

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

Office: Bartram 627
Department of Biology
University of Florida
Gainesville, FL 32611
E-mail: mleibold@ufl.edu

Education

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

Professional Experience

2018-present	“Pre-eminent” Professor of Biodiversity Ecology, U. Florida
2002-2017	Bold Professor, Section of Integrative Biology, U. Texas at Austin
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.

Honors:

- 2017: Alexander Von Humboldt Research Prize
- 2017: Fellow of the Ecological Society of America
- 2013: 'Eminent Ecologist Visitor' - Kellogg Biological Station
- 2007: Nominated for President of American Society of Naturalists
- 2007: Natural Sciences Council Teaching Award
- 2006: Bold Regents Professor at University of Texas at Austin

Publications

Summary citation statistics (Google Scholar, Dec 6 2025)
Citations: 27152, h-index: 62

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. 2017. “**Metacommunity Ecology**”. Princeton Monographs in Population Biology Series. Princeton University Press.

List of Published Papers

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, Coueron 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, Thebaud 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.

Howarth 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 web. **Ecology** 95:173-184.

- 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, Baguette M, Stevens VM, Leibold MA, Turlure C, Bonsall MB. 2014. Life-history traits, but not phylogeny, drive compositional patterns in a butterfly metacommunity. **Ecology** 95, 3304-3313
- Malcom JW, Hernandez K, Juenger TM, and Leibold MA. 2015. Gene-network structure of ecological traits in *Chlamydomonas*. **New Phytologist**. 205:841-851.
- Leibold MA and Loeuille. N. 2015. Species sorting and patch dynamics in harlequin metacommunities affect the relative importance of environment and space. **Ecology** 96:3227-3233.
- Fukumori, K., Livingstone, G., and Leibold MA. 2015. Disturbance mediated colonization-extinction dynamics in experimental protist metacommunities. **Ecology** 96:3234-3242.
- Brown, B.L., Downing A.L. and Leibold M.A. 2016. Compensatory dynamics stabilize aggregate community properties in response to multiple types of perturbations. **Ecology** 97:2021-2033.
- Fournier, B., Mouquet, N. Leibold, M.A. and Gravel, D. 2017. An integrative framework of coexistence mechanisms in competitive metacommunities. **Ecography** 5:630-641.
- Gravel, D., Massol F. and Leibold M.A. 2017. Stability and complexity in model metaecosystems. *Nature Communications* 7:12457.
- Leibold, M.A., Hall, S.R., Smith, V.H., and Lytle D.A. 2017. Herbivory enhances the diversity of producers in pond ecosystems. **Ecology** 98:48-56.
- Leibold, M. A., Chase, J. M. and Ernest S.K.M. 2017. Community assembly and the functioning of ecosystems: How metacommunity processes alter ecosystem attributes. **Ecology** 98:909-919.
- Massol F., Altermatt, F., Gounand, I., Gravel, D., Leibold, M. A., Mouquet, N. 2017. How life-history traits affect ecosystem properties: Effects of dispersal in metaecosystems. **Oikos** 126:532-546.
- Livingston, G., Fukumori, K., Provete, D., Kawachi, M., Takamura, N. and Leibold M.A. 2017. Predators regulate prey species sorting and spatial distribution in microbial landscapes. **Journal of Animal Ecology** 86:501-510.

Schiesari, L., M. A. Leibold and G. A. Burton. 2018. Metacommunities, metaecosystems, and the environmental fate of chemical contaminants. **Journal of Applied Ecology** 55:1553-1563.

Cuellar-Gempeler, C., and M. A. Leibold. 2018. Multiple colonist pools shape fiddler crab-associated microbial communities. **ISME Journal**. 12:825-835

Bannar-Martin, K. H., Kremer, C. T., Ernest, M., Leibold, M. A., Auge, H., Chase, J., Declerck, S. A.J., Eisenhauer, N., Harpole, S., Hillebrand, H., Isbell, F., Koffel, T., Larsen, S., Narwani, A., Petermann, J. S., Roscher, C., Cabral, J. S. and Supp, S. R. 2018. Integrating community assembly and biodiversity to better understand ecosystem function: the Community Assembly and the Functioning of Ecosystems (CAFE) approach. **Ecology Letters** doi:10.1111/ele.12895

Resetarits, E. J., Cathey, S. E. and Leibold, M. A. 2018. Testing the keystone community concept: effects of landscape, patch removal, and environment on metacommunity structure. **Ecology**, 99: 57–67. doi:10.1002/ecy.2041

Balint, M., Pfenninger, M., Grissart, H.P., Tabertlet, P., Vellend, M., Leibold, M.A., Englund, G. and Bowler, D. 2018. Environmental DNA time series in ecology. **Trends in Ecology and Evolution** 33:945-957.

Leibold, M.A., Urban, M.C., De Meester, L., Klausmeier, C.A. and Vanoverbeke, J. 2019. Regional neutrality evolves through local adaptive niche evolution. **Proc. Natl. Acad. Sci.** 116:2612-2617.

Cuellar-Gempeler, C. and M.A. Leibold 2019. Key colonist pools and habitat filters mediate the composition of fiddler crab–associated bacterial communities. *Ecology* e02628.

Wisnoski, N., Leibold M.A., and Lennon, J.T. 2019. Dormancy in metacommunities. **The American Naturalist** 194:135-151.

Schiesari, L, Matias, MG, Prado PI, Leibold MA, Albert CH, Howeth, JG, Leroux SJ, Paridini R, Siqueira T, Brancalion PHS, Cabeza M, Coutinho RM, Diniz-Filho JAF, Fournier B, Lahr DJG, Lewinsohn TM, Martins A, Morsello C, Peres-Neto PR, Villar VD and Vazquez DP. 2019. Perspectives in Ecology and Conservation 17:172-181.

Urban, MC, Strauss, SY, Pelletier, F, Palkovacs EP, Leibold MA, Hendry AP, De Meester, L, Carlson SM, Angert AL, and Giery ST. Evolutionary origins for ecological patterns in space. *Proceedings of the National Academy of Sciences* 117:17482-17490.

Almeida-Gomes, M, Balente-Neto, F, Pacheco, EO, Ganci, CC, Leibold MA, Melo, AS and Provete, DB. 2020. How does the landscape affect metacommunity structure? A quantitative review for lentic environments. *Current Landscape Ecology Reports* 5:68-75.

Govaert, L, Altermatt, F, De Meester, L., Leibold, MA, McPeck, MA, Pantel, JH, and Urban, MC. 2021. Integrating fundamental processes to understand eco-evolutionary community dynamics and patterns. *Functional Ecology* 35:2138-2155.

Pelinson, RM, Leibold MA, and Schiesari, L. 2021. Top predator introduction changes the effects of spatial isolation on freshwater community structure. *Ecology* 102, e03500.

Mony, C, Bohannan, BJM, Peay, K., Vandenkoomhuyse, P, and Leibold MA. 2021. Microbial landscape ecology: Highlights on the invisible corridors. *Frontiers Media SA*.

Rakowski, CJ, Farrior, CE, Manning, SR. and Leibold MA. 2021. Predator complementarity dampens variability of phytoplankton biomass in a diversity-stability trophic cascade. *Ecology* 102 e03534.

Leibold, MA, Rudolph, FJ, Blanchet FG, De Meester, L., Gravel, D., Hartig, F, Peres-Neto, P., Shoemaker, L. and Chase, JM. 2022. The internal structure of metacommunities. *Oikos*, 2022:1.

Pelinson, RM, Leibold MA and Schiesari, L. 2022. Community variability in pond metacommunities: interactive effects of predators and isolation on stochastic community assembly. *Oikos*, e08798.

Leibold, MA, Govaert, L, Loeuille, N, De Meester, and Urban, MC. 2022. Evolution and community assembly across spatial scales. *Annual Reviews of Ecology, Evolution and Systematics*. 53:299-326

Faria, APJ, Ligeiro, R, Calvao, LM, Giam, X, Leibold MA, and Juen L. 2023. Land use types determine environmental heterogeneity and aquatic insect diversity in Amazonian streams. *Hydrobiologia* 1-18.

Hartig, F, Abrego N, Bush A, Chase JM, Guillera-Arroita G, Leibold MA, Ovaskainen O, Pellisier L, Pichler M, Poggiato G, Pollock L, Si-Moussi S, Thuiller W, Viana DS, Warton D, Zurrell D and Yu DW. 2024. Novel community data in ecology – properties and prospects. *Trends in Research in Ecology and Evolution* 39: 280-293

McLeod A., Leroux SJ, Rizutto M, Leibold MA, Schiesari L. 2024. Integrating

ecosystem and contaminant models to predict the effects 1 of ecosystem fluxes
2 on contaminant dynamics. *Ecosphere* 15:e4739

Rakowski, C.J., Leibold, M.A., Manning, S.R. 2024. Sunfish as zooplankton control agents to improve yields of wastewater-cultivated algae. *J. Applied Phycology* 36: 2467-2476.

Barbier, M, Bunin, G. and Leibold M.A. 2025. Getting more by asking for less: linking species interactions to species co-distribution in metacommunities. *Peer Community Journal – Ecology* 5

Cai, W, Pichler, M, Biggs, J, Nicolet P, Ewald N, Griffiths RA, Bush A, Leibold MA, Hartig F, and Yu DW. 2015. *Ecography* 6:e07461.

D’Andrea, R, Barabas, G, Dalrymple, SE, Foden, W, Genovesi, P, Krishnadas, M, Leibold MA, McPeck MA, Moehrensclager, A, Rodrigues, JP, Akcakaya, and HR. 2025. Ecological risk-benefit analysis for assisted colonization. *Global Change Biology*. 31,e70613.

Jackson, Z, Leibold MA, Hold, RD and Xue BK. 2026. Modeling and inferring metacommunity dynamics with Maximum Caliber. *Proceedings of the National Academy of Sciences*. In press.

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

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. deRuiter 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**.

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**

*

Post-docs supervised: (and current institution).

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, Jussieu - France

Lisette Senerpont-Domis – Royal Netherlands Inst. Ecology

Francois Massol - U. Lille - France

Kayoko Fukumori - Japan National Institute for Environmental Studies

Bertrand Fournier – Potsdam University

Katherine Bannar-Martin - iDiv-Germany

Friederike Engel – University of Florida

Zachary Jackson – University of Florida

Ph.D. Dissertations Supervised

Chase, JM. Size-structured interactions and multiple domains of attraction in pond food webs. Professor, Director of Synthesis, iDiv – Leipzig Germany.

Airame, S. Population structure and viability of stream-dwelling frogs on Borneo (Anura). Assistant Dean, Academic Programs, Bren School for Environmental Science and Management – U. California Santa Barbara.

Shurin, J. Local and regional influences on the structure of freshwater zooplankton communities. Professor, University of California – San Diego

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

- Hall, SR. 2004. Species sorting and biomass partitioning along light:nutrient:predation risk gradients in planktonic pond ecosystems. Prof., Indiana University, Bloomington, Ind.
- Geddes, P. 2005. Effects of allochthonous inputs and subsidies on pond ecosystems. Prof, Northern Illinois University, DeKalb, IL.
- Howeth, JG. 2010. Dispersal-diversity relationships and ecosystem functioning in pond metacommunities. Assoc. Prof. U. Alabama Tuscaloosa, AL.
- Pantel, JH. 2011. The interface between metacommunity ecology and microevolution in freshwater zooplankton. Assist. Prof. William and Mary College, VA
- Johnston MK. 2012. Waterfowl impacts to zooplankton communities in wetland meta-ecosystems. Assoc. Prof. Concordia College, Austin. TX
- Malcom J. 2015. Functional genomics of a model ecological species, *Daphnia pulex*. Director, Center for Conservation Innovation, Defenders of Wildlife.
- Smith G.K. 2016. The coexistence of similar species. VP Product, Insight Data Science
- Livingston G. 2016. Using microcosms to bridge metacommunity theory with natural patterns. Orange, Silicon Valley
- Shaw R. W. 2016. Sex and Social Hierarchies Affect Populations Across Landscapes.
- Cuellar-Gempeller, C. 2017. Interactions between species pools and habitat filters in structuring crab associated microbial communities. Assist. Prof. Humboldt University.
- Resetarits, E.J. 2019. Competition across space: from metacommunities to social bodysnatching Trematodes. Post-doc, U. Georgia
- Deans, R.A. 2019. The effect of dispersal behavior on stability of populations, communities, and ecosystems. Instructor, U. Texas Austin
- Correa, D.T. 2020. The ecology of amphibian-associated microbial communities. Data Scientist, IBM.
- Rakowski, C.J. 2023. Exploring new varieties and applications of trphic cascades using pond species interaction experiments and theory.

Masters Theses Supervised

Mikkelsen, GM. How do food webs fall apart? Prof., McGill University, Montreal, Canada.

Mosley, JP. Neutrality's 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	2007-2019
Faculty of 1000 – Editor (Biodiversity)	2005-2010
American Naturalist – Associate Editor	2008- 2018

Workshops and Specialized Conference Program Committees

2022 NSF: Workshop: Merging Statistical theory and analyses at the interface of microbial and macrobial ecology. Leader.

2015 iDiv: Community Assembly and the Functioning of Ecosystems (CAFÉ) working group, co-leader with Dr. SKM Ernest (U. Florida)

National Institute for Mathematics in the Bioscience IMBioS

National Center for Ecological Analysis and Synthesis (NCEAS) working group on 'Evolution in Metacommunities (co-leader)

National Center for Ecological Analysis and Synthesis (NCEAS) working group on Metacommunities (leader)

NCEAS working group on microbial diversity (invited participant)

NCEAS working group on 'universal phenomena in ecology' (invited participant)

NSF Workshop on Directions in Zooplankton Population Biology, 1989. Kellogg Biological Station, Hickory Corners, Michigan. (invited participant)

Workshop in Microbial Community Ecology. Center for Microbial Ecology, Michigan State University. 1995. (invited participant)

Workshop on Future Directions in Ecology of Pitcher Plants, Wakulla, FL., 2001 (invited participant)

Workshop on Synthesis of Plankton Diversity. Woods Hole, MA., 2001 (invited participant)

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

2012-2014 American Society of Naturalists – Asilomar Special Meeting Steering Committee.

2018-present Benthological Society of Asia (BSA) - Science Advisory Committee