JESSICA GUREVITCH

CURRICULUM VITAE

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PROFESSIONAL EXPERIENCE

2023 -	Professor and Head, Department of Forestry and Natural Resources, Purdue University
2021 – 2022	Department Co-Chair, Ecology and Evolution, Stony Brook University
2018 – 2022	Distinguished Professor, State University of New York
2000 – 2018	Professor, State University of New York at Stony Brook
2012	Visiting Professor, New York University (Sabbatical leave)
2006 – 2012	Chair, Department of Ecology and Evolution, Stony Brook University
2002	Visiting Professor, Macquarie University, Sydney, NSW, Australia (Sabbatical)
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., Biological Sciences /Ecology, Evolution & Systematics, Cornell University

Professional Service – elected positions (*Selected*, *2005 – present*)

2016 – 2022	Secretary/Member of the Governing Board, Ecological Society of America (elected)
2014 – 2016	President-elect, President, Past-President, Society for Research Synthesis Methodology
2013 – 2016	Biological Sciences Council Delegate, AAAS
2012 – 2020	Council Member, International Association for Vegetation Science
2008	Member (elected), Society for Research Synthesis Methodology
2005 – 2007	Executive Vice President, Society for the Study of Evolution

Professional Service, Honors and Memberships

2015 – 2020	Member, Subcommittee on Fellows, AAAS
2014	Fellow, Stellenbosch Institute for Advanced Studies, Stellenbosh, South Africa
2013	Fellow of the Ecological Society of America
2012 – 2016	Chair, Ecological Society of America Fellowships & Awards Committee
2012 – 2019	Faculty of 1000, Contributing Member
2012 – 2018	Scientific Advisory Board, Alan Alda Center for Communicating Science
2010	Fellow, the American Association for the Advancement of Science
2011 – Present	Editorial Board, Ecology and Evolution
2011 – 2020	Editorial Board, Israel Journal of Ecology and Evolution
2009	University of Massachusetts accreditation review panel member, NEASC
2009	SUNY Strategic Plan, Group of 200 Delegate (invited by SUNY Chancellor)
2008 - 2013	Editorial Board, Biology Letters
2006	Dean's Award for Excellence in Graduate Teaching
2004 - Present	Editorial Board, Journal of Vegetation Science
2004 - Present	Associate Editor, Ecology Letters
current	*Reviewer of manuscripts* 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
	External reviewer of grant proposals for NSF, the Department of Energy, the Department of Agriculture, national counterparts in Israel, Germany, and others
	Tenure and promotion reviews (confidential; various universities worldwide)
	Memberships: American Association for the Advancement of Science, Ecological Society of America, Society for Research Synthesis Methodology, IAVS, Sigma Xi

Students and Postdoctoral Researchers

MAJOR ADVISOR, PH.D. STUDENTS:

Janet Morrison (Ph.D. 1994; Barbara Meyers Pelson '59 Professor, The College of New Jersey)
Proserpina Gomez Roxas (Ph.D. 1996; Professor and Chancellor, Mindanao State Univ. Naawan, Philippines)
Paul Teese (Ph.D. 1997, Curator (retired), Bowman's Hill Preserve, PA)
Daniel Taub (Ph.D. 1997; Professor, Southwestern University, Texas)
Wei Fang (Ph.D. 2003, independent researcher)
Kerry Brown (Ph.D. 2004, Senior Lecturer, Kingston University, London, UK)
Eliza Woo (Ph.D., 2008, Faculty member, City College of San Francisco, CA)
Rebecca Grella (Ph.D. 2012, Research Director and Teacher, Brentwood High School, NY)
Emily Rollinson (Ph.D. 2015, Assistant Professor, East Stroudsburg University, PA)
Morodoluwa Aikin-Fajiye (Ph.D. 2019, Postdoctoral Fellow, Thompson Rivers University, B.C., Canada)
Nicole Kinlock (Ph.D. 2020, Postdoctoral Fellow, University of Konstanz, Germany)
Urmi Poddar (entered Fall 2018)
Ashley Morris (entered Fall 2018)

DOCTORAL COMMITTEES (SINCE 2001):

Christopher Jensen
Jonathan Hickman
Joshua Banta
Andre Tiu
Heather Throop
Jennifer Funk
Isabel Ashton
Catherine McGlynn
Norah Warchola
Sarah Gray
Matthew Aiello-Lammens
Niamh O'Hara
Michael McCann
Mary Alldred
Nicolette Sipperly
Rachael Sclafani

***OUTSIDE PH.D. COMMITTEE MEMBER, VISITING PH.D. STUDENTS AND INTERNATIONAL SCHOLARS*:**

Myla Aronson, Ph.D. 2006, Rutgers University
Krista Thyberg, Ph.D. 2015, Dept. Tech. & Soc., Stony Brook University
Professor Frank Yu (2015-2016), Yunnan University, visiting scholar
Shijia Peng, (2017-2018) Ph.D. 2018, Sun Yat Sen University, Guangzhou, China (visiting)
Vanessa Mariano da Silva (2018-2019), Ph.D. student, Federal University of São Carlos, São Carlos, Brazil

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), James Mickley (2010), Tracy Scott (2011), Adam Laybourn (2011), Leanne Merrill (2011), Brittany Hernon (2012), Kyle Kesel (2012), Jason O'Rawe (2012), Lisa Dittmar (2015), Hansol Lee (2015), Khum Thappa Magar 2016), Jie Ren (2016), Charlee Weidman (2016), Huijie Zhang (2017), Shanxing Gong (2017), Idamarie Pennolino (2020), Qinnan Zhu (2021)

POSTDOCTORAL SUPERVISOR:

M. Genoveva Rodriguez-Casteneda (2012-2013, Ph.D. Tulane; Consultant, Esperantza LLC)
D. Edward Lowry (2009-2012, Ph.D. UC Santa Barbara, now Assoc. Prof. Hampden-Sydney College, VA)
Elizabeth Leger (2004-5, Ph.D., UC Davis, now Assoc. Professor at Univ. Nevada, Reno)
Katherine Howe (2003- 2004; Ph.D., Univ. Washington; Coordinator, Midwest Invasive Plant Network, The Nature Conservancy, Indianapolis IN)
Laura Hyatt (1998-2002; Ph.D., Univ. Pennsylvania, now Dean Science/Math, West Valley College, Univ Pennsylvania)
R. Matthew Landis (1999-2001; Ph.D., Dartmouth; now Assoc. Sci. Instr., Middlebury College)
Maria N. Miriti (1999-2002; Ph.D., Univ. Ill./Chicago; now Assoc. Prof., Ohio State University)
Timothy Howard (1998-2000; Ph.D., U. Mich.; now Ecologist, NYS Natural Heritage Program)

Grants and Fellowships

2021 – 2024	MCA: A Meta-analytic approach to resolving mechanisms of plant-soil-herbivore interactions. NSF DEB 08010000, Jennifer Krumins PI, J. Gurevitch co-PI, $241,421 total ($39,774 to JG).
2018-2023	Incorporating EDDMaps and range trend data into a systems approach to identify and manage invasive plant hotspots in Utah. Utah State through Utah State University, subcontract.
2019-2023	Collaborative Proposal: Workshop on Ecological Impacts of Solar Radiation Management Geoengineering, NSF DEB 1937619 (PI; $26,709 to JG).
2019-2021	OPUS: CRS. Experiments, meta-analysis and big data in advancing ecological research. $146,057. NSF DEB 1909233.
2014-2016	S. Handel, Rutgers University and J. Gurevitch: Restoration of Jamaica Bay Fringing Habitats: post-Sandy status and new approaches for a resilient future. National Parks Service, $20,000 to JG.

2013-2016	J. Gurevitch, lead PI, Collaborative research: ABI Development: Making Advanced Statistical Tools Accessible for Quantitative Research Synthesis and Discovery in Ecology and Evolutionary Biology. (With Marc Lajeunesse, Univ. South Florida, and Byron Wallace, Thomas Trikalinos and Christopher Schmid, Brown University.) NSF 1262402, $901,243 total funded
2011-2015	J. Gurevitch, lead PI, Catherine Graham, Co-PI: Collaborative research: Demographic heterogeneity at landscape scales in an emergent invasive species, *Centaurea stoebe*, in New York State (with Norma Fowler, Univ. Texas), NSF 1119891, $803,956 total funded
2012	J. Gurevitch: Early detection and monitoring of an emerging invasion: population growth and expansion of spotted knapweed (*Centaurea stoebe*) in Suffolk County, Long Island. NYS Natural Heritage Program ($25,000)
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: support for 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, 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
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, Ecology and Mathematics, $26,500.
1991	J. Gurevitch, PI: 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 $134,634.
1989	J. Gurevitch: Katherine Putnam Fellowship, Arnold Arboretum of Harvard University.

Publications

Citations: (to 09/2022): 29,652 *Google Scholar*/H index 60; 15,023 *Clarivate Web of Science* /H index 46, average 160 citations per paper (Web of Science excludes chapters, books, software)

***BOOKS PUBLISHED*:**

Gurevitch, J., S.M. Scheiner and G.L. Fox. 2020. *The Ecology of Plants*, *3rd Ed*. Sinauer Assoc./Oxford University Press, Oxford, UK and New York, NY, USA (undergraduate text)

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

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

Koricheva, J., J. Gurevitch and K. Mengersen, eds. 2013. *Handbook of Meta-analysis in Ecology and Evolution*. (Princeton Univ. Press; graduate/ professional level)

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.

ARTICLES, CHAPTERS AND LETTERS PUBLISHED IN PEER-REVIEWED JOURNALS

2022

Gurevitch, Jessica. 2022. Managing forests for competing goals. SCIENCE vol 376 Issue 6595 pp. 792-793 DOI: 10.1126/science.abp8463

2021

O'Dea, R.E., Lagisz, M., Jennions, M.D., Koricheva, J., Noble, D.W.A., Parker, T.H., Gurevitch, J., Page, M.J., Stewart, G., Moher, D., Nakagawa, S., n.d. Preferred reporting items for systematic reviews and meta-analyses in ecology and evolutionary biology: a PRISMA extension. Biol. Rev. 2021. https://doi.org/10.1111/brv.12721

Phoebe L. Zarnetske*, Jessica Gurevitch* [lead authors], Janet Franklin, Peter Groffman, Cheryl Harrison, Jessica Hellmann, Forrest M. Hoffman, Shan Kothari, Alan Robock, Simone Tilmes, Daniele Visioni, Jin Wu, Lili Xia, Cheng-En Yang. 2021. Potential ecological impacts of climate intervention by reflecting sunlight to cool Earth. PNAS 2021 Vol. 118 No. 15 e1921854118; https://doi.org/10.1073/pnas.1921854118

Gurevitch, J., Jadotte, Y. and A. Moyer. 2021. Meta-analysis in the Social Sciences. (Chapter) The Cambridge Handbook of Research Methods and Statistics for the Social and Behavioral Sciences, Volume 1 edited by Austin Lee Nichols; John Edlund. *In press.*

2020

Stephan Kambach, Helge Bruelheide, Katharina Gerstner, Jessica Gurevitch, Michael Beckmann and Ralf Seppelt. 2020. Consequences of multiple imputation of missing standard deviations and sample sizes in meta-analysis. Ecology and Evolution: DOI.org/10.1002/ece3.6806

Ebbets, AL, Lane, DR, Dixon, P, Hollweg, TA, Huisenga, MT , and Gurevitch, J . 2020. Using meta-analysis to develop evidence-based recovery trajectories of vegetation and soils in restored wetlands in the northern Gulf of Mexico. Estuaries and Coasts 43: 1692-1710 (special issue)

Wurbel, H, Voelkl, B, Altman, NS, Forsman, A, Forstmeier, W, Gurevitch, J, Jaric, I, Karp, NA, Kas, MJ, Schielzeth, H, and Van De Casteele, T. 2020. Reply to *'It is time for an empirically informed paradigm shift in animal research*' (letter). Nature reviews neuroscience: DOI: 10.1038/s41583-020-0370-7

Voelkl, B, Altman, NS, Forsman, A, Forstmeier, W, Gurevitch, J, Jaric, I, Karp, NA, Kas, MJ, Schielzeth, H, Van De Casteele, T, and Wurble, H. 2020. Reproducibility of animal research in light of biological variation. Nature Reviews Neuroscience 21: 384-393. Doi: 10.1038/s41583-020-0313-3

Schulz, AN, Mech, AM, Allen, CR, Ayres, MP, Gandhi, KJK, Gurevitch, J, Havill, NP, Herms, DA, Hufbauer, RA, Liebhold, AM, Raffa, KF, Raupp, MJ, Thomas, KA, Tobin, PC, and Marsico, TD. 2020. The impact is in the details: evaluating a standardized protocol and scale for determining non-native insect impact. Neobiota 55: 61-83. DOI: 10.3897/neobiota.55.38981

Akin-Fajiye, Morodoluwa; Gurevitch, Jessica. 2020. Increased reproduction under disturbance is responsible for high population growth rate of invasive *Centaurea stoebe*. Biological Invasions 22: 1947-1956

2019

Mech, AM, Thomas, KA, Marsico, TD, Herms, DA, Allen, CR, Ayres, MP, Gandhi, KJK, Gurevitch, J, Havill, NP, Hufbauer, RA, Liebhold, AM, Raffa, KF, Schulz, AN, Uden, DR, and Tobin, PC. 2019. Evolutionary history predicts high-impact invasions by herbivorous insects. Ecology and Evolution 9: 12216-12230. DOI: 10.1002/ece3.5709

Kinlock, NL, Prowant, L, Herstoff, EM, Foley, CM, Akin-Fajiye, M, Bender, N, Umarani, M, Ryu, HY, Sen, B, and Gurevitch, J. 2019. Open science and meta-analysis allow for rapid advances in ecology: A response to Menegotto et al. (2019). Global Ecology and Biogeography 28: 1533-1534. DOI: 10.1111/geb.12964 (Letter)

Peng, Shijia, Nicole L. Kinlock, Jessica Gurevitch, and Shaolin Peng. 2018. Correlation of native and exotic species richness: a global meta-analysis finds no invasion paradox across scales, Ecology (open access) https://doi.org/10.1002/ecy.2552 . Data: edi.548.1

Beckmann, M., K. Gerstner, M. Akin-Fajiye, S. Ceaușu, S.n Kambach, N.L. Kinlock, H.R.P. Phillips,W. Verhagen, J. Gurevitch, S. Klotz, T. Newbold, P.H. Verburg, M. Winter and R. Seppelt. 2019. Conventional land-use intensification reduces species richness and increases production: A global meta-analysis. Global Change Biology. doi.org/10.1111/gcb.14606 Data: edi.529.1

2018

Gurevitch, Jessica, Julia Koricheva, Shinichi Nakagawa and Gavin Stewart. 2018. Meta-analysis and the science of research synthesis. Nature 555, pages 175–182, doi:10.1038/nature25753.
This paper was ranked by Altmetric In the top 5% of all research outputs and in the 99th% for High Attention Score compared to outputs of the same age.

Trisos, Christopher H., Giuseppe Amatulli, Jessica Gurevitch, Alan Robock, Lili Xia, & Brian Zambri. 2018. Potentially dangerous consequences for biodiversity of solar geoengineering implementation and termination.Nature Ecology and Evolution 2:475–482.https://doi.org/10.1038/s41559-017-0431-0
This paper was ranked by Altmetric in the 99.97th percentile of 152,000 articles of similar age for outreach in news outlets/publications and social media

Kinlock, Nicole L., Prowant, Lisa; Herstoff, Emily M., Foley, Catherine M., Akin-Fajiye, Morodoluwa, Bender, Nicole, Umarani, Mihir, Ryu, Hae Yeong, Sen, Bilgecan and Gurevitch, Jessica. 2018. Explaining global variation in the latitudinal diversity gradient: Meta-analysis confirms known patterns and uncovers new ones. Global Ecology & Biogeography 27: 125-141. Data: edi.547.1

Parker, Timothy H. , Simon C. Griffith, Judith L. Bronstein, Fiona Fidler, Susan Foster, Hannah Fraser, Wolfgang Forstmeier, Jessica Gurevitch, Julia Koricheva, Ralf Seppelt , Morgan W. Tingley and Shinichi Nakagawa. 2018. Empowering peer reviewers with a checklist to improve transparency. Nature Ecology & Evolution 2:929–935.

Akin-Fajiye, Morodoluwa and J. Gurevitch. 2018. The influence of environmental factors on the distribution and density of invasive *Centaurea stoebe* across NE USA. Biol. Inv.20: 3009-23. Data: edi.584.1

2017

Hui, C., G.A. Fox, and J. Gurevitch. 2017. Scale-dependent portfolio effects explain growth inflation and volatility reduction in landscape demography. PNAS 114: 12507-12511

Gerstner, K., Moreno-Mateos, D., Gurevitch, J., Beckmann, M., Kambach, S., Jones, H. P. and Seppelt, R. 2017. Will your paper be used in a meta-analysis? Make the reach of your research broader and longer lasting. Methods in Ecology and Evolution. doi:10.1111/2041-210X.12758

2016

Wallace, B.C., M. J. Lajeunesse, G. Dietz, I.J. Dahabreh, T.A. Trikalinos, C.H. Schmid, and J. Gurevitch. 2016. OpenMEE: Intuitive, open-source software for meta-analysis in ecology and evolutionary biology. Methods in Ecology and Evolution. doi: 10.1111/2041-210X.12708

Gurevitch, J., G.A. Fox, N.L. Fowler and C.H. Graham. 2016. Landscape demography: Population change and its drivers across spatial scales. The Quarterly Review of Biology 91: 459-484.

Yu, F.K., Akin-Fajiye, Morodoluwa, Magar, Khum Thapa, Ren, Jie, and Jessica Gurevitch. 2016. A global systematic review of ecological field studies on two major invasive plant species, *Ageratina adenophora* and *Chromolaena odorata*. Diversity and Distributions 22: 1174-1185.

Parker, T.H., S. Nakagawa, J. Gurevitch and IIEE Improving Inference group. 2016. Promoting transparency in evolutionary biology and ecology. Ecology Letters 19: 726-728. (editorial)

Hillebrand H. and J. Gurevitch. 2016. Meta-analysis and Systematic Reviews in Ecology. Encyclopedia of Life Sciences, Wiley, London and NY http://www.els.net/WileyCDA/ElsArticle/refId-a0003272.html

Rest, Joshua S., Olivia Wilkins, Wei Yuan, Michael D. Purugganan and Jessica Gurevitch. 2016. Meta-analysis and meta-regression of transcriptomic responses to water stress in Arabidopsis. The Plant Journal 85: 548-560

Seppelt, Ralf, Michael Beckmann, Silvia Ceausu, Anna F. Cord, Katharina Gerstner, Jessica Gurevitch, Stephan Kambach, Stefan Klotz, Chase Mendenhall, Helen R. P. Phillips, Kristin Powell, Peter H. Verburg, Willem Verhagen, Marten Winter, Tim Newbold. 2016. Harmonizing Biodiversity Conservation and Productivity in the Context of Increasing Demands on Landscapes .BioScience 66:890-896. doi: 10.1093/biosci/biw004

Parker, T.H., W. Forstmeier, J. Koricheva, F. Fidler, J.H. Hadfield, Y. En Chee, Clint. D. Kelly, J. Gurevitch, and Shinichi Nakagawa. 2016. Transparency in ecology and evolution: real problems, real solutions. Trends in Ecology and Evolution 31: 711-719.

Parker, T.H., E. Main, S. Nakagawa, J. Gurevitch, F. Jarrad, and M. Burgman. 2016. Promoting transparency in conservation science. Conservation Biology 30, 1149-1150.

2015

Gurevitch, J. and S. Nakagawa. 2015. Research synthesis and meta-analysis. *In:* Gordon A. Fox, Simoneta Negrete-Yankelevich, and Vinicio J. Sosa, Eds. Ecological Statistics: Contemporary theory and application. Oxford University Press, Oxford, pp. 200-227.

Blaustein, L., Kadas, G.J., J. Gurevitch. 2015. Integrating ecology into green roof research. Israel Journal of Ecology and Evolution 62: 1-6.

Kinlock, N.L., B.Y. Schindler and J. Gurevitch. 2015. Biological invasions in the context of green roofs. Israel Journal of Ecology & Evolution 62: 32-43.

Thyberg, Krista L., David J. Tonjes, and Jessica Gurevitch. 2015. Quantification of Food Waste Disposal in the United States: A Meta-Analysis. Environ. Sci. Technol. 49: 13946:13943. Data: edi.553.1

2014

Hillebrand, H. and J. Gurevitch. 2014. Meta-analysis results are unlikely to be biased by differences in variance and replication between ecological lab and field studies. Oikos 123:794-799.

Koricheva, J. and J. Gurevitch. 2014. Uses and misuses of meta-analysis in plant ecology. Journal of Ecology 102:828-844 doi: 10.1111/1365-2745.12224

2013

Lowry, E., E. J. Rollinson, A.J. Laybourn, T. E. Scott, M. E. Aeillo-Lammens, S. M. Gray, J. Mickley and J. Gurevitch. 2013. Biological invasions: a field synopsis, systematic review and database of the literature. Ecology and Evolution 3: 182-196. Data: edi.540.1

Hillebrand, H. and J. Gurevitch. 2013. Reporting standards in experimental studies. (Editorial) Ecology Letters 16:1419-1420. DOI:10.1111/ele.12190

2012

Correa, A., J. Gurevitch, M. A Martins-Loucao, and C. Cruz. 2012. C allocation to the fungus is not a cost to the plant in ectomycorrhizae. Oikos 121: 449-463. Data: edi.531.1

Conord, C., B. Fady and J. Gurevitch. 2012. Large scale longitudinal gradients of genetic diversity: a meta-analysis across six phyla in the Mediterranean basin. Ecology and Evolution 2: 2600-14. DOI: 10.1002/ece3.350 Data: edi.530.1

2011

Gurevitch, J., G. A. Fox, G. M. Wardle, Inderjit and D. Taub. 2011. Emergent insights from the synthesis of conceptual frameworks for biological invasions. Ecology Letters 14: 407-418.

2010

Gurevitch, J. and K. Mengersen. 2010. A statistical view of research synthesis of patterns of species richness along productivity gradients: devils, forests and trees. Ecology 91: 2553-2560.

Gurevitch, J. 2010. Invasions and plant competition. In: Encyclopedia of Invasive Introduced Species, D. Simberloff and M. Rejmanek, eds. Univ. California Press, Berkeley CA.

2009

Dukes, J.S., J. Pontius, D. Orwig, J.R. Garnas, V.L. Rodgers, N.Brazee, B. Cooke, KA. Theoharides, E.E. Stange, R. Harrington, J. Ehrenfeld, J. Gurevitch, M. Lerdau, 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.

2008

Gurevitch, J. 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. Data: edi.537.1

2007

Leger, E. A., 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. Data: edi.546.1

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

Fang, W., 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.

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

2005

Landis, R. M., 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.

Ashton, I.W., 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. Ecol. App. 15:1263-72.

2004

Legendre, P., M.R.T. Dale, M-J. Fortin, P. Casgrain and J. Gurevitch. 2004. 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.

Howard, T.G., J. Gurevitch, L. Hyatt and M. Carreiro. 2004. Forest invasibility in communities in southeastern New York. Biological Invasions 6: 393-410. Data: edi.538.1

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. 2003. The distance dependence prediction of the Janzen-Connell hypothesis: a meta-analysis. Oikos 103: 590-602. Data: edi.545.1

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

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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. 1999. Empirical approaches to quantifying interaction intensity: competition and facilitation along productivity gradients. Ecology 80:1118-1131.

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Gomez, P. and J. Gurevitch. 1998. Weed community responses in a corn-soybean intercrop. Applied Vegetation Science 1:281-288. Data: edi.536.1

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

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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. Data: edi.541.1

1994

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

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

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.

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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 C_3- and C_4- 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.

1986

Gurevitch, J. Competition and the local distribution of the grass *Stipa neomexicana*. 1986. Ecology 67:46-57. Data: edi.532.1

Gurevitch, J. 1986. Restriction of a C_3 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.

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Teeri, J.A. and J. Gurevitch. 1984. Environmental and genetic control of Crassulacean acid metabolism in two Crassulacean species and an F_1 hybrid with differing biomass $\delta^{13}C$ 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.

1979

Schaffer, W.M., Jensen, D.B., Hobbs, D.E., Gurevitch, J. Todd, J.R. and Schaffer, M.V. 1979. Competition, foraging energetics, and the cost of sociality in 3 species of bees. Ecology 60:976-987 DOI10.2307/1936866

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.

Dietz, G., B. C. Wallace, M. J. Lajeunesse, C.H. Schmid, T. A. Trikalinos, and J. Gurevitch. 2014. OpenMEE: Software for Ecological & Evolutionary Meta-Analysis. http://www.cebm.brown.edu/open_mee

POPULAR PUBLICATIONS

Tonjes, David and Jessica Gurevitch. 21 May 2021. Trash Talk: Garbage and the Infrastructure Bill (retitled, Better ways to manage LI's trash). Newsday Opinion article.

J. Gurevitch. *Lovely Enemy*. 2009. Op Ed (full page), Newsday, Sunday Aug. 16, 2009. Article on invasive plants, published in the daily newspaper of Long Island, NY (Population >3 million people)

Invited Working Groups, Workshops and Short Courses

SHORT COURSES TAUGHT AND INVITED WORKSHOP LEADER (2009-PRESENT)

2022	Ecological Impacts of Geoengineering, Sunday River, ME (Organizer)
2020	Ecological Impacts of Geoengineering (Organizer, with P. Zarnetske, virtual, multidisciplinary)
2019	Göteborg University, Biology & Env. Sci., Marine station at Tjärnö, Sweden
	Meta-analysis in ecological research, Trinity College, Dublin, Ireland
	Workshop on norm of reaction approaches to pre-clinical animal trials, Vevey, Switzerland (participant)
	Meta-analysis in ecological research, Yunnan University, Kunming, China
2017	La Universidad Central "Marta Abreu" de Las Villas, Santa Clara, Cuba
	Mehidol University, Bangkok, Thailand, Meta-analysis and systematic reviews
2016	University of Haifa, Israel, Meta-analysis and population modeling (with N. Fowler)
	University of Puerto Rico, Rio Piedras, Quantitative methods in ecology, week-long invited course
	Göteborg University, Biology & Env. Sci., Marine station at Tjärnö, Sweden
2015	German Centre for Integrative Biodiversity Research, Leipzig, Germany, Land Use, Biodiversity and Ecosystem Services
	Evolution 2015, Guarujá, Brazil (with Marc Lajeunesse)
2014	CESAB, Aix-en-Provence, France, Meta-analysis and systematic reviewing
	Göteborg University, Biology & Env. Sci., Marine station at Tjärnö, Sweden
	SESYNC, Annapolis, MD: Land Use, Biodiversity and Ecosystem Services
2013	University of Delhi, Delhi, India, Centre for Environ. Management Degraded Ecosystems
	University of Lisbon, Lisbon, Portugal
	Carl-von-Ossietzky University Oldenberg, Oldenberg, Germany
	All: Meta-analysis and systematic reviews in Ecology and Evolution
2012	Swiss Federal Research Institute, Ecological Genetics & Evolution, Zurich, Meta-analysis in Ecology and Evolution
2010	Current practice in meta-analysis in ecology; Hebrew University, Rehovot campus, Israel

2009 J. Gurevitch, G. A. Fox, G. Wardle, M. Taub, Inderjit; Short term visiting group, Conceptual syntheses in invasion biology, funded by NESCent, Durham NC
J. Gurevitch, K. Mengersen and M. LaJeunesse. NESCent, Durham, NC. Short course in Meta-analysis in Ecology & Evolution

Invited Presentations (since 2006)

2022 What Impacts Would SAI Have on Ecology?: What We need to Know. Gordon Research Conference on Geoengineering, June, Sunday River, ME
2022 The future of ecological research synthesis: the next 30 years and beyond. Invited, Organized Oral Session, Ecological Society of America
2021 Future of Synthesis, National Center for Ecological Synthesis, 2 Day symposium (Keynote speaker, virtual)
2020 Moore Lecture, Dept. Environmental Sciences, University of Virginia
Ecological Society of America Annual Meeting, Special Highlighted Poster (virtual)
University of Liverpool, UK, Institute of Risk and Uncertainty (virtual)
Center for Climate Intervention Strategies, National Center for Atmospheric Research, Boulder, CO (virtual)
2019 Graduate Student invited speaker, Ecology and Evolutionary Biology, Univ. Connecticut
Society for Research Synthesis Methodology annual meeting, Chicago, IL
Trinity College, Dublin, Ireland
Distinguished Ecologist, Graduate Degree Program in Ecology, Colorado State University
Yunnan University, Kunming, China
2018 Binghamton University, Biology
GeoMIP 8, Zurich, Switzerland (Climate Science)
Dept. Zoology, Oxford University, UK
2017 La Universidad Central "Marta Abreu" de Las Villas, Santa Clara, Cuba
Plenary lecture, Botanical Conference of Thailand 2017, Mahidol University, Bangkok
University of British Columbia-Okanagan, Canada
2016 Presidential Address, Society for Research Synthesis Methodology, Florence, Italy
Pennsylvania State University, Intercollegiate Graduate Program in Ecology
Hebrew University, Ecology and Evolution
University of Puerto Rico, Ecology and Evolutionary Biology
2015 Cornell University, Northeastern IPM Center and School of Integrative Plant Sciences
East Carolina University, Biology
2014 Institute for Ecosystem Studies, Millbrook, NY
Stellenbosch Institute for Advanced Studies
2013 University of Vermont, Biological Sciences
Center Invasive Biology, Stellenbosch University, South Africa
Biological Sciences, University of Delhi, Delhi, India
INRA, *Ecologie des Forêts Méditerranéennes (URFM)*, Avignon, France
Biological Sciences, University of Lisbon, Lisbon, Portugal
Ecology and Evolutionary Biology, Princeton University, Princeton, NJ
Ecology and Evolutionary Biology, University of Arizona, Tucson

Philadelphia Botanical Club/Academy of Natural Sciences, Philadelphia
Institute for Chemistry and Biology of the Marine Environment (ICBM), Carl-von-Ossietzky University Oldenburg, Oldenberg, Germany
Biology, New York University, New York, NY

2012 Symposium, ESA Annual Meeting, Portland OR
Biological Sciences, Temple University, Phila. PA (Grad. student invited speaker)
Biological Sciences, Syracuse University, Syracuse NY
Environmental Studies, New York University, New York, NY
Endocrinology Department, Syracuse University, Syracuse NY
Douglas Lake Biological Station, Pellston, Michigan
BEF China research group, Wisch, Germany
2011 Biological Sciences, Arkansas State University, Jonesboro, AR
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)

University Teaching

Undergraduate Courses Taught at Stony Brook

Intermediate Statistics, BIO 384/BEE 584
General Ecology, BIO 351
Plant Ecology, BIO 385
Principles of Biology, BIO 151 (former Intro Bio for major)
Fundamentals of Biology, BIO 201 (Intro Bio for majors)
An Introduction to Stony Brook, USB 101
Freshman Seminars: Critical Issues in the Environment, SSO 102

Graduate Courses and Seminars Taught

Principles and Applications of Ecology and Evolution, BEE 576
Principles of Ecology, BEE 550
Advanced Ecology, BEE 560
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, Ecological Disasters, and others

Undergraduate Honors college advisor, 2002-2008

Community Service

Member, Conservation Advisory Board, Port Jefferson Village, New York 2013- 2021
Invited public talk, North Shore Jewish Center, January 2017
Invited talk on climate change, North Shore Jewish Center Seniors, Oct. 2017
Talk on biological invasions, Philadelphia Botanical Club, March 2013
Talk on the science of plants and water, Bala Cynwyd Middle School, PA, April 2012
Talk on life as a research scientist, Brooklyn Technical High School, Brooklyn NY Oct. 2012
Supervised Intel semi-finalist research, Zachary Hollander (Great Neck North High School), 2005-2007
Supervised Intel contestant Ross Zhang, 2007-2008
Presentation/ hands-on program on Fire Ecology and the Long Island Pine Barrens, Edna Louise Spear Elementary School, Gifted and Talented Program, October 2004
Judge, Shipley-Ronal Regional Invitational Science Fair, Nassau Co. NY, May 2000
Invited faculty guest, Hand Residential College, Dept. of Residential Programs, SUNY–Stony Brook; November 18, 1998
Invited speaker, "Meet the Professor" SUNY–Stony Brook; October 30, 1997
Symposium for Girls Exploring Math and Science, held at Stony Brook on January 11, 1994; participant.
Supervised semifinalist-winning Westinghouse project, Loren Wittie, 1995
Participant and invited speaker (careers in science), Academy of St. Joseph, Brentwood, NY, April 1990.
Organized workshop on career choices and opportunities for women in science, March 27, 1990, held at State University of New York at Stony Brook.