

CURRICULUM VITAE

Deborah E. Goldberg

ADDRESS

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EDUCATION

1974

B.A. Barnard College, Columbia University.
Magna cum laude. Major in biology.

1980

Ph.D. University of Arizona. Major in ecology,
minors in geology and soils.

PROFESSIONAL EXPERIENCE

2007-

Elzada U. Clover Collegiate Professor of Ecology and Evolutionary
Biology

2003-2013

Chair, Department of Ecology and Evolutionary Biology,
University of Michigan

2002-2003

Interim Director, Herbarium, University of Michigan

2002-2003

Associate Chair, Department of Ecology and Evolutionary Biology,
University of Michigan

2001-2002

Interim Chair, Department of Ecology and Evolutionary Biology,
University of Michigan

2001-

Professor, Department of Ecology and Evolutionary Biology,
University of Michigan

1998-2001

Professor, Department of Biology, University of Michigan

1989-1998

Associate Professor, Department of Biology,
University of Michigan

1992-1994

Associate Professor, Department of Life Sciences,

Ben Gurion University, Israel

- 1991 Lady Davis Visiting Professor, Hebrew University
- 1990-1991 Visiting Research Associate Professor,
Department of Biology, University of New Mexico
- 1983-1989 Assistant Professor, Department of Biology,
University of Michigan
- 1982-1983 Visiting Assistant Professor, W. K. Kellogg
Biological Station, Michigan State University
- 1981-1982 Research Associate, W. K. Kellogg Biological
Station, Michigan State University
- 1980-1981 Postdoctoral Fellow, W. K. Kellogg Biological
Station, Michigan State University

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Association for the Advancement of Science, Ecological Society of America,
British Ecological Society, International Association of Vegetation Science,
American Society of Naturalists

HONORS AND AWARDS

- 2012 Harold R. Johnson Diversity Service Award, University of Michigan
- 2012 Sarah Goddard Power Award, University of Michigan
- 2009 Distinguished Diversity Leaders Team Award, University of Michigan
- 2007-2011 Senior Fellow, Michigan Society of Fellows, UM
- 2007 Collegiate Professorship, UM

GRANT AWARDS IN SUPPORT OF RESEARCH AND TRAINING

- 2013-2014 UM Water Center: Assessing ecosystem services provided by restored
wetlands under current and future climate and land-use scenarios.
\$50,000. CoPrincipal Investigator.
- 2012-2014 NSF: Scaling up: Joint workshops on Continental-scale population and
community ecology and education. \$170,272. CoPrincipal Investigator
- 2012-2017 NSF: The M-STEM Academies at the University of Michigan: an integrated
approach to increase the number and diversity of undergraduates in
STEM disciplines. \$2,000,000. Principal Investigator.

- 2010-2015 NIH: Factors contributing to oral health disparities in Appalachia. \$2,316,292. Co-Investigator (DEG share: \$89,000)
- 2010-2014 NASA: Linking Remote Sensing and Process-Based Models to Better Understand the Influence of Land Use and Climate Changes on Great Lakes Coastal Wetlands. \$1,567,696. Co-Principal Investigator (DEG share: \$224,671)
- 2010-2014 NSF: The Michigan Biology Academy Scholars. \$603,738. Principal Investigator.
- 2008-2012 Norwegian Research Council: The role of seeds in a changing climate: linking germination ecophysiology to population and community ecology. \$1,607,000. Co-Principal Investigator (one of 5).
- 2007-2009 UM-OVPR: Urinary Catheter Biofilms. \$14,950. Co-Investigator.
- 2005-2006 UM Elizabeth Caroline Crosby Fund: Mechanisms of plant community dynamics. \$17,500.
- 2004-2006 NSF: Development of the NEON Coordinating Consortium (NCC) and Project Office. \$6,000,000. Co-Investigator.
- 2003 Office of the Vice President for Research and LSA, UM: Mechanisms and consequences of competition-colonization tradeoffs in clonal plants: from traits to processes to patterns. PI, \$14,156
- 2001-2006 NSF: Foraging in plants: Do plants selectively associate with more effective ectomycorrhizal fungi? \$286,268 (PI, with co-PI, D.R. Zak)
- 2002 Rackham Graduate School, UM, Relating vegetation dynamics to underlying processes. \$4,000
- 2001 MI DNR: Ecological regulations of plant invasions in southern Michigan fens. \$5000
- 2001 NSF: REU Supplement: Competitive ability of clonal plants: the roles of clonal integration and ramet aggregation in structuring plant communities. \$6,000
- 2000-2002 Office of the Vice President for Research, University of Michigan: Hydrogeochemical Controls on Calcareous Peatland Communities: links

- among phosphorus cycling, calcium carbonate precipitation, and plant species abundance and diversity, \$30,000 (with L. Walters)
- 1999-2002 NSF: Competitive ability of clonal plants: the roles of clonal integration and ramet aggregation in structuring plant communities. \$270,000 (PI, with co-PI, L. Gough)
- 1998 LS&A, University of Michigan: Community consequences of competition in a clonal plant community. \$5,856
- 1997-1998 NSF: REU Supplement: The community-level consequences of species interactions. \$6,000
- 1997-1999 NSF: Mechanisms of species compositional change due to gap creation in a tall grass prairie. Dissertation improvement grant for Katie Nash Suding. \$5,716
- 1996-1999 NSF: The community-level consequences of species interactions: null community experiments with annual plants (PI, with R. Turkington, J. Gurevitch) (\$290,000)
- 1995-1996 Career Advancement Award, University of Michigan (\$5,000)
- 1994-1996 Keren Kayemet L'Yisroal: "Restoration ecology of sand dune vegetation". (\$20,000)
- 1994-1995 Office of the Vice President for Research and LS&A, UM: "Community-level consequences of competition: experiments with annual plants". (\$9,157)
- 1992-1994 BiNational Science Foundation (US-Israel): "Community level consequences of competition along productivity gradients: experiments with annual plant communities". (\$73,000)
- 1991-1992 Office of the Vice President for Research, UM: "Effects of mean vs. variance in water supply on plants from a desert grassland soil moisture gradient". (\$17,170)
- 1990-1993 National Science Foundation: "Mechanisms and consequences of resource competition in a desert grassland". (PI, \$190,000).
- 1988-1990 Rackham Faculty Research Grant: "Competitive ability in plants." (\$9,443).

- 1988-1990 National Science Foundation: "Nitrogen dynamics in a legume-nonlegume intercrop system." Dissertation Improvement grant for Margaret Reeves. (\$9,666).
- 1988 National Science Foundation: "REU: Process-level interactions in terrestrial ecosystems: an experimental approach." (\$8,000).
- 1986-1989 National Science Foundation: "Process-level interactions in terrestrial ecosystems: an experimental approach." with 7 other investigators. (DEG project \$62,892).
- 1984 Rackham Faculty Research Grant: Neighborhood competition in plants: greenhouse and field experiments." (\$5,521).
- 1977 Graduate Student Development Award, University of Arizona
- 1976, 1978 Sigma Xi Grants-in-Aid of Research

EDITORIAL BOARDS

- 2002-2012 Board of Editors, Perspectives in Plant Ecology, Evolution, and Systematics
- 2007-2008 Board of Editors, Israel Journal of Ecology and Evolution
- 1997-2001 Associate Editor, Journal of Vegetation Science
- 1996-2003 Board of Editors, Conservation Ecology
- 1993-1996 Board of Editors, The American Naturalist
- 1989-1996 Board of Editors, Journal of Vegetation Science
- 1988-1991 Board of Editors, Ecology and Ecological Monographs
- 1986-1988 Associate Editor, American Midland Naturalist

OTHER PROFESSIONAL SERVICE

- 2014 NSF, Committee of Visitors, Emerging Frontiers, Biological Sciences Directorate
- 2014 External Review Committee, Department of Ecology, Evolution, and Organismal Biology, Ohio State University
- 2013 Chair, External Review Committee, EEB Graduate Program, Dartmouth College
- 2013 External Review Committee, Department of Biology, University of Virginia
- 2012 External Review Committee, School of Biological Sciences, University of Nebraska-Lincoln.
- 2011-2013 Vice President for Science, Ecological Society of America
- 2011-2014 Member, Electorate Nominating Committee, Section on Biological Sciences, AAAS
- 2010-2014 Member, Awards Committee, International Association of Vegetation Science

- 2009-2014 Elected Member and Secretary (2011-13), Board of Directors, National Ecological Observatory Network
- 2009-2011 Chair, Ecological Society of America Awards Committee
- 2010 External Review Committee, Department of Ecology and Evolutionary Biology, University of Arizona
- 2010 External Review Committee for Graduate Program, Department of Biology, Case Western Reserve University
- 2009 External Review Committee, Department of Ecology and Evolutionary Biology, University of Tennessee
- 2009 External Review Committee, Department of Biology, Wesleyan University
- 2007-2015 Member, Council of the International Association of Vegetation Science
- 2006-2009 Chair, Ecological Society of America, MacArthur Award Subcommittee
- 2006 Member, Executive Committee, GLACEO (Great Lakes and Central area Ecological Observatory Consortium)
- 2005 Co-chair, Invasive species subcommittee, NEON Design Consortium
- 2005-2006 Member, Ecological Society of America, MacArthur Award Committee
- 2003 NSF, Ecology Panel
- 2002-2003 Member, Ecological Society of America, Grants and Fellowship Committee
- 2000-2002 Chair-Elect and Chair, Vegetation Section, Ecol. Society of America
- 2001-2002 Member, Ecological Society of America Awards Subcommittee for Eminent Ecologist Award and Distinguished Service Award (Chair 2002)
- 2001-2004 Member, Nominating Committee, American Society of Naturalists (Chair 2004)
- 2001 NSF Site Review Committee, Kellogg Biological Station LTER
- 1999, 2000, 2002 NSF, Integrated Research Challenges in Environmental Biology Panel
- 1999 Member, American Society of Naturalists Committee for the E.O. Wilson Naturalist Award
- 1998-2003 Member, 1998-2002 Ecological Society of America Awards Subcommittee for Eminent Ecologist Award and Distinguished Service Award (Chair 2001, 2002)
- 1998 NSF, Dissertation Improvement Panel
- 1997-1999 Member, Research Committee, Ecological Society of America
- 1997 NSF Site Review Committee, Cedar Creek LTER
- 1997-1998 Expert Committee to select Chair of Plant Ecology at the University of Uppsala, Sweden
- 1997 Program Committee, 40th Annual Symposium of the International Association of Vegetation Science, Ceske Budejovice, Czech Republic
- 1997-2002 Member, Council of the International Society for Vegetation Science
- 1996 Expert consultant to evaluate candidates for lecturer faculty position at Lund University, Sweden
- 1996 NSF, Panel for CAREER program

1990	Ecological Society of America Council
1990	NSF, Ecology Panel
1988-1991	Committee on Status of Women and Minorities, Ecological Society of America
1989-1991	Cooper Award Committee, Ecological Society of America
1989,1996,	
2001, 2002	Judge, Buell Award, Ecological Society of America
1988	Judge, Student Paper Award, Botanical Society of America
1987	Member, Review Panel for Plant Toxicology and Ecology Program, Corvallis Environmental Research Laboratory, EPA
1987	Student Poster Award Committee, Ecological Society of America
1985-1986	Mercer Award Committee, Ecological Society of America

Reviewer for journals: Ecology, Journal of Ecology, American Naturalist, Science, Bulletin of the Torrey Botanical Club, Canadian Journal of Botany, Evolution, American Journal of Botany, Canadian Journal of Forestry Research, Michigan Botanist, Tropical Biology, Vegetatio, Journal of Vegetation Science, Botanical Gazette, Australian Journal of Ecology, Ecoscience, Oecologia Plantarum, Wetlands, Oikos

Reviewer for granting agencies: National Science Foundation, U.S.D.A. Competitive Grants Program, Natural Sciences and Engineering Research Council of Canada, Bi-national Science Foundation (Israel-US), Israel Ecology Fund, Swiss National Science Foundation

Reviewer for promotions and tenure: Yale University; University of North Carolina; University of California, Davis; Duke University; University of California, Berkeley; Emory University; University of Alberta; Louisiana State University; Oregon State University; University of Minnesota; Indiana University; University of Mississippi; University of Kansas; Ohio State University; Florida State University; Utah State University, Hebrew University, Israel; University of Tuebingen, Germany; Uppsala University, Sweden; University of Bern, Switzerland; University of Washington

SERVICE AT THE UNIVERSITY OF MICHIGAN

2014-2017	Co-Chair, Faculty and Staff Campaign, University of Michigan Capital Campaign
2013-2014	Convener, launch committees for new faculty members (one in School of Public Health, one in Astronomy)
2013-2014	Presidential Postdoctoral Fellow Program Advisory Board
2013-present	Chair, Distinguished Faculty and Dow Postdoctoral Fellows in Sustainability, Graham Sustainability Institute
2012-present	Faculty Co-Director, M-STEM Academies
2011-present	Advisory Board, Comprehensive Studies Program
2010-present	STRIDE (Strategies to recruit for diversity and excellence) Committee, ADVANCE Initiative

2010-present Executive Committee, Graham Environmental Sustainability Institute
 2005-present Executive Committee, UM Biological Station
 2011-2013 Member, Advisory Committee, Interdisciplinary Program in Infectious Disease Training Grant
 2010-2012 Faculty Director, Michigan Biology Scholars Academy
 2011 Presenter for Provost's Campus Leadership Program
 2009-2010 Education Planning Committee, North Campus Research Center
 2008-2011 Executive Committee, Life Sciences Institute
 2001-2011 Advisory Board, Program in the Environment
 2008-2009 Accreditation Working Group on "The Student Learning Environment"
 2008-2009 University Textbook Task Force
 2006-2007 (sabbatical)
 2006, 2008, 2010, 2012 Presenter, Michigan-China University Leadership Forum
 2006 Chair, Graham Environmental Sustainability Institute Director Search Advisory Committee
 2005-2006 Member, Steering Committee for LSA Theme Semester on Explore Evolution
 2004-2005 Biological Science Scholars Program Committee
 2004-2006 Advisory Board, Matthaei Botanical Gardens and Arboretum
 2003 Planning Committee for the 2003 Provost's Seminar on Teaching
 2003 Provost's Committee to evaluate the merger of Matthaei Botanical Gardens and the Nichols Arboretum
 2003-2004 Evaluation Committee, Elizabeth Crosby Grants
 2002-2006 President's Advisory Board on Women's Issues
 2002 Chair, Rackham Divisional Board
 2002 Search Committee, Associate Vice President for Research
 2002 Search Committee, Director of UM Biological Station
 2001-2011 Advisory Board, Program in the Environment
 2001-2003 Rackham Divisional Board
 2001 Search Committee, Art Coordinator, Lloyd Hall Scholars Program
 2000-2001 (Sabbatical)
 1995-2004 Lloyd Hall Scholars Advisory Community
 1999 Faculty Outreach Project, LSA
 1996 Search Committee, Associate Director of Pilot Program
 1992-1994 On leave while faculty member at Ben Gurion University
 1992 Search Committee, Director of Pilot Program
 1991-1992 LSA College Curriculum Committee
 1991-1992 Rackham Graduate School Divisional Board for Biological and Health Sciences
 1990-1991 (Sabbatical)
 1989-1990 Pilot Program and Community College Steering Committee
 1987 University Seminars

DEPARTMENT SERVICE

2013-2014	Departmental representative, Planning Committee for new Biological Sciences Building
2013-2014	Frontiers Masters admissions committee
2003-2013	Department Chair
2002-2003	Chair, Diversity Committee
2002-2003	Associate Chair, Research and Facilities
2001-2002	Interim Department Chair
2000	EEOB Graduate Evaluation Committee
1999-2000	sabbatical
1997-1999	Leader, EEOB Group
1995-1999	Executive Committee
1996-1997	Steering committee for GSI training
1996	Caucus for Search Committee for Epidemiology/Biology/Intl Inst.
1995-1997	Chair, Plant Biology Policy Committee
1995	EEOB Retreat Coordinator
1994-1995	Graduate Affairs Committee
1991,1994	EEOB Graduate Evaluation Committee
1992-1994	on leave while faculty member at Ben Gurion University, Israel
1991-1992	Steering Committee, Matthaei Botanical Gardens
1991-1992	Seminar Committee
1990-1991	sabbatical
1989-1990	Leader, Botany Group
1989-1990	Masters Committee
1987-1989	Graduate Affairs Committee (Co-Chair 1988-9)
1987-1988	Coordinator, Ecology Retreat
1986	Search Committee for Director, Matthaei Botanical Gardens
1984-1986	Graduate Admissions Committee
1985	Ecology Search Committee

COURSES TAUGHT AT THE UNIVERSITY OF MICHIGAN

Population and Community Ecology (EEB 485)
 Capstone course for EEB concentrators (EEB 410, with N. Rosenberg)
 Special Topics in Advanced Ecology (Biology 401, with J. Vandermeer, K. Nadelhoffer)
 Topics at the Interface of Ecology and Evolution (Biology 401, with W. Fink)
 Introduction to Ecology: Principles and Applications (Biology 103)
 Biology for Nonscientists (Biology 100, with M. Osgood)
 General Ecology (Biology 381, with B. Rathcke)
 Plant Population and Community Ecology (Biology 495)
 Population Dynamics and Ecology (Biology 481, with J. Vandermeer)
 Community Ecology (EEB 497, with Earl Werner)

POSTDOCTORAL FELLOWS

Ariel Novoplansky (1991-1993), currently Associate Professor, Ben Gurion University, Israel

Andy Dyer (1996-1999), currently Associate Professor, University of South Carolina, Aiken

Anna Sher (1998-2000), Fulbright Fellow, Blaustein Institute for Desert Research, Ben Gurion University, Israel, currently Associate Professor, University of Denver

Duane Peltzer (2000-2001), NSERC Fellow, University of Michigan, currently Research Scientist, Landcare Research, Lincoln, New Zealand

Chad Hershock (2002-2003), currently Coordinator of STEM Initiatives, Center for Research on Learning and Teaching, UM

Vigdis Vandvik (2003-4), currently Professor, University of Bergen, Norway

Miro Kummel (2004- 2006), currently Assistant Professor, Colorado College

Radka Wildova (2004-2008), currently Vice President, Ecological Research Institute

Emily Farrer (2010), currently postdoc, University of California, Berkeley

Kenneth Elgersma (2010-2013), currently Assistant Professor, University of Northern Iowa

Ai Wen (2010-2013), currently Lecturer, University of Northern Iowa

Jason Martina (2012-present)

Ph.D. STUDENTS

Betsy Kirkpatrick (Ph.D. 1990), currently Professor, U. of Puget Sound

Drew Barton (Ph.D. 1991), currently Professor, U. Maine, Farmington

Dan Friedus (Ph.D. 1994), currently Undergraduate Advising Office, U. of Michigan

John Kasmer (Ph.D. 1996), currently Professor, Eastern Illinois University

Timothy Howard (Ph.D. 1998), currently Staff Scientist, New York State Department of Environmental Conservation

Katherine Nash Suding (Ph.D. 1999), currently Associate Professor, University of California, Berkeley

Chris Baraloto (Ph.D. 2001), Researcher and Team Leader, Center for the Study of Biodiversity in Amazonia, INRA- Kourou, French Guyane

Tara Rajaniemi (Ph.D. 2001), currently Associate Professor, University of Massachusetts, Dartmouth

Vicki Allison (Ph.D. 2001), currently Researcher, Ministry of Agriculture, New Zealand

Chad Hershock (Ph.D. 2002), currently Associate Director and Coordinator of Faculty Programs, Eberly Center for Teaching Excellence and Educational Innovation, Carnegie Mellon University

Gary Paoli (Ph.D.2003), currently co-founder and Director of Business and Research Development at Daemeter Consulting, Indonesia

Miro Kummel (Ph.D. 2004), currently Associate Professor, Colorado College

Emily Farrer (Ph.D. 2009), currently postdoc, UC Berkeley

John Guittar (Ph.D. expected 2015)

Current member of 5 other dissertation committees at the University of Michigan

MASTERS STUDENTS

Hagit Volin (MS 1998), currently Environmental Educator, Beer Sheva, Israel
Serge Farinas (MS 2011, Frontiers Program)

INTERNATIONAL INTERNS SPONSORED

Iva Spackova, University of South Bohemia, Czech Republic (1997-8)
Martina Petru, University of South Bohemia, Czech Republic (2001)
Radka Wildova, Charles University and Czech Academy of Sciences, Czech Republic
(2001, 2002, 2003)
Zuzana Munzbergova, Charles University and Czech Academy of Sciences, Czech
Republic (2004)

INVITED SEMINARS (since 2000)

2000 University of Massachusetts, Amherst
University of California, Davis
University of Illinois, Chicago
2001 University of Colorado, Boulder
2003 University of Pittsburgh
Michigan State University
University of Miami
2006 Charles University, Prague, Czech Republic
2007 University of Kentucky, Lexington, KY
2008 University of Georgia, Athens, GA (student invited speaker)
2009 Dartmouth College
Eastern Michigan University
2010 Michigan State University (student invited speaker)
Rutgers University
2012 University of Arizona
Archbold Biological Station

INVITED SYMPOSIA AND WORKSHOPS

Goldberg, D.E. 1984. Neighborhood competition in old-field communities. Ecological Society of America, Fort Collins, CO. Bull. Ecol. Soc. Amer. 65:202.
Goldberg, D.E. 1984. Neighborhood effects and the importance of competition in plant communities. Midwest Conference on Population Biology, Purdue University.
Goldberg, D.E. 1985. Components of individual plant success. International Association of Vegetation Science, Uppsala, Sweden. Studies in Plant Ecology 16:41-42.
Goldberg, D.E. 1987. Competitive effect and response in plants. Perspectives in Plant Competition, Cedar Creek, Minnesota.
Goldberg, D.E. 1988. The effect and response components of resource competition in plant communities. Botanical Society of America, Davis, California. Amer. J. Bot. 75(part 2):65.
Goldberg, D.E. and A.M. Barton. 1989. Field experiments in plant community ecology: matching questions and experimental designs. Ecological Society of America, Toronto, Ontario. Bull. Ecol. Soc. Amer. 70:124-125.

- Goldberg, D.E., R. Turkington, L. Olsvig-Whittaker. 1993. Community-level consequences of competition. Workshop on Competition and Coexistence in Temperate Grassland Communities. Bedrichov, Czech Republic.
- Goldberg, D. E. 1995. Mechanisms and consequences of competition in plant communities. Invited plenary talk at 2nd International Conference on Forest Vegetation Management. Rotorua, New Zealand.
- Goldberg, D.E. 1996. Competitive ability: definitions, correlations, and correlated traits. Plant Life History Discussion Meeting, Royal Society, London, UK.
- Goldberg, D.E. 1997. Competition and facilitation: from individuals to communities (invited series of lectures for University of Stockholm short course on "Integrating plant population and landscape processes").
- Goldberg, D.E. 1997. Consequences of competitive interactions in plants: scaling from individuals to communities. Invited plenary talk at 40th Annual Symposium of the International Association of Vegetation Science, Ceske Budejovice, Czech Republic.
- Goldberg, D.E. 1998. Discussion leader: Population and community consequences of phenotypic plasticity in plants. Workshop on The Consequences of Noncognitive Behavior in Plants. Sde Boqer, Israel
- Goldberg, D.E. 1999. Species interactions and patterns of biodiversity in deserts. Invited lecture at workshop: Biodiversity in Drylands: Towards a unified framework and identification of research needs. Ben Gurion University, Beer Sheva, Israel.
- Goldberg, D.E. 2001. Competition along productivity gradients in plants. Invited plenary talk at 44th Annual Symposium of the International Association of Vegetation Science, Freising, Germany
- Goldberg, D.E. 2002. Species interactions in grasslands: mechanisms and consequences. Invited lecture at Colloquium on Perspectives in Grassland Science, Institute of Plant Sciences, Zurich, Switzerland.
- Werner, E.E. and D.E. Goldberg. 2003. The legacy of Hutchinson to community ecology. Invited lecture, G. Evelyn Hutchinson Memorial Symposium, Yale University.
- Goldberg, D.E. 2004. Plant traits and competitive ability. Invited lecture at workshop: How can we forecast the impact of environmental change on biotic diversity and ecosystem function? Borchard Foundation, Missillac, France.
- Goldberg, D.E. 2005. Introduction to symposium: Integrating the dispersal-assembly and the niche-assembly paradigms in plant community ecology. Invited symposium organizer at the XVII International Botanical Congress, Vienna, Austria.
- Vandvik, V. and D.E. Goldberg. 2005. Quantifying the role of dispersal, ecological drift and species sorting in determining the diversity of local communities. Invited symposium presentation, XVII International Botanical Congress, Vienna, Austria.
- Rajaniemi, T., D.E. Goldberg, and R. Turkington. 2005. Quantitative partitioning of regional and local processes shaping productivity-diversity relationships. Invited symposium presentation, XVII International Botanical Congress, Vienna, Austria.

- Goldberg, D.E, W.C. Currie, R. Wildova, and E.C. Farrer. 2009. Mechanisms of plant invasion: from basic biology to useful management tools? Invited symposium presentation, Odum Conference 2009, Understanding and managing biological invasions as dynamic processes: Integrating information across space and time, Rensselaerville, NY. <http://nyisri.org/Odum.aspx>
- Foxman, B. and D.E. Goldberg. 2009. Rethinking the etiology of infectious disease in terms of microbial community ecology. Invited symposium presentation, The Rainforest Within: Biodiversity of the Human Body and its Relationship to Health and Disease. Ecological Society of America, Albuquerque, NM.
- Wildova, R. and D. E. Goldberg. 2009. Comparison of invasive, native, and hybrid cattail tolerance to light and nutrients: implications for understanding cattail invasions. Invited symposium presentation, Genetics & Ecology of Cattail Invasions: Implications for wetland management. Society of Wetland Scientists, Madison, WI.
- Goldberg, D.E. 2012. Bridging from high school to college and college to the Ph.D.; Programs that work. Invited organized oral session on "Increasing representation of minorities in ecology: what works." Ecological Society of America, Portland, OR.
- Goldberg, D.E. 2012. Competitive abilities and niches in plant community assembly. Symposium in honor of Professor James H. Brown.
- Goldberg, D.E., K.J. Elgersma, W.S. Currie, J.P. Martina. 2012. Building an integrated program to understand wetland plant invasions. Plenary speaker, Society of Wetland Scientists North Central Chapter Meeting. Indiana Dunes National Lakeshore, IN.(Plenary)
- Goldberg, D.E. 2013. Mechanistic ecology rising. Symposium in honor of Professor Earl Werner, University of Michigan.
- Goldberg, D.E., and J. H. Vandermeer. 2013. The evolution of population ecology. Invited symposium presentation, Ecology's recent history: individuals, the continuum, the explosion of subdisciplines, and an homage to Robert McIntosh. Ecological Society of America, Minneapolis, MN.

CONTRIBUTED PAPERS AND PUBLISHED ABSTRACTS

- Goldberg, D.E. 1979. The distribution of evergreen and deciduous plant species: an experimental study. Guild of Rocky Mountain Population Biologists, Chiricahua Mountains, Arizona.
- Goldberg, D.E. 1980. Gradient analysis of the vegetation of the Sierra Madre Occidental, Sonora, Mexico with special reference to growth form. Southwestern and Rocky Mountain Division of AAAS and Arizona-Nevada Academy of Science, Las Vegas, Nevada. J. Ariz.-Nev. Acad. Sci. 15:18.
- Goldberg, D.E. 1980. Experimental investigations into the distribution of evergreen and deciduous tree species. Ecological Society of America, Tucson, Arizona. Bull. Ecol. Soc. Amer. 61:77.

- Schaffer, W.M. and D.E. Goldberg. 1980. Variation in life history and demography in *Agave*. Society for the Study of Evolution and American Society of Naturalists, Tucson, Arizona.
- Goldberg, D.E. and P.A. Werner. 1982. The effect of size of opening and litter on seedling establishment in goldenrods. Ecological Society of America, State College, Pennsylvania. Bull. Ecol. Soc. Amer. 63:104.
- Goldberg, D.E. 1982. A new approach to determination of competitive hierarchies in plant communities. Perspectives in Plant Population Ecology, Oaxtepec, Mexico.
- Goldberg, D.E. 1984. Response of *Solidago canadensis* to neighborhood competition. Ecological Society of America, Fort Collins, Colorado. Bull. Ecol. Soc. Amer. 65:115.
- Goldberg, D.E. and K.L. Gross. 1985. Dynamics of disturbances in three old-field communities. British Ecological Society, Southampton, U.K.
- Goldberg, D.E. and T.E. Miller. 1987. The effects of water and nitrogen on productivity and diversity in a first-year old field. Ecological Society of America, Ohio State University, Columbus, Ohio. Bull. Ecol. Soc. Amer. 68:311.
- Goldberg, D.E. and A. Novoplansky. 1993. Why might competition be unimportant in unproductive environments. Bull. Ecol. Soc. Amer. 74:252.
- Novoplansky, A. and D.E. Goldberg. 1993. Plasticity and resistance to competitive suppression. Bull. Ecol. Soc. Amer. 74:376.
- Taub, D.R. and D.E. Goldberg. 1994. Comparison of root architecture and early growth of winter annual plants from sites differing in soil resource availability. Bull. Ecol. Soc. Amer. 75:226.
- Goldberg, D.E., R. Turkington, L. Olsvig-Whittaker. 1997. Experimental studies of community-level consequences of competition in plants. Bull. Ecol. Soc. Amer. 78:95.
- Dyer, A., R. Turkington, D.E. Goldberg, C. Sayre. 1997. Biomass allocation and plasticity in plants from desert and mediterranean climates. Bull. Ecol. Soc. Amer. 78:242.
- Goldberg, D.E., R. Turkington, L. Olsvig-Whittaker. 1997. Experimental studies of community-level consequences of competition in plants. Bull. Ecol. Soc. Amer. 78:95.
- Dyer, A., R. Turkington, D.E. Goldberg, C. Sayre. 1997. Biomass allocation and plasticity in plants from desert and mediterranean climates. Bull. Ecol. Soc. Amer. 78:242.
- Howard, T. and D.E. Goldberg. 1997. Community changes in response to single species perturbations. Bull. Ecol. Soc. Amer. 78:259.
- Suding, K. Nash, and D.E. Goldberg. 1997. Mechanisms of species compositional change due to gap creation in a tallgrass prairie. Bull. Ecol. Soc. Amer. 78:318.
- Dyer, A., R. Turkington, D.E. Goldberg, C. Sayre. 1998. Trait plasticity and resource availability: a comparative analysis. Poster at Workshop on Phenotypic Plasticity in Plants: The Consequences of Noncognitive Behavior. Sde Boqer, Israel.
- Dyer, A., R. Turkington, D.E. Goldberg, C. Sayre. 1998. Defining functional groups using trait data from multiple treatments. Oral presentation, Ecological Society of America, Baltimore, USA.

- Hershock, C. and D.E. Goldberg. 1998. Plant species distributions in calcareous peatlands: effects of species interactions and soil environment. Poster presentation, Ecological Society of America, Baltimore, USA.
- Lessin, L.M., A.R. Dyer, and D.E. Goldberg. 1998. Competition as a boundary constraint in desert annuals. Poster presentation, Ecological Society of America, Baltimore, USA.
- Suding, K.N. and D.E. Goldberg. 1998. Do competitive hierarchies shift due to gap creation? Separating potential mechanisms of change. Oral presentation, Ecological Society of America, Baltimore, USA.
- Goldberg, D.E., R. Turkington, and A. Dyer. 1998. Relationships of plant traits to individual-level and community-level competitive ability. *Studies in Plant Ecology* 20: 88. International Association of Vegetation Science, Uppsala, Sweden.
- Dyer, A.R., D.E. Goldberg, and R. Turkington. 1999. The effect of community density and biomass gradients on individual species performance. Oral presentation, Ecological Society of America, Spokane, USA.
- Peltzer, D.A., A.R. Dyer and D.E. Goldberg. 1999. Density-dependent germination in annual plants from desert and coastal communities in Israel. Oral presentation, Ecological Society of America, Spokane, USA.
- Rajaniemi, T. and D.E. Goldberg. 1999. Effects of aboveground competition, belowground competition, and density on plant diversity. Poster presentation, Ecological Society of America, Spokane, USA.
- Sher, A., D.E. Goldberg, and A. Novoplansky. 2000. Poster presentation, Ecological Society of America-British Ecological Society, Florida, USA.
- Suding, K.N. and D.E. Goldberg. 2000. Fugitive species are not always competitively inferior: evidence for a shift in competitive hierarchy following soil disturbance in a grassland plant community. Oral presentation, Ecological Society of America, Snowbird, UT, USA.
- Hershock, C. and D.E. Goldberg. 2001. Community-level consequences of competition among clonal sedges. Oral presentation, Ecological Society of America, Madison, WI, USA.
- Pauliukonis, N., L. Gough, D.E. Goldberg. 2001. The role of clonal integration in the survival and growth of four wetland plant species. Oral presentation, Ecological Society of America, Madison, WI, USA.
- Baraloto, C., P-M Forget, and D.E. Goldberg. 2001. Relationships between neotropical tree seedling morphology and performance in contrasting environments. Poster presentation, Ecological Society of America, Madison, WI, USA.
- Hershock, C. and D.E. Goldberg. 2002. Relationships among clonal architecture, competitive ability, and plant species distributions in calcareous fens. Oral presentation, Ecological Society of America, Tucson, AZ, USA.
- Goldberg, D.E., A. Novoplansky, A. Sher. 2002. Competition in pulsed environments. Workshop, Pulsed Resources in Desert Environments, August 2002, Tucson, AZ, USA.

- Suding, K.N., D.E. Goldberg, T. Howard. 2003. Linking species traits to competitive ability and the structure of plant communities. Oral presentation, Ecological Society of America, Savannah, GA, USA.
- Goldberg, D.E. L. Gough, C. 2003. Traits determining competitive ability in plants. Oral presentation, 7th International Clonal Plant Workshop, University of Oulu, Finland.
- Münzbergová, Z., V. Vandvik, and D.E. Goldberg. 2004. Differential importance of niche availability and random processes for common and rare species as an explanation of species coexistence. Oral presentation, Ecological Society of America, Portland, OR.
- Vandvik, V. and D.E. Goldberg. 2004. Long-distance seed dispersal and seed banks contribute to within- and among-site diversity patterns in a grassland metacommunity. Oral presentation, Ecological Society of America, Portland, OR.
- Vandvik, V. and D.E. Goldberg. 2005. Local and regional controls of diversity in a grassland metacommunity. Oral presentation, Ecological Society of America, Montreal, Canada.
- Snow, A., Sweeney, P., Wildová, R. and Goldberg, D. 2005. Is invasive *Typha x glauca* always a sterile F₁ hybrid in the north-central USA? Botanical Society of America Annual meeting, Austin, Texas, USA.
- Farrer, E.C. and D.E. Goldberg. 2006. Litter drives plant community and ecosystem changes in *Typha x glauca* invasion. Oral presentation, Ecological Society of America, Memphis, TN.
- Wildová, R., D. Goldberg, A. Snow, P. Sweeney, and N. Tuchman. 2006. Comparison of patterns and processes between native and invasive cattails. Annual International meeting of wetland scientist and managers, Traverse City, Michigan, USA.
- Wildova, R., D. E. Goldberg, and T. Herben. 2007. The contrasting roles of growth and architectural traits for plant performance in monocultures and mixtures. Oral presentation, Ecological Society of America, San Jose, CA.
- Farrer, E.C. and D.E. Goldberg. 2008. Inferring plant-soil feedbacks from community dynamics. Poster presentation, Ecological Society of America, Milwaukee, WI.
- Wildova, R. and D.E. Goldberg. 2008. Oral presentation, Ecological Society of America, Milwaukee, WI.
- Rajaniemi, R., R. Turkington, and D.E. Goldberg. 2008. Effects of biotic and abiotic filters on species diversity and composition in desert annual communities. Poster presentation, Ecological Society of America, Milwaukee, WI.
- Farrer, E.C. and D.E. Goldberg. 2009. Mechanisms and reversibility of effects of invasive cattail on native wetlands. Abstract, Odum Conference, New York Invasive Species Research Institute, 2009.
- Farrer, E.C. and D.E. Goldberg. 2009. Plant-soil feedbacks in the field: A test in a perennial grassland. Oral presentation, Ecological Society of America Annual Meeting, Albuquerque, NM.
- Goldberg, DE, W.S. Currie, R. Wildova, and E.C. Farrer. 2009. Coexistence and dominance of introduced plants in marshes: the importance of clonal traits and plant size along nutrient gradients. 9th Clonal Plant Workshop, Clonal plants: beyond the patterns - ecological and evolutionary dynamics of asexual reproduction, Leuven, Belgium. <http://bio.kuleuven.be/pleco/9thSymposium/>
- Currie, W.S., and D.E. Goldberg. 2011. Interwoven cause and effect in nutrient cycling, plant size, and invasion success in a simulated clonal wetland ecosystem. 54th International Conference of the International Association for Vegetation Science, Lyons, France. <http://iavs2011.univ-lyon1.fr/en>

- Goldberg, D.E. and W.S. Currie. 2011. The role of clonal plant size and litter production in competitive dynamics along nutrient gradients 54th International Conference of the International Association for Vegetation Science, Lyons, France.
<http://iavs2011.univ-lyon1.fr/en>
- Elgersma, K.J. and D.E. Goldberg. 2012. Does translocation influence growth or invasiveness of clonal cattail (*Typha*) species? Poster session, Ecological Society of America, Portland, OR.
- Martina, J.P., W.S. Currie, D.E. Goldberg. 2012. The interaction between litter and N loading determines invader success and N retention in a simulated clonal wetland ecosystem. Oral presentation, American Geophysical Union Fall Meeting. San Francisco, CA.
- Martina, J.P., W.S. Currie, D.E. Goldberg. 2012. The interaction between litter, N loading, and allocation requirement determines invader success in a simulated clonal wetland ecosystem. Oral presentation, Society of Wetland Scientists North Central Chapter Meeting. Indiana Dunes National Lakeshore, IN.
- Currie, W.S., D.E. Goldberg, J.P. Martina. 2012. Exploring interwoven cause and effect in nutrient cycling, plant size, and invasion success in a wetland community-ecosystem model. Oral presentation, Society of Wetland Scientists North Central Chapter Meeting. Indiana Dunes National Lakeshore, IN.
- Elgersma, K.J., A. Wen, T. Herben, W.S. Currie, and D.E. Goldberg. 2013. Estimating dynamic allocation to clonal plant growth using static measurements. Poster presentation, Ecological Society of America, Minneapolis, MN.
- Martina, J.P., W.S. Currie, D.E. Goldberg, and K.J. Elgersma. 2013. Interactive effects of invasion and hydrology influence C storage along a nitrogen gradient in a simulated clonal wetland ecosystem. Oral presentation, Ecological Society of America, Minneapolis, MN.
- Michel, P., A. Berge, V. Vandvik, K. Klanderud, D.E. Goldberg, and J.L. Guittar. 2013. Interactive effects of climate and disturbance on seedling performance in grasslands of southern Norway. Poster presentation, International Association of Vegetation Science, Tartu, Estonia.
- Klanderud, K., D.E. Goldberg, R. Telford, and V. Vandvik. 2013. Alpine plant community responses to warmer and wetter climate. Results from a transplant experiment in southern Norway. ITEX Annual Meeting, Switzerland.

PUBLICATIONS

1. Goldberg, D.E. 1982. The distribution of evergreen and deciduous trees relative to soil type: an example from the Sierra Madre, Mexico and a general model. *Ecology* 63:942-951.
2. Goldberg, D.E. 1982. Comparison of factors determining growth rates of deciduous vs. broad-leaf evergreen trees. *American Midland Naturalist* 108:133-143.
3. Goldberg, D.E. and P.A. Werner. 1983. Equivalence of competitors in plant communities: a null hypothesis and an experimental approach. *American Journal of Botany* 70:1098-1104.

4. Goldberg, D.E. and P.A. Werner. 1983. The effect of opening size and litter cover on seedling establishment of goldenrods (*Solidago* spp.). *Oecologia* 60:149-155.
5. Goldberg, D.E. 1985. Effects of soil pH, competition, and seed predation on the distribution of two tree species. *Ecology* 66:503-511.
6. Goldberg, D.E. and R.M. Turner. 1986. Vegetation change and plant demography in permanent plots in the Sonoran Desert. *Ecology* 67:695-712.
7. Goldberg, D.E. 1986. Plant Community Ecology: papers in honors of Robert H. Whittaker (book review). *Ecology* 67:1697.
8. Goldberg, D.E. 1987. Neighborhood competition in an old-field plant community. *Ecology* 68:1211-1223.
9. Goldberg, D.E. 1987. Seedling colonization of experimental disturbances in two old-field communities. *Bulletin of the Torrey Botanical Club* 114:139-187.
10. Goldberg, D.E. and L. Fleetwood. 1987. Comparison of competitive effects and responses among annual plants. *Journal of Ecology* 75:1131-1144.
11. Goldberg, D.E. and K.L. Gross. 1988. Disturbance regimes of midsuccessional old-fields. *Ecology* 69:1677-1688.
12. Goldberg, D.E. 1988. Response of *Solidago canadensis* clones to competition. *Oecologia* 77:357-364.
13. Bradshaw, L. and D.E. Goldberg. 1989. Resource levels in undisturbed vegetation and mole mounds in old-fields. *American Midland Naturalist* 121:176-183.
14. Goldberg, D.E. and T.E. Miller. 1990. Resource additions and species diversity in an annual plant community. *Ecology* 71:213-225.
15. Goldberg, D.E. 1990. Components of resource competition in plant communities. Pages 27-49 in: J. Grace and D. Tilman (eds.). *Perspectives in Plant Competition*. Academic Press.
16. Goldberg, D.E. and K. Landa. 1991. Competitive effect and response: hierarchies and correlated traits in the early stages of competition. *Journal of Ecology* 79:1013-1030.
17. Goldberg, D. E. and A. M. Barton. 1992. Patterns and consequences of interspecific competition in natural communities: field experiments with plants. *American Naturalist* 139:771-801.
18. Goldberg, D. E. and S. Scheiner. 1993. ANOVA and ANCOVA: field competition experiments. Pages 69-93 in: S. Scheiner and J. Gurevitch (eds.). *Design and Analysis of Ecological Experiments*. Chapman & Hall.
19. Goldberg, D.E. and A. K. Sakai. 1993. Career options for dual career couples: results of an ESA survey on soft money research positions and shared positions. *Ecol. Soc. Amer. Bull.* 74:146-152.
20. Goldberg, D. E. 1994. On testing the importance of competition for community structure. *Ecology* 75:1503-1506.
21. Goldberg, D.E., R. Turkington, and L. Olsvig-Whittaker. 1995. Quantifying the community-level effects of competition. *Folia Geobotanica and Phytotaxonomica* 30:231-242.

22. Goldberg, D.E. 1995. Generating and testing predictions about community structure: which theory is relevant and can it be tested with observational data. *Folia Geobotanica and Phytotaxonomica* 30:511-518.
23. Taub, D.R and D.E. Goldberg. 1996. Root topology in response in soil resource availability: phenotypic plasticity and species differences. *Functional Ecology* 10:258-264.
24. Goldberg, D.E. 1996. Competitive ability in plants: consistency, contingency, and correlated traits. *Phil. Trans. Roy. Soc. Lond. B* 351:1377-1385.
25. Goldberg, D.E. 1996. Simplifying the study of competition at the individual plant level: the consequences of distinguishing between effect and response for forest vegetation management. *New Zealand Journal of Forestry Science* 26:19-38.
26. Goldberg, D.E. 1997. Competitive ability in plants: consistency, contingency, and correlated traits. In: J. Silvertown and M. Franco (eds.). *Evolution of Plant Life Histories*. Cambridge University Press. (expanded version of 1996 paper)
27. Goldberg, D.E. and A. Novoplansky. 1997. On the relative importance of competition in unproductive environments. *Journal of Ecology* 85:409-418.
28. Goldberg, D.E. and G. Estabrook. 1998. A method for comparing diversity and species abundances among samples of different sizes and an experimental example with desert annuals. *Journal of Ecology* 86:983-988.
29. 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.
30. Suding, K, N. and D.E. Goldberg. 1999. Variation in the effects of vegetation and litter on recruitment across productivity gradients. *Journal of Ecology* 87:436-449.
31. Osenberg, C.W., O. Sarnelle, and D.E. Goldberg. 1999. Meta-analysis in ecology: concepts, statistics, and applications. *Ecology* 80:1103-1104. (introduction to special feature)
32. Leps, J. D.E. Goldberg, T. Herben, M. Palmer, and M. Rejmanek. 1999. Mechanistic explanations of community structure. *Journal of Vegetation Science* 10:147-150. (introduction to special feature)
33. Zamfir, M. and D.E. Goldberg. 2000. The effect of initial density on interactions between bryophytes at individual and community levels. *Journal of Ecology* 88:243-255.
34. Rajaniemi, T.K. and D.E. Goldberg. 2000. Quantifying individual- and community-level effects of competition using experimentally-determined null species pools. *Journal of Vegetation Science* 11:433-442.

35. Dyer, A. R., R. Turkington, D. E. Goldberg, & C. Sayre. 2001. Effects of growing conditions and source habitat on plant traits and functional group definition. *Functional Ecology* 15:85-95.
36. Lessin, L.A., A.R. Dyer, and D.E. Goldberg. 2001. Using upper boundary constraints to quantify competitive response of desert annuals. *Oikos* 92:153-159.
37. Howard, T.G. and D.E. Goldberg. 2001. Competitive response hierarchies for germination, growth, and survival and their influence on abundance. *Ecology* 82: 979-990.
38. Goldberg, D. E. and S. Scheiner. 2001. ANOVA and ANCOVA: field competition experiments. Pages 69-93 in: S. Scheiner and J. Gurevitch (eds.). *Design and Analysis of Ecological Experiments*. 2nd Edition. Chapman & Hall. (revision of 1993 chapter)
39. Novoplansky, A. and D.E. Goldberg. 2001. Effects of water pulsing on individual performance and competition hierarchies in plants. *Journal of Vegetation Science* 12:199-208.
40. Novoplansky, A. and D.E. Goldberg. 2001. Comparison of neighbor interactions during a period of abundant water and a subsequent drought. *Journal of Arid Environments* 47:11-32.
41. Suding, K.N. and D.E. Goldberg. 2001. Do disturbances alter competitive hierarchies? Separating mechanisms of species compositional change. *Ecology* 82:2133-2149.
42. Goldberg, D.E., R. Turkington, L. Olsvig-Whittaker, and A.R. Dyer. 2001. Density dependence in an annual plant community: variation among life history stages. *Ecological Monographs* 71:423-446.
43. Gough, L., D.E. Goldberg, C. Hershock, N. Pauliukonis, M. Petru. 2002. Investigating the community consequences of competition among clonal plants. *Evolutionary Ecology* 15: 547-563.
44. Allison, V. and D.E. Goldberg. 2002. Species-level vs. community-level patterns of mycorrhizal dependence on phosphorus: an example of Simpson's paradox. *Functional Ecology* 16:346-352.
45. Suding, K.N., D.E. Goldberg, and K.M. Hartman. 2003. Relationships among species traits: separating levels of response and identifying linkages to abundance. *Ecology* 84:1-16.
46. Rajaniemi, T.K., V.J. Allison, and D.E. Goldberg. 2003. Root competition can cause a decline in diversity with increased productivity. *Journal of Ecology* 91:407-416.
47. Sher, A.A., D.E. Goldberg, and A. Novoplansky. 2004. The effect of mean and variance in resource supply on survival of annuals from Mediterranean and desert environments. *Oecologia* 141: 353-362.
48. Baraloto, C. and D.E. Goldberg. 2004. Microhabitat associations and seedling bank dynamics in a neotropical forest. *Oecologia* 141:701-712.
49. Shilo-Volin, H., A. Novoplansky, D.E. Goldberg, and R. Turkington. 2005. Density regulation in annual plant communities under variable resource levels. *Oikos* 108:241-252.

50. Turkington, R., D.E. Goldberg, L. Olsvig-Whittaker, and A.R. Dyer. 2005. Effects of density on timing of emergence and its consequences for survival and growth in two annual communities. *Journal of Arid Environments*. 61:377-396.
51. Vandvik, V. and D.E. Goldberg. 2005. Distinguishing the roles of dispersal in diversity maintenance and in diversity limitation. *Folia Geobotanica* 40:45-52.
52. Ayal, Y., G.A. Polis, Y. Lubin, and D.E. Goldberg. 2005. How can high animal biodiversity be supported in low- productivity deserts? The role of macro-detrivory and habitat physiognomy. Pages 15-29 in: J. Gosz and M. Shachak, eds. "Biodiversity in drylands: towards a unified framework and identification of research needs". Oxford University Press.
53. Polis, G.A., Y. Ayal, A. Bachi, L. S. Dall, D. Goldberg, R. Holt, S. Kark, B. Kotler, Y. Lubin, W. Mitchell. 2005. Interspecific interactions and species diversity in drylands. Pages 122-149 in: J. Gosz and M. Shachak, eds. "Biodiversity in drylands: towards a unified framework and identification of research needs". Oxford University Press.
54. Baraloto, C., Goldberg, D.E. & Bonal, D. 2005. Performance tradeoffs among neotropical tree seedlings in contrasting microhabitats. *Ecology* 86:2461-2472.
55. Baraloto, C., Goldberg, D.E. & Forget, P.-M. 2005. Seed mass, seedling size and neotropical tree seedling establishment. *Journal of Ecology* 93:1156-1166.
56. Poor, A., D. E. Goldberg, C. Hershock, K. Rosella. 2006. Do physiological integration and soil heterogeneity influence the clonal growth and foraging of *Schoenoplectus americanus*? *Plant Ecology* 181:45-56.
57. Rajaniemi, T.K., D.E. Goldberg, R Turkington, and A.R. Dyer. 2006. Quantitative partitioning of regional and local processes shaping regional diversity patterns. *Ecology Letters* 9:121-128.
58. Vandvik, V.V. and D.E. Goldberg. 2006. Sources of diversity in a grassland metacommunity: quantifying the contribution of dispersal to species richness. *American Naturalist* 168:157-167.
59. Baraloto, C., Bonal, D. & Goldberg, D.E. 2006. Differential seedling growth: response to soil resources among nine tropical trees. *Journal of Tropical Ecology* 22:487-497.
60. Allison, V.J., T.K. Rajaniemi, D.E. Goldberg and D.R. Zak. 2007. Quantifying direct and indirect effects of fungicide on an old-field plant community: an experimental null-community approach. *Plant Ecology*.
61. Wildova, R., L. Gough, T. Herben, C. Hershock, and D.E. Goldberg. 2007. Architectural and growth traits differ in effects on performance of clonal plants: an analysis using a field-parameterized simulation model. *Oikos* 116:836-852.
62. Suding, K.N., S. Lavorel, F.S. Chapin III, J.H.C. Cornelissen, S. Diaz, E. Garnier, D.E. Goldberg, D.U. Hooper, S.T. Jackson, and M.-L. Navas. 2008. Scaling environmental change from traits to communities to ecosystems: The challenge of complexity at intermediate scales. *Global Change Biology* 14:1125-1140.
63. Goldberg, D.E., R.W. Wildova, T. Herben. 2008. Consistency vs. contingency of trait-performance linkages across taxa. *Evolutionary Ecology* 22:477-481.

64. Foxman, B., D.E. Goldberg, C. Murdock, C. Xi, and J. Gilsdorf. 2008. Conceptualizing the human microbiome: from multi-celled organ to dynamic ecological community. *Interdisciplinary Perspectives on Infectious Diseases*. vol. 2008, Article ID 613979, 5 pages, 2008. doi:10.1155/2008/613979
65. Farrer, E. and D.E. Goldberg. 2009. Litter drives ecosystem and plant community changes in cattail invasion. *Ecological Applications* 19:398-412. *selected for Faculty of 1000 Biology*
66. Rajaniemi, T.K., R. Turkington, D.E. Goldberg. 2009. Community-level consequences of species interactions in an annual plant community. *Journal of Vegetation Science* 20: 836–846.
67. Sullivan, L. R. Wildova, D.E. Goldberg, and C. Vogel. 2009. Growth of three cattail (*Typha*) taxa in response to elevated CO₂. *Plant Ecology*. [DOI 10.1007/s11258-009-9658-4](https://doi.org/10.1007/s11258-009-9658-4).
68. Tuchman, N.C., P. Geddes, D. Larkin, R. Wildova, K.J. Jankowski, and D.E. Goldberg. 2009. Patterns of environmental change associated with *Typha x glauca* invasion in a Great Lakes coastal wetland. *Wetlands* 29:964-975.
69. Farrer, E.C., D.E. Goldberg, and A.A. King. 2010. Time lags and the balance of positive and negative interactions in driving grassland community dynamics. *American Naturalist* 175:160-173.
70. Foxman, B. and D.E. Goldberg. 2010. Why the human microbiome project should motivate epidemiologists to learn ecology. *Epidemiology* 21:757-758.
71. Snow, A.A., S.E. Travis, R. Wildova, T. Fér, P.M. Sweeney, J.E. Marburger, S. Windels, B. Kubátová, and D.E. Goldberg. 2010. Species-specific SSR markers for studies of hybrid cattails (*Typha latifolia x T. angustifolia*, Typhaceae) in North America. *American Journal of Botany* 97:2061-2067.
72. Farrer, E.C. and D.E. Goldberg. 2011. Patterns and mechanisms of conspecific and heterospecific interactions in a dry perennial grassland. *Journal of Ecology* 99:265-276.
73. Rosenthal, M., D.E. Deborah Goldberg, A. Aiello, E. Larson, and B. Foxman. 2011. Skin microbiota: Microbial community structure and its potential association with health and disease. *Infection, Genetics and Evolution* 11(5):839-48.
74. Yu, F-H, T. H. Herben, R. Wildová, C. Hershock, and D.E. Goldberg. 2012. Can we predict performance and spatial structure of two-species mixtures using only single species information from monocultures? *Ecological Modeling* 234: 31-37 [doi:10.1016/j.ecolmodel.2011.05.036](https://doi.org/10.1016/j.ecolmodel.2011.05.036)
75. Betsy Foxman, B., Wu, J., Farrer, E., Goldberg, D.E., Younger, J., Xi, W. 2012. Early development of bacterial community diversity in emergently placed urinary catheters. *BMC Research Notes* 5:332. [doi:10.1186/1756-0500-5-332](https://doi.org/10.1186/1756-0500-5-332)
76. Wen, A., D.E. Goldberg, C.F. Marrs, R. Weyant, M. Marazita, U. Srinivasan, L. Zhang, R. Crout, D.W. McNeil, B. Foxman. 2012. Caries resistance as a function of age in an initially caries-free population. *J. Dental Research* 91:671-675 [DOI: 10.1177/0022034512450174](https://doi.org/10.1177/0022034512450174)
77. Wildova, R., D.E. Goldberg, T.H. Herben. 2012. The contrasting roles of growth traits and architectural traits in determining coexistence and competitive

- exclusion in clonal plants. *American Naturalist* 180: 693-706 [DOI: 10.1086/668013.](#)
78. Rajaniemi, T.R., D.E. Goldberg, R. Turkington, A.R. Dyer. 2012. Local filters limit species diversity, but species pools determine composition. *Perspectives on Plant Ecology, Evolution, and Systematics* 14:373-380. [DOI:10.1016/j.ppees.2012.09.004](#)
 79. Foxman, B. U. Srinivasan, A. Wen, L. Zhang, C.F. Marrs, D.E. Goldberg, R. Weyant, D. McNeil, R. Crout, M. Marazita. 2013. Exploring the effect of dentition, dental decay and familiarity on oral health using metabolomics. *Infection, Genetics and Evolution*.
 80. Foxman, B., Ai Wen, U. Srinivasan, D.E. Goldberg, C.F. Marrs, J. Owen, D. A. Wing, and D. Misra. 2013. *Mycoplasma*, bacterial vaginosis associated bacteria BVAB3, race, and risk of preterm birth in a high risk cohort. *American Journal of Obstetrics and Gynecology*. [doi.org/10.1016/j.ajog.2013.10.003](#)
 81. Wen, A. U. Srinivasan, D.E. Goldberg, J. Owens, S. Ponnaluri, A. Miles, B. Bucholz, K. Abbas, C. Marrs, D. Misra, D. Wing, B. Foxman. 2013. Selected vaginal bacteria and risk of pre-term birth: an ecological perspective. *Journal of Infectious Diseases* [doi: 10.1093/infdis/jit632.](#)
 82. Herben, T. and D.E. Goldberg. 2014. Community assembly by limiting similarity vs. competitive hierarchies: testing the consequences of dispersion of individual traits. *Journal of Ecology* 102: 156-166. [doi: 10.1111/1365-2745.12181](#)
 83. Currie, W.S., D.E. Goldberg, J. Martina, R. Wildova, E. Farrer, and K. J. Elgersma. *In press*. Emergence of nutrient-cycling feedbacks related to plant size and invasion success in a wetland community-ecosystem model. *Ecological Modeling*.
 84. Farrer, E.C., and D.E. Goldberg. *In press*. Mechanisms and reversibility of effects of hybrid cattail on a Great Lakes marsh. *Aquatic Botany*.
 85. Rosenthal, M., A.E. Aiello, C. Chenoweth, D. Goldberg, E. Larson, G. Gloor, B. Foxman. *In press*. Impact of technical sources of variation on the hand microbiome dynamics of healthcare workers. *PLOS One*.

BOOKS

- Krahulec, F., D.E. Goldberg, and J. H. Willems (eds.). 1995. Species coexistence in temperate grasslands. *Special Features in Vegetation Science* 8. Opulus Press, Uppsala.
- Vandermeer, J.H. and D.E. Goldberg. 2003. *Population Ecology: First Principles*. Princeton University Press, Princeton. 280 pp.
- Vandermeer, J.H. and D.E. Goldberg. 2013. *Population Ecology: First Principles*. Princeton University Press, Princeton. 2nd edition. 263 pp.