

CURRICULUM VITAE, JESSICA GUREVITCH

Department of Ecology and Evolution
Stony Brook University
Stony Brook, NY 11794-5245
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PROFESSIONAL EXPERIENCE

2006 – Present Chair, Department of Ecology and Evolution, Stony Brook University
2000 – Present Professor, State University of New York at Stony Brook
2002 Sabbatical, Macquarie University, Sydney, NSW, Australia
1992 - 2000 Associate Professor, State University of New York at Stony Brook
1992 - 1993 Program Director, Population Biology, National Science Foundation
1985 - 1992 Assistant Professor, State University of New York at Stony Brook
1983 - 1985 Postdoctoral Fellow, The University of Chicago

EDUCATION

1982 Ph.D., Ecology and Evolutionary Biology, University of Arizona
1973 B.S., Biol. Sci. /Ecology, Evolution & Systematics, Cornell University

PROFESSIONAL SERVICE, HONORS AND MEMBERSHIPS (1992 – present)

2009 University of Massachusetts accreditation review panel member, New England Association of Schools and Colleges, Commission Instit. Higher Education
2009 SUNY Strategic Plan, Group of 200 Delegate (invited by SUNY Chancellor)
2008 - Present Associate Editor, Biology Letters
2008 Elected member, Society for Research Synthesis Methodology (membership limited to 75 people)
2006 Dean's Award for Excellence in Graduate Teaching
2005 – 2007 Executive Vice President, Society for the Study of Evolution
2004 - Present Editorial Board, Journal of Vegetation Science
2004 - Present Associate Editor, Ecology Letters
2004 Member, NSF Ecology panel
2003 Member, USDA Invasive Species Panel
2003 Member, NSF site review team, Jornada LTER
1998 - 2000 Secretary (elected position), American Society of Naturalists

PROFESSIONAL SERVICE, HONORS AND MEMBERSHIPS (CON'T.)

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|--------------|---|
| 1998 - 2000 | Chair, ESA Awards committee |
| 1998, 2000 | Member, NRC Howard Hughes Predoctoral Fellowship panel |
| 1998 | Member, NSF/NATO Postdoctoral Fellowship panel |
| 1996 - 1998 | Chair, ESA Eminent Ecologist Award subcommittee |
| 1997 - 2000 | Editorial Board, Journal of Vegetation Science |
| 1995 - 1996 | Distinguished Service/Eminent Ecologist Awards subcommittee, ESA |
| 1995 | Member, NSF Careers panel |
| 1992 - 1996 | Associate Editor, Journal of Vegetation Science |
| 1994 | Member, NSF special panel on synthesis, Long Term Ecological Research |
| 1990 - 1992 | Elected Council-Member-at-Large, Ecological Society of America |
| current | <i>Professional Reviewer of manuscripts</i> for: Nature, Science, Ecology, Evolution, The American Naturalist, BioScience, Journal of Ecology, Plant Ecology, Canadian Journal of Forest Research, Canadian Journal of Botany, Botanical Gazette, Journal of Vegetation Science, American Journal of Botany, and others <i>External reviewer of grant proposals</i> for NSF (Programs in Ecology and in Population Biology and Physiological Ecology), the Department of Energy, the Department of Agriculture, and others <i>Tenure and promotion reviews</i> (confidential; various universities worldwide) |
| Memberships: | American Society of Naturalists, Ecological Society of America, Society for Research Synthesis Methodology, Society for the Study of Evolution, International Association for Vegetation Science, Sigma Xi |

MAJOR PROFESSIONAL ACCOMPLISHMENTS

Dr. Gurevitch introduced contemporary quantitative research synthesis and meta-analysis to the fields of ecology and evolution, changing the way scientists in these fields conceptualize and review scientific data. This work has been controversial and highly influential. It grew out of her interests in applying rigorous statistical methodology to the analysis of ecological data and the design of ecological experiments. In addition to giving many invited and keynote talks on this and other aspects of her research, she has convened a number of high profile workshops and working groups at the National Center for Ecological Analysis and Synthesis, and at the National Evolutionary Synthesis Center. She has published influential papers on various other statistical applications in ecology, including spatial statistics and repeated measures, collaborating with statisticians to bring powerful and effective statistical tools to this field. Her bestselling co-edited book, *The Design and Analysis of Ecological Experiments* (Scheiner and Gurevitch), went through two editions and has influenced a generation of young ecologists. Dr. Gurevitch is also known for carrying out important fieldwork in plant population and community ecology, and her work has been highlighted in several ecological textbooks. Many of her papers are very highly

cited, and *all* of her published work has been cited (except for publications less than one year old). Dr. Gurevitch is the lead author on the major undergraduate textbook in her field, *The Ecology of Plants* (Gurevitch, Scheiner and Fox). She is a popular and successful teacher at both graduate and undergraduate levels, and was honored by an award for graduate teaching excellence. Dr. Gurevitch has mentored numerous graduate students at the Masters and Ph.D. levels, and many undergraduate and high school students in independent research (including two of the latter who earned national semi-finalist status for their work). As Chair of the highly regarded Department of Ecology and Evolution Department at Stony Brook University for the past four years, she successfully recruited an unprecedented 5 new faculty members during a time of budget austerity and brought back one faculty member who had left the university, and proposed and implemented a greatly expanded Masters program that increases departmental income, among other accomplishments. She has served in many other roles as a highly regarded scientist and manager, including serving as a National Science Foundation Program Director in Population Biology, and on the Re-accreditation team reviewing the University of Massachusetts at Amherst. She is an Associate Editor on two influential journals, *Ecology Letters* and *Biology Letters*. She has served as Executive Vice President of the Society for the Study of Evolution (elected; this included the role of CFO/treasurer). In that role she instituted many profound changes in the way the Society was run. These included removing the Society's endowment money from investments in derivatives (in 2006 – early 2007) where earlier officers had placed it, and investing those funds in safer and more accountable financial instruments. Dr. Gurevitch moved the Society from self publishing, where it was losing tens of thousands of dollars each year, to a very rewarding contract with a professional academic publisher. Dr. Gurevitch also instituted many other changes including moving from paper to electronic balloting and membership applications and establishing a website for the Society.

STUDENTS AND POSTDOCTORAL RESEARCHERS TRAINED

MAJOR ADVISOR, PH.D. STUDENTS:

Janet Morrison (Ph.D. 1994; Associate Professor, The College of New Jersey)

Proserpina Gomez (Ph.D. 1996; Professor, Mindanao State Univ., Philippines)

Paul Teese (Ph.D. 1997; Director, Bowman's Hill Preserve, PA)

Daniel Taub (Ph.D. 1997; Associate Professor, Southwestern University, Texas)

Wei Fang (Ph.D. 2003, Assistant Professor, Long Island University-C.W. Post campus, New York)

Kerry Brown (Ph.D. 2004, Lecturer, Nottingham Trent University, UK)

Eliza Woo (Ph.D., 2008, Postdoctoral Fellow, Columbia University, New York)

Adam Laybourn (entered program Fall 2007)

James Mickley (entered program Fall 2008)

Rebecca Grella (entered program Fall 2007)

Emily Rollinson (entered program Fall 2009)

STUDENTS AND POSTDOCTORAL RESEARCHERS TRAINED (CON'T.)

DOCTORAL COMMITTEES (SINCE 2001):

Christopher Jensen

Jonathan Hickman

Joshua Banta

Andre Tiu

Heather Throop

Jennifer Funk

Isabel Ashton

Catherine McGlynn

Norah Warchola

Sarah Gray

OUTSIDE PH.D. COMMITTEE MEMBER:

Myla Aronson, Ph.D. 2006, Rutgers University

MASTERS' ADVISOR:

Laura L. Morrow (1990)

Dana Woltering (1996)

Kerry Brown (1998)

Rebecca Grella (2000)

Richa Misra (2001)

Cate Stabile (2003)

Angela Joseph (2007)

David Ruggiero (2008)

POSTDOCTORAL SUPERVISOR:

D. Edward Lowry (2009-present, Ph.D. University California Santa Barbara)

Elizabeth Leger (2004-5, Ph.D., University of California at Davis, now Assistant Professor at University of Nevada, Reno)

Katherine Howe (2003- 2004; Ph.D., Univ. Washington, now Coordinator, Midwest Invasive Plant Network, The Nature Conservancy, Indianapolis IN)

Laura Hyatt (1998-2002; Ph.D., Univ. Pennsylvania, now Associate Prof., Rider University)

R. Matthew Landis (1999-2001; Ph.D., Dartmouth; now Associate in Science Instruction, Middlebury College)

Maria N. Miriti (1999-2002; Ph.D., Univ. Ill. at Chicago; now Assistant Professor, Ohio State University)

Timothy Howard (1998-2000; Ph.D., U. Mich.; now Ecologist, NYS Natural Heritage Prog.)

GRANTS AND FELLOWSHIPS

See also Workshops Organized and Funded, below

- 2002-2005 J. Gurevitch, PI: Factors promoting invasion of exotic plant species in forests of the Upton Preserve. U.S. Fish and Wildlife Service. \$77,291
- 2001-2004 J. Gurevitch, PI, M. Lerdau, co-PI: An experimental study of biological invasions in forests of the eastern United States, EPA R828900010, \$453,174
- 2001-2002 J. Gurevitch, PI, collaborative grant, with G.A. Fox: SGER: Dispersal and local population dynamics following large-scale wildfire NSF, \$27,650 ()
- 2000-2002 J. Gurevitch, PI: Linking populations and ecosystem ecology through plant invasions: support for my Ph.D. student Kerry Brown, USDA Forest Service, \$15,000
- 1998 - 2003 J. Gurevitch, PI, G.A. Fox, co-PI: Demography and population dynamics of a fire-adapted tree species, *Pinus rigida*, NSF, DEB 9806923, \$250,000 REU supplements, 1999, \$5000; 2003, \$6000
- 1998 - 2001 J. Gurevitch, PI, M. Lerdau & M. Carreiro, co-PIs: An experimental study of forest invasibility by exotic species, The Nature Conservancy, \$231,450 (incl. \$33,500 cash cost-share from SUNY-SB)
- 1998 – 2000 J. Gurevitch, PI: Demographic model of a plant invasion, USDA, 9800724, \$90,000 (Postdoctoral fellowship for Laura Hyatt)
- 1997 J. Gurevitch, PI: Pitch pine regeneration following severe fire in normal stature and dwarf pines in the Long Island pine barrens, The Nature Conservancy, \$3,800
- 1996 - 1997 J. Gurevitch, PI: Patterns and mechanisms of community recovery following severe fire in the Long Island pine barrens, NSF, DEB 9634664, \$25,000; REU suppl., \$5,000
- 1996 J. Gurevitch, PI: Responses of pitch pine following severe fire in the Long Island pine barrens, The Nature Conservancy, \$7,000
- 1991 - 1992 J. Gurevitch, PI: Ecological meta-analysis: synthesizing the results of field experiments on competition and predation. NSF, Co-sponsored by Ecology and Mathematics, \$26,500.
- 1991 J. Gurevitch, PI: The relative importance of host genetics, host density, and the environment to a natural plant-pathogen interaction. NSF, Dissertation Improvement Award (for Janet A. Morrison), \$10,954.
- 1990 J. Gurevitch, PI: NSF, Research Experiences for Undergraduates Award, \$4,600
- 1989 - 1994 J. Gurevitch, PI: Competitive dominance at two soil resource levels. NSF Research Grant, \$134,634.
- 1989 J. Gurevitch: Katherine Putnam Fellowship at the Arnold Arboretum of Harvard University, \$34,920.

PUBLICATIONS

Citations: 3685 to Nov. 2009; H-index 26, 12 papers and one book chapter cited > 100 times

My work has been highlighted with figures and extended discussion in several undergraduate ecology textbooks, including my work on meta-analysis (J. Gurevitch et al. 1992, J. Gurevitch et al. 2000) cited by C. Krebs, *Ecology*, e.g. 6th edition, 2009, Pearson Benjamin Cummings, San Francisco CA, and field experiments (Gurevitch 1986) in T.M. Smith and R.L. Smith, *Elements of Ecology*, e.g. 7th edition, 2009, Benjamin Cummings, San Francisco CA, among others.

BOOKS PUBLISHED:

Gurevitch, J., S.M. Scheiner and G.L. Fox. 2006. *The Ecology of Plants*, 2nd Ed. Sinauer Associates, Sunderland, MA. (the major undergraduate text on the subject)

Gurevitch, J., S.M. Scheiner and G.L. Fox. 2002. *The Ecology of Plants*. Sinauer Associates, Sunderland, MA.

Scheiner, S.M and J. Gurevitch, Eds. 2001. *Design and Analysis of Ecological Experiments*, 2nd Ed. Oxford Univ. Press. (graduate and professional level textbook)

S. M. Scheiner and J. Gurevitch, Eds. 1993. *The Design and Analysis of Ecological Experiments*. Chapman & Hall, NY and London.

Koricheva, J., J. Gurevitch and K. Mengersen, eds. 2010. *Handbook of Meta-analysis in Ecology and Evolution*. (in contract Princeton Univ. Press; graduate/ professional level)

ARTICLES AND CHAPTERS

2010

Gurevitch, J. and K. Mengersen. A statistical view of research synthesis of patterns of species richness along productivity gradients: devils, forests and trees. *Ecology* (*in press*).

Gurevitch, J. Invasions and plant competition. 2010. In: *Encyclopedia of Invasive Introduced Species*, D. Simberloff and M. Rejmanek, eds. University of California Press, Berkeley CA. (*in press*).

2009

Dukes, J.S., J. Pontius, D. Orwig, J.R. Garnas, V.L. Rodgers, N. Brazee, B. Cooke, K.A. Theoharides, E.E. Stange, R. Harrington, J. Ehrenfeld, J. Gurevitch, M. Lerda, K. Stinson, R. Wick, and M. Ayres. 2009. Responses of insect pests, pathogens, and invasive plant species to climate change in the forests of northeastern North America: What can we predict? 2009. *Can. J. For. Res.* 39:231-248.

PUBLICATIONS (CON'T.)

2008

J. Gurevitch, T.G. Howard, I.W. Ashton, E.A. Leger, K.M. Howe, E. Woo and M. Lerdau. 2008. Effects of experimental manipulation of light and nutrients on establishment of seedlings of native and invasive woody species in Long Island, NY forests. *Biological Invasions* 10: 821-831.

2007

E. A. Leger, K. M. Howe, J. Gurevitch, E. Woo, J. Hickman, I.W. Ashton, and M. Lerdau. 2007. The interaction between soil nutrients and leaf loss during early establishment in plant invasion. *Forest Science* 53: 701-709.

2006

Richards, C., O. Bossdorf, N. Muth, J. Gurevitch and M. Pigliucci. 2006. Jack of all trades, master of some? On the role of phenotypic plasticity in plant invasions. *Ecology Letters* 9:981-993.

Gurevitch, J. Commentary on Simberloff (2006): meltdowns, snowballs and positive feedbacks. 2006. *Ecology Letters* 9:919-921.

W. Fang, G. Fox, D. R. Taub, R. M. Landis, S. Natali and J. Gurevitch. 2006. Sources of variation in growth, form and survival in dwarf and normal-stature pitch pines, *Pinus rigida* (Pinaceae) in long term transplant experiments. *American Journal of Botany* 93:1125-1133.

K. A. Brown, F.N. Scatena and J. Gurevitch. Effects of an invasive tree on community structure and diversity in a tropical forest in Puerto Rico. 2006. *Forest Ecology and Management* 226:145-152.

2005

R. M. Landis, J. Gurevitch, W. Fang, D. Taub and G. A. Fox. 2005. Variation in recruitment and early demography in *Pinus rigida* following crown fire in the pine barrens of Long Island, NY. *Journal of Ecology* 93: 607-617.

I.W. Ashton, L.A. Hyatt, K.M. Howe, J. Gurevitch, and M.T. Lerdau. 2005. Invasive species accelerate decomposition and litter nitrogen loss in a mixed deciduous forest. *Ecological Applications* 15: 1263-1272.

2004

Legendre, P., M.R.T. Dale, M-J. Fortin, P. Casgrain and J. Gurevitch. Effects of spatial structures on the results of field experiments. 2004. *Ecology* 85: 3202-3214.

Brown, K.A. and J. Gurevitch. 2004. Long-term impacts of logging on forest diversity in Madagascar. *PNAS* 101:6045-6049.

PUBLICATIONS (CON'T.)

2004, con't.

- Howard, T.G., J. Gurevitch, L. Hyatt and M. Carreiro. 2004. Forest invasibility in communities in southeastern New York. *Biological Invasions* 6: 393-410.
- Gurevitch, J. and D. Padilla. 2004. Are invasive species a major cause of extinctions? *Trends in Ecology and Evolution* 19: 470-474.
- Gurevitch, J. and D. Padilla. 2004. Response to Ricciardi: Assessing species invasions as a cause of extinction. *Trends in Ecology and Evolution* 19: 620.

2003

- Hyatt, L.A., M.S. Rosenberg, T.G. Howard, G. Bole, W. Fang, J. Anastasia, K. Brown, R. Grella, K. Hinman, J.P. Kurdziel and J.Gurevitch. The distance dependence prediction of the Janzen-Connell hypothesis: a meta-analysis. *Oikos* 103: 590-602.

2002

- Liebhold, A.M. and J. Gurevitch. 2002. Integrating the statistical analysis of spatial data in ecology. *Ecography* 25: 553-557.
- Legendre, P., M.R.T. Dale, M.-J. Fortin, J. Gurevitch, M. Hohn and D. Myers. 2002. The consequences of spatial structure for the design and analysis of ecological field surveys. *Ecography* 25: 601-615.

2001

- Gurevitch, J., P. Curtis and M. H. Jones. Meta-analysis in ecology. 2001. *Advances in Ecological Research* 32:199-247.
- Rustad L.E., J.L Campbell, G.M. Marion, R.J. Norby, M.J. Mitchell, A.E. Hartley, J.H.C. Cornelissen, and J.Gurevitch. 2001. A meta-analysis of the response of soil respiration, net nitrogen mineralization, and aboveground plant growth to experimental ecosystem warming. *Oecologia* 126 (4): 543-562

2000

- Gurevitch, J., J. A. Morrison and L. V. Hedges. 2000. The interaction between competition and predation: a meta-analysis of field experiments. *American Naturalist* 155: 435-453.
- Shaver, G.R., J. Canadell, F. S. Chapin, III, J. Gurevitch, J. Harte, G. Henry, P. Ineson, S. Jonasson, J. Melillo, L. Pitelka, and L. Rustad. 2000. Global warming and terrestrial ecosystems: a conceptual framework for analysis. *BioScience* 50:871-882.
- Fox, G. A. and J. Gurevitch. 2000. Population numbers count: tools for near-term demographic analysis. *American Naturalist* 156:242-256.

PUBLICATIONS (CON'T.)

1999

Gurevitch, J. and L.V. Hedges. 1999. Statistical issues in conducting ecological meta-analyses. *Ecology* 80:1142-1149.

Hedges, L. V., J. Gurevitch and P. Curtis. 1999. Meta-analysis of response ratios in experimental ecology. *Ecology* 80:1150-1156.

Goldberg, D.E., T. Rajaniemi, J. Gurevitch and A. Stewart-Oaten. Empirical approaches to quantifying interaction intensity: competition and facilitation along productivity gradients. *Ecology* 80:1118-1131.

A.M. Arft, M.D. Walker, J. Gurevitch, and the ITEX Synthesis Group. 1999. Responses of tundra plants to experimental warming: meta-analysis of the International Tundra Experiment. *Ecological Monographs* 69: 491-511.

1998

Gomez, P. and J. Gurevitch. 1998. Weed community responses in a corn-soybean intercrop. *Applied Vegetation Science* 1:281-288.

1997

Adams, D.C., J. Gurevitch and M.S. Rosenberg. 1997. Resampling tests for meta-analysis of ecological data. *Ecology* 78:1277-1283.

1996

Gurevitch, J., T. C. Morton, P. L. Gomez, D. R. Taub and I-N. Wang. 1996. Competition and genetic background in a rapid-cycling cultivar of *Brassica rapa* (Brassicaceae). *American Journal of Botany* 83:932-938.

1995

Wilson, C. and J. Gurevitch. Plant size and spatial pattern in a natural population of *Myosotis micrantha*. 1995. *Journal of Vegetation Science* 6:847-852.

1994

J. Gurevitch and S. L. Collins. 1994. Experimental manipulation of natural plant communities. *Trends in Ecology and Evolution* 9:94-98 (cover article).

R. J. Reader, et al. 1994. Intensity of plant competition and neighbor biomass: testing for a consistent relationship. *Ecology* 75:1753-1760.

PUBLICATIONS (CON'T.)

1993

- Gurevitch, J. and L. V. Hedges. 1993. Meta-analysis: combining the results of independent experiments. *In: Scheiner, S.M. and J. Gurevitch, The Design and Analysis of Ecological Experiments.* pp. 378-398.
- Fortin, M.-J. and J. Gurevitch. 1993. Permutation methods: spatial patterning and plant competition. *In: Scheiner, S.M. and J. Gurevitch, The Design and Analysis of Ecological Experiments.* pp. 342-359.

1992

- Gurevitch, J., L. L. Morrow, A. Wallace and J. S. Walsh. 1992. A meta-analysis of field experiments on competition. *American Naturalist* 140:539-572.
- Gurevitch, J. 1992. Sources of variation in leaf shape among two populations of *Achillea lanulosa*. *Genetics* 130:385-394.
- Gurevitch, J. 1992. Differences in photosynthetic rate in populations of *Achillea lanulosa* from two altitudes. *Functional Ecology* 6:568-574.

1990

- Gurevitch, J. and P.H. Schuepp. 1990. Boundary layer properties of highly dissected leaves: an investigation using an electrochemical fluid tunnel. *Plant, Cell and Environment* 13:783-792.
- Gurevitch, J., P. Wilson, P. Teese, J. Stone, and R. Stoutenburgh. 1990. Competition among old-field perennials: effects of available space and resource level. *Journal of Ecology* 78:727-744.

1989

- Gurevitch, J. and R. S. Unnasch. 1989. The effect of competition on plant community structure at two levels of soil resources. *Can. J. Bot.* 67:3470-3477.

1988

- Monson, R.K., J.A. Teeri, M.S.B. Ku, J. Gurevitch and L.J. Mets. 1988. Carbon isotope ratios in leaves of *Flaveria* species exhibiting different amounts of C₃- and C₄- cycle co-function. *Planta* 174:145-151.
- Gurevitch, J. 1988. Variation in leaf dissection and leaf energy budgets among populations of *Achillea* from an altitudinal gradient. *Amer. J. Botany* 75:1298-1306.
- Gurevitch, J. 1988. Differences in the proportion of women to men invited to give seminars: is the old boy still kicking? *Bull. Ecol. Soc. Amer.* 69:155-160.

PUBLICATIONS (CON'T.)

1986

- Gurevitch, J. Competition and the local distribution of the grass *Stipa neomexicana*. 1986. Ecology 67:46-57.
- Gurevitch, J. 1986. Restriction of a C₃ grass to dry ridges in a desert grassland. Canadian Journal of Botany 64:1006 -1011.
- Gurevitch, J. and S.T. Chester. 1986. Analysis of repeated measures experiments. Ecology 67:251-255.
- Gurevitch, J., J.A. Teeri and A.M. Wood. 1986. Genetic differentiation in water relations and photosynthetic carbon metabolism among populations of *Sedum wrightii* (Crassulaceae). Oecologia 70:198-204.
- Teeri, J.A., M. Turner and J. Gurevitch. 1986. The response of leaf water potential and Crassulacean Acid metabolism to prolonged drought in *Sedum rubrotinctum*. Plant Physiol. 81:678-680.

1985

- Gurevitch, J. and J.A. Teeri. 1985. Genetic adaptation and phenotypic plasticity in response to water stress among populations of *Sedum wrightii* (Crassulaceae). In 7th Conference Biometeor. and Aerobiol. pp. 397-398. Amer. Meteor. Soc., Boston.

1984

- Teeri, J.A. and J. Gurevitch. 1984. Environmental and genetic control of Crassulacean acid metabolism in two Crassulacean species and an F₁ hybrid with differing biomass $\delta^{13}\text{C}$ values. Plant, Cell and Environment 7:589-596.
- Scheiner, S.M., J. Gurevitch and J.A. Teeri. 1984. A genetic analysis of the photosynthetic properties of populations of *Danthonia spicata* that have different growth responses to light level. Oecologia 64:74-77.

SUBMITTED AND IN PREPARATION:

- Koricheva, J., J. Gurevitch and K. Mengersen, eds. Handbook of Meta-analysis in Ecology and Evolution. (in preparation, contract with Princeton University Press)
- Gurevitch, J. Alien species and imperiled natives: evidence and questions. (In revision)
- Gurevitch, J., G. A. Fox, G. M. Wardle, Inderjit and D. Taub. Emergent insights from the synthesis of conceptual frameworks for biological invasions (in revision for Proceedings of the Royal Society B).
- Susan M. Natali, J. Gurevitch, G.A. Fox, R.M. Landis and E.A. Leger. Life, death and fire in the Long Island pine barrens.

PUBLICATIONS (CON'T.)

SOFTWARE PUBLISHED

Rosenberg, M.S., D.C. Adams and J. Gurevitch. 1997; 2000. *MetaWin*. 1.0 & 2.0. Statistical software for conducting meta-analysis: fixed effect models, mixed effect models, and resampling tests. (Versions 1.0, 2.0). Sinauer Assoc., Sunderland, MA.

PUBLISHED BOOK AND SOFTWARE REVIEWS (since 1995)

Gurevitch, J. 2007. Sparrow wars, reptilian eucalypts, and xenophobes. Review of: American perceptions of immigrant and invasive species: strangers on the land. *Science* 316: 544-544.

Gurevitch, J. 2003 Data analysis in biology. Review of: Quinn, G.P. and M.J. Keough. 2000. *Experimental design and data analysis for biologists*. Cambridge Univ. Press, Cambridge. *Journal of Biogeography* 30: 1281-1282.

Gurevitch, J. 1999 Review of: D.M. Richardson, ed. *Ecology and Biogeography of Pinus*. 1998. *Quart. Rev. Biol. (QRB)* 74: 232.

L. Hyatt and J. Gurevitch. 1998 Review of: Brock, J.H., et al., eds. 1997. *Plant Invasions: Studies from North America and Europe*. *Quart. Rev. Biol.* 73:508-9.

Floyd, T. and J. Gurevitch. 1997 Statistical commonsense and complexity. Book review of: Underwood, A.J. 1997. *Experiments in Ecology*. *TREE* 10:410-411.

Gurevitch, J. 1996 Review of: Whelan, R.J. 1995. *The Ecology of Fire*. *QRB* 71:439-440.

RECENT POPULAR PUBLICATIONS

J. Gurevitch. *Lovely Enemy*. 2009. Op Ed (full page), *Newsday*, Sunday Aug. 16, 2009. Article on invasive plants, published in Long Island's only daily newspaper (pop. ca. 3 million)

WORKING GROUPS, WORKSHOPS AND COURSES ORGANIZED, FUNDED AND CONDUCTED

NATIONAL CENTER FOR ECOLOGICAL ANALYSIS AND SYNTHESIS (NCEAS) AND

NATIONAL EVOLUTIONARY SYNTHESIS CENTER (NESCENT)

- 2009 **J. Gurevitch**, G. A. Fox, G. Wardle, M. Taub, Inderjit; Short term visiting group, Conceptual syntheses in invasion biology, NESCent, Durham NC
- 2009 NESCent, Durham, NC Meta-analysis in Ecology & Evolution (with K. Mengersen and Marc LaJeunesse)
- 2006-08 J. Koricheva and **J. Gurevitch**; Meta-analysis in ecology: Lessons, challenges and future. Funded by NCEAS, Santa Barbara.
- 1999-2000 A. Liebhold and **J. Gurevitch**; Integrating the statistical modeling of spatial data in ecology. Funded by NCEAS, Santa Barbara.

SYMPOSIA ORGANIZED

- 2002 Spatial statistics in ecological and evolutionary research. American Society of Naturalists, Banff, Alberta, Canada.
- 2000 Thirty Questions for Ecology in the 21st Century (with N. Huntly, co-organizer). ESA annual meeting, Snowbird, UT.
- 1996 Meta-analysis in ecology (with Peter Curtis, co-organizer). ESA annual meeting, Providence, RI; *Participants*: P. Curtis, J. Gurevitch, D.E. Wooster & A. Sih, A. Tonhasca, M.T. Brett and C.R. Goldman, E. Fernandez-Duque and C.R. Vallengia, X. Wang, and L. V. Hedges.
- 1994 The future of funding for ecological research. AIBS/ ESA annual meetings, Knoxville, TN; *Participants*: J. Gurevitch, Thomas Lovejoy & Rosina Bierbaum, Michael Gough, Roger Dahlman & Jerry W. Elwood, Anthony Janetos, James R. Gosz, Diana W. Freckman
- 1989 Evaluating the experimental manipulations of natural plant communities: what we have learned and what remains to be learned. ESA annual meeting, Toronto, Canada; *Participants*: J. Gurevitch, N. Fowler & J. Travis, N. Huntly, D. Wedin & D. Tilman, D. Goldberg & A. Barton, S. Pickett & E. Squiers, J. Denslow

INVITED WORKSHOP AND COURSE PARTICIPANT

- 2008 Swiss Federal Research Institute, Ecological Genetics & Evolution, Zurich,
Meta-analysis in Ecology and Evolution
- 2005 Ecological meta-analysis, University of Calgary
- 2002 Meta-analysis, Pymatuning Biological Station, Univ. Pittsburgh
- 1999 Cross-biome synthesis of ecosystem responses to global warming, NCEAS
- 1996 International Tundra Experiment synthesis, NCEAS, Santa Barbara
- 1996-98 Meta-analysis in ecology, at the National Center for Ecological Analysis and
Synthesis (NCEAS), Santa Barbara
- 1994-96 Bodega Field Conference, UC-Davis

INVITED PRESENTATIONS (since 2000)

- 2009 Odum Conference, E.N. Huyck Preserve & Rensselaerville Institute, Rensselaerville
NY (**Keynote speaker**)
Department of Biological Sciences, Binghamton University, Binghamton NY
- 2008 Ecology, Evolution and Behavior, University of Texas, Austin
Biological Sciences, University of Central Florida
Swiss Federal Research Institute, Research Unit Ecological Genetics & Evolution,
Zurich
- 2007 Alien Species: Environment, Biorisks, Future. Univ. of Turku, Turku, Finland
Meta-analysis: a practical perspective; British Ecological Society, Glasgow
- 2006 Plant Biology/DOE Plant Research Lab, Michigan State University, Lansing MI
Biology, Ecology and Management of the World's Worst Plant Invasive Species;
Delhi, India (**Keynote speech**)
- 2005 Ecology, Evolution and Environmental Biology and Center for Environmental
Research and Conservation, Columbia University, New York City, NY
Ecology, Evolution and Natural Resources, Rutgers University, New Brunswick, NJ
Biology, Swarthmore College, Swarthmore, PA
Biology, Indiana University, Bloomington IN

INVITED PRESENTATIONS (CON'T.)

- 2004 Harvard Forest, Harvard University, Petersham, MA
Biology of Invasions, Beijing, China
C.T. de Wit Graduate School, Wageningen Univ., Netherlands. **Keynote speech**, annual symposium.
- 2003 Ecology and Evolution, Stony Brook University
- 2002 Biology, Maquarie University, Sydney, Australia
Symposium at American Society of Naturalists annual meeting, Banff, Canada
Evolution, Ecology, & Organismal Biology, The Ohio State University
- 2001 Dept. Biological Sciences, Pymatuning Biological Station, Univ. Pittsburgh
Pine Barrens Research Conference, Brookhaven National Laboratory, Upton, NY
The Living World: a public lecture series, Stony Brook, NY
- 2000 Long Island Botanical Society
Blandy Experimental Farm, University of Virginia
Symposium at ESA annual meeting, Snowbird, Utah
Department of Biological Sciences, University of South Florida, Tampa

UNIVERSITY TEACHING

Undergraduate Courses Taught at Stony Brook

General Ecology, BIO 351

Plant Ecology, BIO 385

Principles of Biology, BIO 151 (former Intro Bio for majors, co-taught)

Fundamentals of Biology, BIO 201 (Intro Bio for majors, co-taught/ course director)

An Introduction to Stony Brook, USB 101

Freshman Seminar: Critical Issues in the Environment, SSO 102

Graduate Courses and Seminars Taught

Principles of Ecology, BEE 550 (with C. Janson and J. Thomson)

Advanced Ecology, BEE 560 (with J. Thomson and L. Slobodkin)

Research Design and Analysis in Ecology and Evolution, BEE 585

Seminars: The synthesis of quantitative genetics and physiological ecology; Agricultural ecology; The ecology of pine barrens; Invasive species; Ecological meta-analysis & others; Biotic responses to global climate change, and others

Undergraduate Honors college advisor, 2002-2008

COMMUNITY SERVICE

Organized workshop on career choices and opportunities for women in science, March 27, 1990, held at State University of New York at Stony Brook.

Participant and invited speaker (careers in science), The Academy of St. Joseph, Brentwood, NY, April 1990.

Symposium for Girls Exploring Math and Science, held at State University of New York at Stony Brook on January 11, 1994; participant.

Supervised **semifinalist-winning Westinghouse** project, Loren Wittie, 1995

Invited speaker, “Meet the Professor” coffee, freshmen/sophomores, Langmuir Dorm, SUNY–Stony Brook; October 30, 1997

Invited faculty guest, Hand Residential College, Dept. of Residential Programs, SUNY–Stony Brook; November 18, 1998

Judge, Shipley-Ronal Regional Invitational Science Fair, Nassau Co. NY, May 2000

Presentation/ hands-on program on Fire Ecology and the Long Island Pine Barrens, Edna Louise Spear Elementary School, Gifted and Talented Program, October 2004

Supervised **Intel semi-finalist** research project, Zachary Hollander (Great Neck North High School), 2005-2007

Supervised Intel contestant Ross Zhang, 2007-2008