

**CURRICULUM VITAE
JONATHAN BAIN SHURIN**

Assistant Professor
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EDUCATION

Ph.D., Ecology, University of Chicago, 8/2000. Advisor: Mathew Leibold.
M.S., Zoology, University of Wisconsin- Madison, 5/96. Advisor: Stanley Dodson.
B.A., Biology and Chemistry, Macalester College, St. Paul, MN, 5/92.

PROFESSIONAL EXPERIENCE

Assistant Professor, Department of Zoology, University of British Columbia. 6/03-present.
Post-Doctoral Fellow, National Center for Ecological Analysis and Synthesis, University of California- Santa Barbara. 9/00-6/03.
Graduate Fellow, Dept. of Ecology and Evolution, University of Chicago, 5/96-8/00.
Teaching Assistant, Dept. of Ecology and Evolution, University of Chicago, General Ecology (EE 191), 1/99-4/99.
Teaching Assistant, Dept. of Zoology, University of Wisconsin- Madison. Introductory Zoology (ZOO 102) 9/94-12/94 and 1/96-5/96, Introduction to Biology (ZOO 151) 1/95-5/95 and General Ecology (ZOO 460) 9/95-12/95.
Research Intern, Wisconsin Department of Natural Resources, Eutrophication Control in Lake Delevan Project. 5/95-9/95.
Research Assistant for Dr. David Tilman, University of Minnesota, Cedar Creek Natural History Area, 5/92-9/92 and 5/93-9/93.
Independent Contractor, South Dakota Nature Conservancy, Biological Control of Leafy Spurge (*Euphorbia esula*), 5/93-5/95.

PUBLICATIONS

Cohen, G.M. and J.B. Shurin. 2003. Scale-dependence and mechanisms of dispersal in freshwater zooplankton. *Oikos*, in press.
Havel, J.E., and J.B. Shurin. 2003. Mechanisms, effects and scales of dispersal in freshwater zooplankton. *Limnology and Oceanography*, in press.
Shurin, J.B. and J.E. Havel. 2002. Hydrologic connections and overland dispersal in an exotic freshwater crustacean. *Biological Invasions* **4**: 431-439.
Havel, J.E., J.B. Shurin and J.R. Jones. 2002. Estimating dispersal from patterns of spread: Spatial and local control of lake invasions. *Ecology* **83**: 3306-3318.

- Shurin, J.B., E.T. Borer, E.W. Seabloom, K. Anderson, C.A. Blanchette, B.R. Broitman, S.D. Cooper, and B. Halpern. 2002. A cross-ecosystem comparison of the strength of trophic cascades. *Ecology Letters* **5**: 785-791. *Highlighted in Science's Editor's Choice (*Science* **298**: 1517).
- Borer, E.T., K.A. Anderson, C.A. Blanchette, B.R. Broitman, S.D. Cooper, B. Halpern, E.W. Seabloom, and J.B. Shurin. 2002. Topological approaches to food web analyses: a few modifications may improve our insights. *Oikos* **99**: 397-401.
- Shurin, J.B. and E.G. Allen. 2001. Effects of competition, predation, dispersal on local and regional species richness. *American Naturalist* **158**: 624-637.
- Shurin, J.B. 2001. Interactive effects of predation and dispersal on zooplankton communities. *Ecology* **82**: 3404-3416.
- Shurin, J.B., S.E. Gergel, D.M. Kaufman, D.M. Post, E.W. Seabloom, and J. Williams. 2001. Letter: In defense of ecology. *The Scientist* **15**: 6.
- Shurin, J.B. 2000. Dispersal limitation, invasion resistance, and the structure of pond zooplankton communities. *Ecology* **81**: 3074-3086. *Winner of 2002 Thomas M. Frost Award for Excellence in Graduate Research, Ecological Society of America Aquatic Section.
- 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, A.L. Downing, and J.B. Shurin. 2000. The effects of productivity, herbivory, and plant species turnover in grassland food webs. *Ecology* **81**: 2485-2497.
- Leibold, M.A., J.M. Chase, J.B. Shurin and A.L. Downing. 1997. Species turnover and the regulation of trophic structure. *Annual Review of Ecology and Systematics* **28**: 467-494.
- Shurin, J.B. and S.I. Dodson. 1997. Effects of cyanobacteria and nonylphenol on environmental sex determination and development in *Daphnia*. *Environmental Toxicology and Chemistry* **16(6)**: 1269-1276.

PUBLICATIONS IN REVIEW

- Shurin, J.B., P. Amarasekare, J.M. Chase, R.D. Holt and M.A. Leibold. Alternative stable states and regional community structure. *Ecology Letters*.
- Shurin, J.B. and D.S. Srivastava. New perspectives on local and regional diversity: beyond saturation. Book chapter in *Metacommunities* (ed. M. Holyoak, R. Holt and M. Leibold).
- Havel, J.E., J.B. Shurin and J.R. Jones. Biotic and abiotic constraints on spread of the exotic cladoceran *Daphnia lumholtzi* (Sars). *Journal of Plankton Research*.
- Chase, J.M., M.A. Leibold and J.B. Shurin. Mechanistic explanations for alternative stable equilibria in models of intermediate complexity. *Oikos*.

PUBLICATIONS IN PREPARATION

- Shurin, J.B. and E.W. Seabloom. The strength of trophic cascades across ecosystems: Predictions from allometry and energetics.

Shurin, J.B., R.M. Nisbet, S.R. Hall and S. Diehl. Plant-herbivore stoichiometry and the strength of trophic interactions.

Lundberg, P., W.G. Wilson, D. Vasquez, J.B. Shurin, M.D. Smith, and K.L. Gross. The Lotka-Volterra theory of biodiversity.

PROFESSIONAL DISTINCTIONS, GRANTS AND AWARDS

Canadian Foundation for Innovation, Facility for Biodiversity Dynamics Research. 2003, with D.S. Srivastava, \$159,923 (Canadian).

NSERC Research Grant Award, 2003. The sum of its parts: population, community and ecosystem stability through succession. \$120,000 (Canadian).

Thomas M. Frost Award for Excellence in Graduate Research, Ecological Society of America Aquatic Section, 8/2002.

Post-Doctoral Fellowship, National Center for Ecological Analysis and Synthesis. 5/2000.

Organizing Member, Metacommunity Working Group, National Center for Ecological Analysis and Synthesis.

National Science Foundation Dissertation Improvement Grant, DEB 99-72656. Local vs. regional control of zooplankton community structure. Awarded 3/99. \$9250.

Grant in Area of National Need Fellowship, U.S. Department of Education, 5/96-8/2000.

U.S. Patent No. 5,932,436: "The *Daphnia* reproductive bioassay." With Stanley I. Dodson and Kristin M. Girvin, awarded 8/3/99.

Hinds Fund grant. \$1100. Committee on Evolutionary Biology, University of Chicago, 1997.

The Davis Fund research grant. \$500. Department of Zoology, University of Wisconsin, 1995.

The O.T. Walters Award for outstanding senior Biology major, Macalester College, 1992.

STUDENTS ADVISED

Karl Cottenie, Katholieke Universiteit, Leuven, Belgium. Ph.D. committee, graduated 6/02.

Galeet Cohen, University of Chicago. Undergraduate Honors Thesis, graduated 5/01.

Andrew Forbes, University of Pittsburgh. Undergraduate Honors Thesis committee, graduated 3/01.

MEETING PRESENTATIONS

Shurin, J.B. and E.W. Seabloom. Ecological Society of America (ESA), Tucson, AZ, 8/8/02.

Shurin, J.B. and E.G. Allen. ESA, Madison, WI, 8/9/01.

Havel, J.E., J.B. Shurin, and J.R. Jones. ESA, Madison, WI, 8/6/01.

Havel, J.E., J.B. Shurin, and J.R. Jones. American Society for Limnology and Oceanography (ASLO), Albuquerque, NM, 2/16/01.

Shurin, J.B. ESA, Snowbird, UT, 8/8/00.

Cohen, G.M., J.B. Shurin, and M.A. Leibold. ESA, Snowbird, UT, 8/8/00.

Shurin, J.B., J.E. Havel, M.A. Leibold, and B. Pinel-Alloul. ESA, Spokane, WA, 8/8/99.

Shurin, J.B. Society of International Limnologists meeting, Dublin, Ireland, 8/17/98. Invited
Symposium on Environmental Heterogeneity in Limnology.
Shurin, J.B. and M.A. Leibold. ESA, Albuquerque, NM, 8/14/97.
Shurin, J.B. and S.I. Dodson. ASLO, Milwaukee, WI, 6/17/96.

INVITED SEMINARS

Uppsala University, Evolutionary Biology Center, Uppsala, Sweden, 3/20/03 and 3/21/03.
Umea University, Department of Ecology and Environmental Science, Sweden, 3/26/03.
Ludwig-Maximilians-University, Department of Biology, Munich, Germany, 6/12/02.
Laboratory of Aquatic Ecology, Katholieke Universiteit, Leuven, Belgium, 6/6/02.
University of British Columbia, Department of Zoology, 12/6/01.
State University of New York at Stony Brook, Department of Ecology and Evolution, 11/12/01.
McGill University, Department of Biology, 11/5/01.
National Center for Ecological Analysis and Synthesis, 9/27/01.
Laboratory of Aquatic Ecology, Katholieke Universiteit, Leuven, Belgium, 3/30/01.
University of Pittsburgh, Department of Biology, 3/21/01.
Florida State University, Department of Biology, 3/1/01.
Southwest Missouri State University, Department of Biology, 11/10/00.
University of California- Santa Barbara, Ecology, Evolution and Marine Biology, 10/30/00.
National Center for Ecological Analysis and Synthesis, 9/28/00.
University of Virginia, Mountain Lake Biological Station, 7/11/00.
University of Illinois- Springfield, Department of Biology, 5/4/00.
University of Chicago, Department of Ecology and Evolution, 4/25/00
University of Montreal, Department of Biology, 11/8/99.
Institute for Ecosystem Studies, Milbrook, NY, 11/3/99.
Cornell University, Department of Ecology and Evolutionary Biology, 11/2/99.
Southwest Missouri State University, Department of Biology, 3/23/99.

PEER REVIEWER

Journals: American Naturalist (5), Ecology (7), Ecology Letters (5), Ecosystems, Hydrobiologia,
Journal of Animal Ecology (2), Limnology and Oceanography (2), Oikos, Risk Analysis.

National Science Foundation, Division of Environmental Biology grant proposals (6).