Papers** Un-refereed publications are marked with an asterisk (\*).

Leibold, M. A. 1989. Resource edibility and the effects of predators and productivity on consumer-resource interactions. **American Naturalist** 134:922-949.

Leibold, M. A. 1990. Resources and predation can affect the vertical distribution of zooplankton. **Limnology and Oceanography** 35:938-944.

Leibold, M. A. 1991. Trophic interactions and habitat segregation between competing *Daphnia*. **Oecologia** 86:510-520.

Leibold, M. A. and A. J. Tessier. 1991. Contrasting patterns of body size for *Daphnia* species that segregate by habitat. **Oecologia** 86:342-348.

Leibold, M.A. and H.M. Wilbur. 1992. Interactions between food web structure and nutrients on pond organisms. **Nature** 360:341-343. (Reviewed in **Nature's** "News&Views")

Tessier, A. J., A. Young, and M. A. Leibold. 1992. Population dynamics and body size selection in *Daphnia*. **Limnology and Oceanography** 37:1-13.

Leibold, M. A. and C. West. 1993. Experimental methods for measuring the effect of light acclimation on vertical migration by *Daphnia* in the field. **Limnology and Oceanography** 38:638-643.

Leibold, M. A., A. J. Tessier, and C. West. 1994. Genetic, acclimatization and ontogenetic effects on habitat selection in *Daphnia pulicaria*. **Evolution** 48:1324-1332.

Leibold, M.A. 1995. The niche concept revisited: mechanistic models and community context. **Ecology** 76:1371-1382 (Special Feature: Concepts Section).

Power ME. et al. 1995. The role of experiments in ecology. **Science** 270:561-561.

Leibold, M.A. 1996. A graphical model of keystone predation: effects of productivity on abundance, incidence and ecological diversity in communities. **American Naturalist** 147:784-812.

Leibold, M.A. 1997. Do nutrient competition models predict nutrient availabilities in limnetic ecosystems? **Oecologia** 110:132-142.

Tessier, A.J. and M.A. Leibold. 1997. Habitat use and ecological specialization within lake *Daphnia* populations. **Oecologia** 104:561-570.

Leibold, M.A., J.M Chase, J. Shurin and A. Downing. 1997. Species turnover and the regulation of trophic structure. **Annual Review of Ecology and Systematics** 28:467-497.

Leibold, M.A. 1998. Similarity and local coexistence of species from regional biotas. **Evolutionary Ecology** 12:95-110.

Leibold, M.A. 1999. Biodiversity and nutrient enrichment in pond plankton communities. **Evolutionary Ecology Research** 1:73-95.

Tessier, A.J., M.A. Leibold, and J.I. Tsao. 2000. A fundamental trade-off in resource exploitation by *Daphnia*. **Ecology** 81:826-841.

Chase, J.M., M.A. Leibold, A. Downing and J.B. Shurin. 2000. Effects of productivity, herbivory and plant species turnover in grassland food webs. **Ecology** 81:2485-2497.

Shurin, J.B., J.E. Havel, M.A. Leibold, and B. Pinel-Alloul. 2000. Local and regional zooplankton species richness: a scale-independent test for saturation. **Ecology** 81:3062-3073.

Chase, J.M., M.A. Leibold and E.L. Simms. 2000. Plant tolerance and resistance in food webs: Community-level prediction and evolutionary implications. **Evolutionary Ecology** 14:289-314.

Leibold, M.A. and G.M. Mikkelsen. 2002. Coherence, species turnover, and boundary clumping: Elements of meta-community structure. **Oikos** 97:237-250.

Chase, J.M. and M.A. Leibold. 2002. Spatial scale dictates the productivity-biodiversity relationship. **Nature** 416:427-430.

Downing, A.L. and M.A. Leibold. 2002. Ecosystem consequences of species richness and composition in pond food webs. **Nature** 416:838-841.

Horner-Devine, M.C., M.A. Leibold, V.H. Smith and B.J.M. Bohannan. 2003. Bacterial diversity patterns along a gradient of primary productivity. **Ecology Letters** 6:613-622.

Shurin, J.B., P. Amarasekare, J.M. Chase, R.D. Holt, M. Hoopes and M.A. Leibold. 2003. Alternative stable states and regional community structure. **Journal Theoretical Biology** 227:359–368.

Steiner, C.F. and M.A. Leibold. 2004. Cyclic assembly trajectories and the generation of scale-dependent productivity-biodiversity relationships. **Ecology** 85:107-113.

Leibold, M.A. and J. Norberg. 2004. Plankton metacommunities as self-organized adaptive systems. **Limnology and Oceanography** 49: 1278-1289. (Special Issue:Plankton Biodiversity)

Leibold, M.A., M. Holyoak, N. Mouquet, R.D. Holt, D. Tilman and 7 others. 2004. The metacommunity concept: a framework for large scale community ecology? **Ecology Letters** 7:601-613.

Hall SR, **Leibold MA**, Lytle DA, and Smith VH. 2004. [Stoichiometry and planktonic grazer composition over gradients of light, nutrients, and predation risk.](#) **Ecology** 85:2291-2301.

Hall SR, Smith VH, Lytle DA, and Leibold MA. 2005. [Constraints on primary producer N : P stoichiometry along N : P supply ratio gradients.](#) **Ecology** 86:1894-1904.

Smith, V.A., B.L. Foster, J.P. Grover, R.D. Holt, M.A. Leibold, and F. deNoyelles. 2005. Phytoplankton species richness patterns: Scale-invariance from laboratory microcosms to the world's largest lakes. **PNAS** 102:4393-4396

Hall SR, Leibold, MA, Lytle DA and Smith VH. 2006. [Inedible producers in food webs: Controls on stoichiometric food quality and composition of grazers.](#) **American Naturalist** 167:628-637.

Leibold, M.A. and M.A. McPeck. 2006. Coexistence of the niche and neutral perspectives in community ecology (invited 'Special Features' paper on 'The neutral theory of biodiversity'). **Ecology** 87:1399-1410.

Hall SR, **Leibold MA**, Lytle DA, Smith VH. 2007. [Grazers, producer stoichiometry, and the light : nutrient hypothesis revisited.](#) **Ecology** 88:1142-1152

Horner-Devine MC, Silver JM, Leibold MA, Bohannan BJM, Colwell RK, Fuhrman JA, Green JL, Kuske CR, Martiny JBH, Muyzer G, Ovreas L, Reysenbach AL, Smith VH. 2007. A comparison of taxon co-occurrence patterns for macro- and microorganisms. **Ecology** 88:1345-1353

Loeuille N and Leibold MA. 2008. Evolution in metacommunities: on the relative importance of species sorting and monopolization in structuring communities. **American Naturalist** 171:788-799.

Howeth, JG and Leibold MA. 2008. Planktonic dispersal dampens temporal trophic cascades in pond metacommunities. **Ecology Letters** 11:245-257.

Urban MC, Leibold MA, Pantel JH, Loeuille N, Vellend M, Amarasekare P, Klausmeier CA, Norberg J, De Mazancourt C, Gomulkiewicz R, Hochberg ME, Strauss SY, De Meester L, Wade MJ. 2008. Evolutionary ecology of metacommunities. **Trends in Research In Ecology and Evolution** 23:311-317.

Loeuille N and Leibold MA. 2008. Ecological consequences of evolution in plant defenses in a metacommunity. **Theoretical Population Biology** 74:34-45.

Downing AL, Brown BL, Perrin EM, Keitt TH and Leibold MA. 2008. Environmental fluctuations induce scale-dependent compensation and increase stability in plankton ecosystems. **Ecology** 89:3204-3214.

\* Leibold MA. 2008. Ecology – Return of the Niche. **Nature** 454:39-40

Carpenter, SR., Armbrust, B, Arzberger P, Chapin FS, ... Leibold MA, ... (19 authors). 2009. Synthesis must be accelerated in ecology and environmental sciences. **BioScience** 59:699-701.

Howeth JG and Leibold MA. 2010. Species dispersal rates alter diversity and ecosystem stability in pond metacommunities. **Ecology** 91:2727-2741.

Howeth JG and Leibold MA. 2010. Prey dispersal rate affects prey species composition and trait diversity in response to multiple predators in metacommunities. **Journal of Animal Ecology** 79:1000-1011.

Downing AL and Leibold MA. 2010. Species richness facilitates ecosystem resilience in aquatic food webs. **Freshwater Biology** 55:2123-2137

Leibold MA, Economo EP and Peres-Neto-P. 2010. Metacommunity phylogenetics: separating the roles of environmental filters and historical biogeography. **Ecology Letters** 13:1290-1299.

Pantel, JH, Leibold MA and Juenger TE. 2011. Population differentiation in *Daphnia* alters community assembly in experimental ponds. **American Naturalist** 177:314-322.

Massol, F. Gravel D, Mouquet N, Cadotte M, Fukami T, and Leibold MA. 2011. Linking community and ecosystem dynamics through spatial ecology. **Ecology Letters** 14:313-323.

Pantel, JH, Juenger TE, and Leibold MA. 2011. Environmental gradients structure *Daphnia pulex* x *pulex* clonal distributions. **Journal of Evolutionary Biology** 24:723-732.

Peres-Neto PR, Leibold MA, and Dray S. 2012. Assessing the effects of spatial contingency and environmental filtering on metacommunity phylogenetics. **Ecology** 93:S13-S30.

Pruett-Jones S, Appelt CW, Sarfaty A, Van Vossen B, Leibold MA and Minor ES. 2012. Urban parakeets in Northern Illinois: A 40-year perspective. **Urban Ecosystems**. 15:709-719.

Mouquet N, Devictor V, Meynard CN, Munoz F, Bersier LF, Chave J, Coutron P, Dalecky A, Fontaine C. Gravel D, Hardy OJ, Jabot F, Lavergne S, Leibold MA, Mouillot D, Munkemüller T, Pavoine S, Prinzig A, Rodrigues ASL, Rohr RP, Thebault E, and Thuiller W. 2012. Ecophylogenetics: advances and perspectives. **Biological Reviews** 87:769-785.

Livingston G, Matias M, Calcagno V, Barbera C, Combe M, Leibold MA and Mouquet N. 2013. Competition-colonization dynamics in experimental bacterial metacommunities. **Nature Communications** 3, 1234.

Livingston, G, Jiang Y, Fox JW and Leibold MA. 2013. The dynamics of community assembly under sudden mixing in experimental microcosms. **Ecology**, 94:2898-2906.

Howeth JG and Leibold MA. 2013 Predation inhibits the positive effect of dispersal on intraspecific and interspecific synchrony in pond metacommunities. **Ecology** 94:2220-2228.

Downing AL, Brown BL and Leibold MA. 2014. Multiple diversity-stability mechanisms enhance population and community stability in aquatic food webs. **Ecology** 95:173-784.

Loeuille N. and Leibold MA. 2014. Effects of local negative feedbacks on the evolution of species within metacommunities. *Ecology Letters*: 17:563-573.

Pavoine S, Bagette M, Stevens VM, Leibold MA, Turlure C and Bonsall MB. 2014. Life history traits, but not phylogeny, drive compositional patterns in a butterfly metacommunity. **Ecology** 95:3304-3313.

Leibold MA and Loeuille N. 2015. Species sorting and patch dynamics in harlequin metacommunities: Influences on the environmental and spatial regulation of community composition. **Ecology** in press.

Malcom JW, Hernandez KM, Wayne T, Likos K, Leibold MA, and Juenger TE. 2015. Extensive cross-environment fitness variation lies along a single axis of variation in the model alga, *Chlamydomonas reinhardtii*. **New Phytologist** 205:841-851.

Fukumori K, Livingston G. and Leibold MA. 2015. Disturbance mediated colonization-extinction dynamics in experimental protist metacommunities. **Ecology** in press

### **Papers submitted:**

Leibold MA, Hall SR, Smith VH and Lytle DA. Herbivory and Hutchinson's 'Paradox of the Plankton' in experimental pond ecosystems. *PNAS*.

Smith GK, and Leibold MA. Experimental evidence for both niche equivalence and niche differentiation within a cryptic species complex. *Ecology*.

Smith GK, Wellborn GA and Leibold MA. Ecological divergence and niche overlap in a complex of cryptic *Hyalella* amphipods. *Oikos*.

Pantel JH, Rousseaux S, Declerck S, Peres-Neto P, Urban M, Leibold MA and De Meester L. Congruent and divergent responses of population genetic and community ecological structure to the geographic mosaic of environmental gradients. *PNAS*

### **Chapters in Books**

Mittlebach, G., C. Osenberg, and M. Leibold. 1988. Trophic relations and ontogenetic niche shifts in aquatic ecosystems. In B. Ebenman and L. Persson (eds).

**Size-structured Populations: Ecology and Evolution.** Springer-Verlag, Berlin.

Leibold, M.A. and A.J. Tessier. 1997. Habitat structure and the structure of lake plankton communities. In B. Streit, T. Stadler and C.J. Lively (eds). **Ecology and Evolution of Freshwater Animals.** Birkhouser Publ., Basel.

Leibold, M.A. and A.J. Tessier. 1998. Experimental compromise and mechanistic approaches to the evolutionary ecology of *Daphnia* assemblages. In W.J. Resetarits and J. Bernardo (eds.). **Perspectives in Experimental Ecology.** Oxford U. Press.

Leibold, M.A. and T.E. Miller. 2003. From metapopulations to metacommunities. In I. Hanski and O. Gaggioti (eds). **Ecology, Genetics, and Evolution of Metapopulations.**

Leibold, M.A., S.R. Hall and O. Bjornstad. 2005. Food web architecture and its effects on consumer resource oscillations in experimental pond ecosystems. In J. Moore and P. deRuyster and V. Wolters (eds). **Food Webs.** Academic Press.

Leibold, M.A., M. Holyoak and R.D. Holt. 2005. Adaptive and co-Adaptive dynamics in metacommunities. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.

Holyoak, M., M.A. Leibold, N. Mouquet and R.D. Holt. 2005. Metacommunities: a framework for large scale community ecology. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.

Chase, J., N. Mouquet, P. Amarasekare, R.D. Holt, M. Holyoak, M. Hoopes, M.A. Leibold, M. Loreau, J. Shurin, and D. Tilman. 2005. Competing theories for competitive metacommunities. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.

Holt, R.D., M Holyoak and M.A. Leibold. 2005. Future directions in metacommunity ecology. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.

Holyoak, M., M.A. Leibold and R.D. Holt. 2005. Coda. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.

Law, R. and M.A. Leibold. 2005. Assembly dynamics in metacommunities. In Holyoak, Leibold and Holt (eds). **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** University of Chicago Press.

Leibold MA. 2009. Spatial dynamics and metacommunities. In S. Levin and M. Loreau (eds). *Guide to Ecology.* Princeton U. Press.

Leibold MA. 2011. The metacommunity concept and its theoretical underpinnings. In: Scheiner, SM and Willig MR (eds). *The Theory of Ecology.*

## Books

Elton, C. “**Animal Ecology**”, 1927. Reprinting with *additional text* by MA Leibold and JT Wootton, 2001. U. Chicago Press.

Chase, J.M. and M.A. Leibold. 2003. “**Ecological Niches**”, U. Chicago Press.

Holyoak, M., M.A. Leibold, and R. Holt (eds). 2005. **Metacommunity Ecology: Emerging views of community structure and dynamics above the local scale.** In press, University of Chicago Press.

Leibold, M.A. and Chase J.M. “**Metacommunity Ecology**”. Princeton Monographs in Population Biology Series. (advanced contract).

## Surveys, Editorials, and Reviews

Leibold, M. A. 1992. Population dynamics and the Tribolium model (book review). *Science* 56:1838. \*

\*

Leibold, M.A. 1994. Mutualism and community organization (book review). *Quarterly Review of Biology* 69:542-543.

\*

Mikkelsen, G.M. and M.A. Leibold. 1995. The ecosystem concept, schism or synthesis? (book review). *Perspectives in Biology and Medicine* 38:297-299.

\*

Leibold, M.A. 1996. Versatility in ecology (book review). *Ecology*

\*

Leibold, MA. 2002. "Ecological Niche": entry in N. Eldredge (ed). "**The Encyclopedia of Ecology, Evolution, and Biodiversity**". ABS-CLIO, Santa Barbara, Ca.

### **Major Invited Conference Speaker Presentations**

- 1987 American Society of Limnology and Oceanography (ASLO). Symposium on Predator-Induced Prey Responses, Madison, Wi.
- 1987 Effects of vertical migration on *Daphnia* competition. Zooplankton Behavior Symposium, Skidaway Institute, U. of Georgia, Savannah, Georgia.
- 1989 Effects of habitat partitioning on competition between *Daphnia* species. Davis Conference on Population Structure, U. C. Davis.
- 1991 ASLO Special Symposium: Food Quality for Consumers in Marine and Freshwaters. Halifax, Nova Scotia.
- 1992 ASLO Symposium on Trophic Interaction in Aquatic Communities. Santa Fe.
- 1995 American Society of Zoology Symposium on Experimental Community Ecology.
- 1997 Conference on Biodiversity and Conservation, Kyoto, Japan
- 1999 Ecological Society of America (ESA) Symposium on "Plant Herbivore Interactions in an Ecosystem Context".
- 2000 ASLO Symposium on "The interface between theory and field experiment: getting beyond yes-or-no answers". Copenhagen.
- 2001 ESA Symposium on "Metacommunities". Madison Wisc.
- 2001 Gordon Conference on Plant-Herbivore Interactions. Ventura, Ca.
- 2002 Plankton Biodiversity Symposium/Workshop. Ann Arbor, Mich.
- 2003 Food-web Symposium, Giessen. Germany
- 2004 Niche Concept Symposium. Keynote speaker. Buenos Aires, Argentina 2004
- 2005 ASLO, Plenary Speaker on Biodiversity in Aquatic Ecosystems. Salt Lake City, 2005
- 2005 Shallow Lakes Congress, Aquatic Biodiversity & Ecosystem Functioning, Keynote Speaker, the Netherlands
- 2007 Metacommunity Workshop. Fribourg, Switzerland. Keynote speaker.
- 2008 Metacommunity Program. Uppsala, Sweden. Keynote lecturer.
- 2008 Texas A&M Annual Ecological Integration Symposium – Keynote speaker
- 2009 Ecological Society of Germany, Keynote Speaker
- 2011 Craaford Prize Symposium, Stockholm, Sweden, Keynote speaker  
Ecological Society of Germany, Plenary Speaker
- 2011 Ecological Society of Germany, Plenary Speaker
- 2011 'Eminent Ecologist' Speaker. Michigan State University.
- 2013 International Society of Biogeography, keynote speaker

### **Previous Pos-docs supervised:**

Lianne Cochran Stafira - St. Xavier College, Chicago  
Donn Branstrator - U. Minnesota, Duluth  
Brendan Bohannon - U. Oregon

Silvia Pinca - College of the Marshall Islands  
David Lytle - Oregon State University  
Bryan Brown - Virginia Tech. U.  
Nicolas Loeuille - U. Paris, Jussieux  
Lisette Senerpont-Domis - Netherlands Inst. Ecology  
Francois Massol - U. Lille  
Kayoko Fukumori - Japan National Institute for Environmental Studies  
Bertrand Fournier – U. Besancon, France

#### **Ph.D. Dissertations Supervised**

Chase, JM. Size-structured interactions and multiple domains of attraction in pond food webs. Assist. Prof. Washington University, St. Louis, MO.

Airame, S. Population structure and viability of stream-dwelling frogs on Borneo (Anura). Science and Policy Coordinator, Partnership for Interdisciplinary Studies of Coastal Oceans, University of California, Santa Barbara. Researcher, NOAA, Santa Barbara.

Shurin, J. Local and regional influences on the structure of freshwater zooplankton communities. Assistant Professor, University of British Columbia, Vancouver

Downing, AL. The role of biological diversity for the functioning and stability of pond ecosystems. Assistant Professor, Ohio Wesleyan University, Delaware OH

Hall, SR. Species sorting and biomass partitioning along light:nutrient:predation risk gradients in planktonic pond ecosystems. Assistant Prof., Indiana University, Bloomington, Ind.

Geddes, P. Effects of allochthonous inputs and subsidies on pond ecosystems. Assistant Prof, Northern Illinois University, DeKalb, IL.

Howeth, JG. Dispersal-diversity relationships and ecosystem functioning in pond metacommunities. Assist. Prof. U. Alabama Tuscaloosa, AL.

Pantel, JH. The interface between metacommunity ecology and microevolution in freshwater zooplankton. Post-doc, Katholic Univ. Leuven, Belgium

Johnston MK. Waterfowl impacts to zooplankton communities in wetland meta-ecosystems. Assist Prof. Concordia College, Austin. TX

Malcom J. Functional genomics of a model ecological species, *Daphnia pulex*. post-doc. U. Conn

Smith G. The coexistence of similar species. post-doc, U Texas Austin

Livingston G. Using Microcosms to Bridge Metacommunity Theory with Natural Patterns. Post-doc. U.C.-Davis.

### **Masters Theses Supervised**

Mikkelson, GM. How do food webs fall apart? Assistant Prof., McGill Univeristy, Montreal, Canada.

Mosley, JP. Neutralities niche: A study on the distribution and abundance of two freshwater invasive species of Asian clam. High school science teacher, Stony Point HS, TX.

### **Professional Services:**

#### **Journal Editing and Editorial Boards**

American Naturalist – Associate Editor	1998-2002
University of Chicago Press - University Board of Publications	1997-2000
Ecological Research – Associate Editor	2007-present
Faculty of 1000 – Editor (Biodiversity)	2005-2010
American Naturalist – Associate Editor	2008- present

#### **Other Service**

1999-2002	National Center for Ecological Analysis and Synthesis, Science Advisory Board.
2002-2006	Resilience Alliance (Conservation Ecology) – Member’s Board
1999-2008	Ecological Society of America – E.S.A. Research Committee
2003	Ecological Society of America – E.S.A. Nomination Committee
2011-2014	American Society of Naturalists – Sewall Wright Prize Committee
2012-2014	American Society of Naturalists – Asilomar Special Meeting Steering Committee.

#### **Service**

##### **Departmental Committees:**

###### At University of Chicago

Plant Population Biologist Search Committee	1991
Evolutionary Ecologist Search Committee	1992
Department Curriculum Committee	1992-1993
Natural History Seminar coordinator	1991-1994
Ecologist Search Committee	1993
Department Seminar coordinator	1992-1998

G.A.A.N.N. training grant steering committee	1994-1998
Ecology & Evolution Grad Admissions Committee	1997-1998
Ecology & Evolution Dept. Executive Committee	1997-1998
Ecology & Evolution Student Advisory Committee (chair)	1997-2000
Behavior Search Committee	1997
Ecology and Evolution Search Committee (co-chair)	1998
Ecology & Evolution Dept. Seminar Committee	2001-2003

#### At The University of Texas at Austin

Ecology Search Committee	2003-2004
Third-year evaluation committee (M. Litvak)	2003-2004
Graduate Student Evaluation and Fellowship Committee	2004-present
" : chair	2013-present
Third-year evaluation committee (T. Keitt)	2004-2005
Ecology Search Committee	2005-2006
Graduate Admissions Committee	2006-present
Ecology Search Committee (chair)	2007-2008

#### **College/University Service**

##### At University of Chicago

Chair, Committee on Evolutionary Biology (CEB)	1998-2001
Univ. Rep. to the Organization for Tropical Studies	1991-1995
Res. Train. Grant proposal Committee, CEB	1991-1992
CEB Graduate Student Advisory Committee	1992-1998
Bio. Sci. Div. Dept. Rev. Com. for Com. Hu. Nut. & Nut. Biol.	1995
CEB Grad. Admissions Committee	1997-1998
Bio. Sci. Div. Inter-cluster Grad. Stud. Steering Comm.	1997-2003
University Board of University Publications	1997-2000
BSCD Ad Hoc Tenure Review Committee	1998, 2000
University-wide Committee on International Programs	2000-2001
CEB Grad. Admissions Committee	2001-2003
CEB Animal Care Committee (chair)	2001-2003

##### At University of Texas

Marine Modeller Search UTMSI	2004-2005
Coastal Ecology Search UTMSI	2006-2007
Committee on Promotions and Tenure	2007-2008
Hamilton Prize Award Committee	2011
EEB Graduate Advisor	2013-present