

CURRICULUM VITAE: DAVID JOHN GIBSON

Gibson, David John, Ph.D., FRSB

Emeritus Professor

University Distinguished Scholar

School of Biological Sciences

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Education:

B.Sc. Upper Second Class Honours in Botany with subsidiary Geology. Univ. of Reading, UK, 1979

M.S. Botany, Univ. of Oklahoma, USA, 1981. (Thesis advisor: P.G. Risser)

Ph.D. University of Wales, Bangor, UK, 1985. (Thesis advisor: P. Greig-Smith)

Awards:

Shawnee Resource Conservation & Development. Partner Organization of the Year 2019.

River to River Cooperative Weed Management Area. Award for Excellence in Addressing Invasive Species in Southern Illinois. 2017.

Sigma Xi, Outstanding Undergraduate Faculty Mentor Award, 2014.

University Distinguished Scholar, SIUC, 2008: see: <https://itunes.apple.com/us/itunes-u/outstanding-scholar-2008-group/id390532000?mt=10>

Outstanding Faculty Scholar, SIUC Faculty Senate, 2008.

Sigma Xi, Kaplan Research Award, 2008.

Outstanding Researcher. SIUC, College of Science, 2006.

Professional Affiliations:

Fellow and Chartered Biologist, Royal Society of Biology, London (supersedes former Institute of Biology from 1st October, 2009).

Fellow, Institute of Biology, London. Chartered Biologist with the Institute of Biology. Elected Member, 1984; elected Fellow, 1999.

Departmental Research Fellow, University of Oxford, UK, 2000-2002.

Sigma Xi, elected Member, 1993.

NSF Konza Prairie, Long-Term Ecological Research Group, 1986-ongoing

British Ecological Society, Journal of Ecology: Associate Editor 1992-1998; Senior Editor 1998-2013, 2019-2022, Executive Editor 2014-2019.

Ecological Society of America, member 1980 - ongoing

Institute for Coastal & Estuarine Research, Univ. West Florida 1989-1994.

Journal of Vegetation Science, Editorial Board Member. 1997-ongoing

Torrey Botanical Club: Subject Matter Editor 1991-1996.

Professional Experience:

2021- Senior Scientist, Creekbank Associates. <https://www.creekbankassociates.com/#home>
 2017 - Editor, Ecology Series, HS Talks. Audiovisual trainings.
<https://hstalks.com/playlist/1022/ecology/?biosci>.
 2011- Editor-in-Chief. Oxford Bibliographies Online, Ecology.
 2000-2023 Professor, Southern Illinois University
 1998-2022 Senior Editor, Journal of Ecology (Executive Editor 2010-2020)
 1994-2000 Associate Professor, Southern Illinois University
 1992-94 Assistant Professor, Southern Illinois University
 1988-92 Assistant Professor, University of West Florida
 1987-88 Assistant Scientist, Kansas State University. Participant in the NSF-LTER program
 1987 Staff Scientist, International Satellite Land Surface Climatology Project, Konza Prairie.
 1986 Research Associate (LTER Program), Kansas State University
 1985 Post-doctoral Research Fellow, Division of Pinelands Research, Rutgers University.
 1980 Research Assistant, Oklahoma Biological Survey, University of Oklahoma.
 1978 Student Summer Research Fellowship, Royal Botanic Gardens Kew, Wakehurst Place, UK.

Teaching Experience:

1992- Southern Illinois University: Ecology, Botany, Environmental Issues, Field Ecology, Grasslands Ecology (graduate), Forensic Botany, Plant Population Ecology (graduate), Ecology seminar (graduate), Ecological and Organismic Biology, Introduction to Research (graduate seminar).
 1988-92 University of West Florida: Courses taught: General Botany, Introductory Biology (Lab), Coastal Plant Communities (graduate seminar), Palaeobiology (graduate seminar), Plant Ecology, Plant Taxonomy & Evolution, Quantitative Ecology (graduate), Special Methods in Teaching Science, Student Teaching.
 1987 Fundamentals of Ecology, Kansas State University.
 Assisted T. R. Seastedt, course instructor.
 1981-84 Demonstrator, School of Plant Biology, University of Wales.
 1979-81 Teaching Assistant, Department of Botany/Microbiology, University of Oklahoma.

Post-doctoral Mentoring:

Dr. Katherine Kantz. SIUC, 1997-1998. NSF Long-Term Field Studies project.
 Dr. Gouyong Li. 2018-2019. Visitor from Hunan University, China.
 Dr. Qizhen Li. 2019-2020. Visitor from Central South University of Forestry and Technology, China.
 Dr. Renee Lopez-Swails. 2019-2023. River Region Noyce Master Teachers Program, SIUC.

Graduate Students (* Gibson = major advisor/co-advisor [n=42]; SIUC Department of Plant Biology unless stated otherwise; § recipient of James E. Ozment Achievement Award):

MS students:

1. Abbott, Matthew. 2012 Effects of experimental storm surge and sedimentation on Pitcher plants (*Sarracenia purpurea*) and associated assemblages in a coastal pine savanna. M.S SIUC.
2. *§ Adams, E. D. 1999. Vegetative analysis and examination of beta diversity at Burke Branch and Ozark Hill Prairies Research Natural Areas in the Shawnee National Forest, Illinois. M.S SIUC.
3. *Ahmed, Shamim. MS student.
4. Akanil, Nuket. 1996. Leaf litter decomposition along the Porsuk River, Eskisehir, Turkey. M.S. SIUC.
5. *Alwerdt, Jessica. 2003. Evaluating the effects of intraspecific competition in *Arabidopsis thaliana* L. ecotype Columbia and its mutants tmm1-1 and sdd1-2 M.S. SIUC. Co-advised with Andrew Wood.
6. *Barfknecht, David. 2018. Taxonomic and phylogenetic diversity of acid seep springs following biotic and abiotic disturbance. M.S. SIUC.
7. * Bergquist, Kiersten. 2020. Ecosystem functioning in restored grassland as influenced by ecotypic variation, precipitation, and biodiversity. M.S. SIUC. Co-advised with Dr. S. Baer.
8. *Beyerl, Tammie. 2001. Habitat and life history characteristics of *Dioscorea oppositifolia*, an invasive exotic plant in southern Illinois. M.S. SIUC.
9. Bhattacharyya, Sumita. 1999. An evaluation of an inquiry based field laboratory. M.S. SIUC.
10. *Bittner, Robert Todd. 1995. The demography and distribution of a rare grass: *Calamagrostis porteri* ssp. *insperata* in Southern Illinois. M.S. SIUC.
11. Boyer, James. 1995. Reexamination of *Eospermatopteris eriana* from the Upper Middle Devonian (=Givetian) Flora at Gilboa, New York.M.S. SIUC.
12. Bowman, Sarah E. 2013. Mature Cabernet Franc vine and groundcover ecosystem response to vineyard aisle managed cover crops. M.S. SIUC.
13. *§ Brandon, Alice. 2000. The effects of *Lespedeza cuneata*, an introduced species, on a old-field plant community. M.S. SIUC.
14. Bryan, Casey. 2020. MS SIUC.
15. Burkett, Carmen. 2023. Assessing the efficacy of Lepidopterans as pollinators in a Midwest pollination network. M.S. SIUC.
16. *Campbell, Jonathan E. 1996. Effect of exotic seeds transported via horse dung on the vegetative composition of trails in southern Illinois. M.S. SIUC.
17. Campbell, Ryan. 2009. Variation in benefit from arbuscular mycorrhizal fungal colonization within cultivars and non-cultivars of *Andropogon gerardii* and *Sorghastrum nutans*. M.S. SIUC.
18. Delfeld, Brad. 2020. MS student.
19. *Donatelli, Juliette. 2013. Forage quality of *Andropogon gerardii* across a precipitation gradient. M.S. SIUC.
20. Elsenheimer, Theresa. 1994. The effects of 14 years of biennial spring burning on above ground biomass and woody plant invasion in four Alexander County, Illinois Hill Prairies. M.S. SIUC.
21. Foster, Kari. 2004. Population dynamics and habitat analysis of a rare plant, *Trifolium reflexum*, in the northern portion of its range. M.S. SIUC.
22. Garrie, Kory. 2018. Prescribed fire effects on the invasive species *Achyranthes japonica* in southern Illinois. M.S. SIUC, forestry.
23. Goad, Rachel. 2012. Response of regional sources of tallgrass prairie species to climate and soil microbial communities. M.S. SIUC.

24. Hacker, Molly. 2018. Assessing seed bank contribution to landward expansion of coastal wetland communities and responses to fire. SIUC MS.
25. Hall, Yvonne. 1995. Stand and crown architecture characteristics of mature ponderosa pine forests in Colorado. M.S. SIUC.
26. *Hansen, Michael. 2009. Is ecological restoration successful? An assessment of a prairie restoration project in northern Illinois. M.S. SIUC.
27. Harris, P.T. 2014. The role of deer browsing on plant community development and ecosystem functioning during tallgrass prairie restoration. M.S. SIUC.
28. * Hickam, Erin. 1998. Variation of *Neotyphodium coenophialum* in *Festuca arundinacea* as influenced by plant age and nitrogen fertilization level. M.S. Biological Sciences (co-chair with J.A.Newman, Zoology).
29. Hickman, Andrea. 1997. The effect of elevated carbon dioxide on transmission of a barley yellow dwarf virus by to tall fescue (*Festuca arundinacea* Schreb.) by the bird cherry-oat aphid *Rhopalosiphum padi* L. M.S. Dept. of Zoology, SIUC.
30. *Hudgens, Faith. 2021. An assessment of stream quality in relation to population health of *Plantago cordata*. M.S. School of Biological Sciences, Plant Biology, SIUC.
31. *Inczauskis, Jason, R. 2011. Roadsides as corridors of exotic plant species invasion in southern Illinois, USA. M.S. SIUC. Co-advisee with Loretta Battaglia.
32. Johnson, M.A. 1998. The effect of local habitat variability on the growth, reproduction and morphology of *Matelea obliqua* (Jacq.) Woodson. M.S. SIUC.
33. Korchecki, K. 2004. Occurrence of *Celastrus orbiculatus* in forest ecosystems of southern Illinois M.S. Dept. of Geography, SIUC.
34. Koropchak, Sara. 2010. *Carex aquatilis* as a pioneer species for boreal wetland reclamation in northern Alberta. M.S. SIUC.
35. Kovacs, R.L. 1995. *Syzygites megalocarpus* (Mucoraceae, Mucorales, Zygomycetes) and its host-parasite association in the contiguous United States. M.S. SIUC.
36. *Lambert, A.M. 2008. Physiology of dominant grasses in prairie restoration: the effect of population seed source on plant performance, community structure, and ecosystem function. M.S. SIUC. Co-advisee with Sara Baer.
37. Lorenz, Melina. 1999. Feeding preferences of *Rhopalosiphum padi* (L) on endophyte-infected and endophyte-free tall fescue (*Festuca arundinacea* Schreber) and the effect of elevated carbon. M.S., Dept. of Zoology, SIUC.
38. * Martin, Elaine Luna. 1992. Patterns of genetic diversity in the rare mint *Conradina glabra* and its nearest relative *C. canescens*. M.S. UWF.
39. * Martinez, K. A. 2014. C₃ Grass seedling invasibility and secondary successional trends in an old field in Southern Illinois. MS. SIUC.
40. Mathis, Marilyn. 1996. Herbivory and vegetation dynamics in coal slurry ponds reclaimed as wetlands. M.S. thesis, SIUC.
41. *McCall, Robin K. 1995. Microclimatic influence on spatial heterogeneity and photosynthesis in *Sorghastrum nutans* (L.) Nash. and *Helianthus divaricatus* L. on southern Illinois loess hill prairies. M.S. SIUC.
42. McCoy, Roger A. 1997. Vegetation analysis and the effects of controlled fire at Atwood Ridge Research Natural Area. M.S. thesis, SIUC.
43. McLane, Craig. 2009. MS SIUC.
44. * Medvecz, Erin. 2017. Resisting invasion: Grassland plant responses to an invasive legume, *Lespedeza cuneata*. MS SIUC.

45. Murphy, Gwen. 2020. Habitat preferences of Gulf Coast fiddler crabs and responses of plant and soil characteristics to their burrowing. MS SIUC.
46. *Neal, T. 2018. Comparison of populations of *Achyranthes japonica* in the Ohio River valley. MS SIUC.
47. Pande, Archana. 2005. Habitat modeling to assess the risk of invasion by *Celastrus orbiculatus* on public lands in southern Illinois. M.S. SIUC, Dept. of Geography.
48. Perkins, Penny. 2002. The change in three Ozark hill prairies since cessation of management in 1989. M.S., Department of Forestry, SIUC.
49. Rastogi, A. 2018. Environmental impacts upon Arabidopsis: the role of DREBs. M.S. SIUC.
50. *Reed, Lewis. 2010. Competitive equivalence of cultivar and non-cultivar dominant grasses in an experimental restoration. M.S.SIUC. Co-advisee with Sara Baer.
51. *Rumpa, M.H. 2017. Effect of PPO-inhibiting herbicides on male-to-female sex ratios in *Amaranthus palmeri*. M.S. SIUC. Co-advised with Dr. K.Gage.
52. Saunders, N.E. 2005. Reproductive biology and population genetics of *Abronia ammophila* (Nyctaginaceae), and phylogenetic analysis of the *A. ammophila* species complex. M.S. SIUC.
53. *Schwartz, Lauren, M. 2011. The competitive response of *Panicum virgatum* cultivars to non-native invasive species in southern Illinois. M.S.SIUC.
54. Seaton, Nicholas. 2020. The effect of deer browse on *Achyranthes japonica*. M.S. SIUC.
55. Shimp, Jody P. 1996. Vegetation analysis of three Research Natural Areas on the Shawnee National Forest: Barker Bluff, Dennison Hollow and Panther Hollow. M.S. SIUC.
56. Shirley, Laura J. 2006. Fifty years of vegetation change in estuarine coastal transitions across the northern Gulf of Mexico. MS SIUC.
57. *Shupert, Lindsay. 2016. Integrative management of *Lespedeza cuneata* in prairie restorations. M.S. SIUC.
58. Singer, Steve. 2010. MS, SIUC. Department of Geography.
59. Sipek, William. 2021. MS student.
60. * § Skeel, Virginia A. 1995. Environmental effects on competition: Leaf gas exchange and production of *Sorghastrum nutans* (L.) Nash. on two reclaimed strip mines and a railroad prairie. M.S. SIUC.
61. *Smith, Katie M. 2013. Invasion and management of *Achyranthes japonica* in a southern Illinois wetland. M.S. SIUC.
62. Soley, Nathan. 2013. The reproductive biology of *Eleagnus umbellata* (Autumn olive): breeding system, pollinators, and implications for invasive spread. M.S. SIUC.
63. *Spyreas, Greg. 2000. Community diversity and endophyte infection levels in the genus *Festuca*. M.S. SIUC.
64. Stork, Emily. 2011. Invasiveness and invasibility in the Dolomite prairie plant community. M.S. SIUC.
65. Suchecki, Paul. 1999. Vegetation analysis of LaRue-Pine Hills/Otter Pond Research Natural Area in the Shawnee National Forest.M.S. SIUC.
66. Suchecki, Sharon, R. 1998. Restoration of a limestone glade and former barrens at Fults Hill Prairie Nature Preserve in southwestern Illinois. M.S. SIUC.
67. Tate, Anthony.2011. Short-term response to experimental storm surge and wrack application across an estuarine gradient in northwest Florida. M.S. SIUC.
68. Taylor, Jonathan. 1995. Litter decomposition in coal slurry ponds. M.S. SIUC.
69. Therrien, J.P. 1996. The systematics of *Porella* L.: The *Porella platyphylla* (L.) Pfeiff. and *P. platyphylloidea* (Schwein.) Lindb. species complex. M.S. SIUC.
70. *Thomas, J. 2004. Dispersal of the invasive *Dioscorea oppositifolia* L. along a tributary of Drury Creek in Giant City State Park Southern Illinois. M.S. SIUC. Co-advisee with Beth Middleton.
71. Trojnar, Aimee. 2003. Morphometric analysis of archaeological maize from the Casma Valley, Peru. M.S. SIUC.

72. *Urban, Jared. 2009. Niche and propagule limitation in a southern Illinois old-field. M.S. SIUC..
73. Walker III, Charles. 2007. Biological and ecological attributes of some endangered vascular plants of southern Illinois. M.S. SIUC.
74. *§ West, N.W. 2005. Microhabitat analysis of exotic species on Illinois shale barrens. M.S.SIUC.
75. * Wilker, John R. 1999. Hydrochory and seed density patterns within an alluvial Cypress-Tupelo swamp in Southern Illinois. M.S. SIUC.
76. *Wilson, Laurel. 2013. Plant community response to regional sources of dominant grasses in grasslands restored across a longitudinal gradient. M.S. SIUC.
77. Wood, James, L. 2010. Peatland communities and environmental parameters in an undisturbed boreal poor fen and a comparison with haul road disturbances. M.S. SIUC.

PhD students:

1. Adams, Bryan R. 1993. A taxonomic revision of the genus *Scaphyglottis* Poeppig & Endl. Ph.D. SIUC.
2. * Barfknecht, David F. 2022. Diversity, community structure shifts, and patch characteristics in natural xeric forest opening communities. PhD SIUC.
3. Basinger, Mark A. 1999. The effects of disturbance on the vegetation and flora of two old growth forests in southern Illinois. Ph.D. SIUC.
4. Benscoter, B.W. 2007. Temporal and spatial variability of peat accumulation and vegetation of post-fire boreal bogs. Ph.D. SIUC.
5. Bhattacharyya, Sumita. 2003. Influence of an extensive inquiry-based field experience on pre-service elementary student teacher's science teaching beliefs. PhD, Dept Curriculum & Instruction, College of Education, SIUC.
6. Bogosian III, Victor. 2010. PhD. SIUC.
7. *§ Chandy, Shiby. 2007. Spatial and temporal patterns across scales in the Shawnee National Forest, Illinois, USA. Ph.D. SIUC.
8. Decker, Madison, R. 2023. An evaluation of inter-seeded winter wheat (*Triticum aestivum*) for the suppression of common waterhemp (*Amaranthus tuberculatus*) in soybean (*Glycine max*). PhD SIUC.
9. *DeLong, Michael. 2009. Metapopulations and metacommunity in dry forest openings in Southern Illinois. IDNR Todd Fink Award, 2004. PhD SIUC.
10. *§ Ely, Joseph S. 2001. A test of the core-satellite species hypothesis in shale and sandstone glades in southern Illinois. PhD SIUC.
11. *Fessel, K.E. 2003. Regeneration of woody plant species in a cypress swamp in Illinois. PhD, SIUC. Co-advisee with Beth Middleton.
12. *Foster, Bryan. 2025. Population dynamics of feral *Cannabis sativa* L. across Illinois. PhD SIUC.
13. * Gage, Karla. 2013. Effects of anthropogenic selection pressure on the evolution of a common agricultural weed: Does adaptation come with a detectable cost? A study of glyphosate-resistant (GR) and –susceptible (GS) biotypes of *Conyza canadensis*. PhD SIUC. Co-advisee with Bryan Young.
14. Giedeman, Charles P. 1999. Restoration potential of farmed bottomland forests of the Mississippi River near St. Louis, Missouri. PhD, SIUC.
15. *§ Gustafson, Danny. 2000. Investigation of the genetic and ecological consequences of habitat reduction and fragmentation of remnant and restored tallgrass prairies. Ph.D. SIUC. Co-chair with D.Nickrent.
16. *§ Honu, Yohanas, A.K.. 2004. Diversity of exotic species across forest edges in the Shawnee National Forest, Illinois, USA. PhD SIUC.
17. *§ Hoyer, Erik. 2005. A functional assessment of restored and reference wetlands along the Cache river, Illinois. PhD SIUC. Co-advisee with Beth Middleton.

18. *Khalil, Mohammed, I. 2017. Effect of population sources and species pools on community phylogenetic and functional diversity during restoration. PhD SIUC.
19. Klopff, Ryan. 2013. Community and ecosystem changes in tallgrass prairie restorations: the effects of population source and diversity. PhD SIUC.
20. * Kurttural, Sahap Kaan. 2005. Balanced cropping of ‘Chambourcin’ grapevines and a spatial decision support system for vineyard site selection in southern Illinois. PhD SIUC. Co-advisee with B. Taylor (PLSS) & I. Dami.
21. * Liu, Xian. 2021. Prediction of non-native invasive plant species occurrences in relation to environmental variables in southern Illinois. PhD SIUC. Co-advised with Dr. Giangxing Wang.
22. Lunt, I.D. 1996. Ecology of native grasslands and grassy forests on the lowland Gippsland Plain, Victoria. Ph.D., La Trobe University, Australia (external examiner for dissertation).
23. Mathis, Marilyn. 2001. Deer herbivory and old field succession. PhD SIUC.
24. Manning, George. 2018. Environmental and biotic processes influencing floristic composition, quality, integrity, and function in tallgrass prairie assemblages. PhD SIUC.
25. Messinger, Olivia J. 2013. The role of visual and olfactory cues in host recognition for the specialist bee genus *Diadasia*, and implications for the evolution of host choice. PhD SIUC.
26. *§ Millar, K.D.L. 2008. Physiological and nutritional studies of oilseed crops in response to competition and manganese supply. PhD SIUC. Co-advisee with Andrew Wood.
27. Mettler-Cherry, Paige A. 2004. Population biology of the threatened floodplain species, *Boltonia decurrens*: determination of stage based demography and implications for succession. PhD SIUC.
28. McClelland Mooneyhan, Rebecca. 2011. Ground layer response to disturbance in the pine-dominated eastern foothill region of Alberta, Canada. PhD SIUC.
29. Muncia, Clara. 2018. Examining the factors influencing the abundance and distribution of sorghum (*Sorghum bicolor* [L.]: a preliminary analysis of the west Sahel of Sub-Saharan Africa. PhD ER&P program, SIUC.
30. Osborn, Heather. PhD student.
31. Nolte, S. A. 2009. Characterizing the response of *gdhA* transformed tobacco to glufosinate. PhD SIUC.
32. Paudel, Shishir. Climate change, shifts in tropical storm regimes and *Triadica sebifera* invasion on the coastal Mississippi United States. PhD SIUC.
33. Qie, Guangping. 2019. Mapping and uncertainty analysis of urban vegetation carbon density by combining spatial modeling, de-shadow & spectral unmixing analysis., PhD SIUC ER&P program.
34. * Ren, Zhe. 2002. Inferring mechanisms of community assembly from phylogenetic and functional diversity. PhD SIUC.
35. *Romano, Susan P. 2006. Forest strata assemblage relationships and tree growth response to flooding in a hydrologically modified floodplain, southwestern Illinois, USA. PhD SIUC. Co-advisee with Jim Zaczek, Forestry.
36. Sankaran, R. 2005. Effects of heavy metals on growth and reproductive development of plants. PhD SIUC.
37. *Schwartz, Lauren. 2015. A comparative study of the population dynamics of four Amaranthaceae species. Co-advisee with Bryan Young. PhD SIUC.
38. Scott, Drew. 2019. Environmental heterogeneity effects on diversity and nitrous oxide emissions from soil in restored prairie. PhD SIUC.
39. Shultz, Jeffry. 2005. Recently duplicated genomes and genic regions can be resolved with fingerprinting given sufficient and appropriate bio-informatic analysis. PhD SIUC.
40. *Thapa, Saroj. 2024. (co-advised with Dr. Li). Landcover change and its implications for ecosystem services in the Greater Shawnee National Forest. PhD SIUC, ER&P program.

41. Thogmartin, Wayne, E. 2001. Spatio-temporal dynamics of northern bobwhite (*Colinus virginianus*) in Illinois. PhD dissertation. SIUC, Department of Zoology.
42. Winther, Austin. 1998. Teacher decision-making in implementing a new environmental education curriculum: A qualitative study. PhD. SIUC, College of Education, Department of Curriculum and Instruction.
43. *Willand, Jason. 2014. When do propagules matter? The role of ecological filters and regeneration dynamics during community assembly in tallgrass prairie restorations. PhD SIUC. Co-advisee with Sara Baer.
44. Wodika, Ben, R. 2015. Community responses of above and belowground invertebrates to prairie restoration: the effects of time, seed source, plant diversity, and plant community composition. PhD SIUC.
45. Wuerffel, R.J. 2014. A characterization of selection for evolved resistance to protoporphyrinogen oxidase (PPO)- inhibiting herbicides in *Amaranthus tuberculatus*. PhD SIUC.

Non-thesis students (title of practicum shown):

1. *Aymond, Neil. M.S. Coastal Zone Studies, UWF. 1991. Pensacola Naval Air Station nature trail.
2. *Athnos, Diana L. M.S. Coastal Zone Studies, UWF. 1992. Compensatory mitigation in the Gulf Coast States: Can we achieve "no net loss" of wetlands?
3. *Hardy, Philips B. M.S. Coastal Zone Studies, UWF. 1992. A characterization of East Pond, a barrier island dune pond within the Fort Pickens unit of the Gulf Islands National Seashore.
4. *Looney, Paul B. M.S. Coastal Zone Studies, UWF. 1992. The Perdido Key beach renourishment project.

Current thesis/dissertation students (* advised/co-advised by Gibson):

1. *Carrigan, Christopher Kane. MS student (co-advised with Dr. Holzmüller).
2. *Felsl, Ingrid. MS student.
3. Xu, Xiaoyu. PhD student, ER&P program.

Funded Grants (total \$7,565,139):

National Science Foundation. 1986, with R.E. Good, M.D. Morgan & H.G. Spratt. Support of the Rutgers Pinelands Field Station as a National Field Research Facility, \$100,000.

National Science Foundation LTER Program, subcontract through Kansas State University. 1989. "Survey of permanent plots at Konza Prairie Research Natural Area," \$5,406.

University of West Florida, Committee on Scholarly and Creative Activities. 1989. "Forest tree composition on the University of West Florida campus", \$1,500.

National Park Service. 1989-1994. "Vegetation monitoring before and after beach renourishment on Perdido Key", \$237,951 plus \$111,422 matching from UWF.

National Science Foundation LTER Program, subcontract through Kansas State University. 1990. "Survey of permanent plots at Konza Prairie Research Natural Area, 1990," \$6,016.

University of West Florida, Committee on Scholarly and Creative Activities. 1990. "Population biology of a dioecious shrub: *Ceratiola ericoides* (Florida Rosemary)", \$1430.

National Science Foundation. 1991-1994, with D.C. Hartnett, B.A.D. Hetrick & A.P. Schwab. "Mycorrhizal mediation of plant competition and community structure," \$278,381.

- University of West Florida, College of Art & Sciences, Resource Allocations Committee, Research Awards for Newer Faculty. 1992. "Effects of sand fencing on dredge spoil stabilization." \$1,200.
- National Science Foundation. 1994-1997, with D.C. Hartnett, B.A.D. Hetrick & A.P. Schwab. "Mycorrhizal mediation of grassland biotic interactions and plant community structure." \$330,000.
- Illinois Department of Conservation. 1993. "Distribution of *Calamagrostis insperata* in Southern Illinois". \$3,000.
- USDA/Forest Service. 1993. "Distribution of *Calamagrostis insperata*". Tri-partite Challenge Cost-Share Agreement between USDA/Forest Service, IDOC & SIUC. \$700.
- SIUC/ORDA. 1993-1995. "Field measurements of photosynthetic rates of prairie grasses on coal mine spoils." \$19,314.
- USDA/Forest Service. 1993-1999. "Research Natural Area plot monitoring program". \$10,000.
- National Park Service. 1994. "Coastal Park Inventory & Monitoring Protocols." \$300.
- SIUC/ORDA. 1995. "Effects of a fungal endophyte on competitiveness of tall fescue." Summer Fellowship.
- SIUC/ORDA. 1995, with J.A. Newman. "Plant-animal interactions under global environment change." University Priorities and Interdisciplinary Initiative Program. \$6,000.
- USDA/Forest Service. 1995. "Dispersal of plant species by horses and deer within Natural Areas on the Shawnee National Forest." \$3,762.
- Illinois Nature Preserves Commission. 1995-1997, with D. Nickrent. "Assessment of baseline genetic and ecological data on selected prairie plant species: Implications for conservation and management." \$29,491.
- C-FAR Research Initiative. 1996-98, with J.A. Newman & R.G. Dado. "Effects of changes in ambient CO₂ concentrations and the endophytic fungus (*Acremonium coenophialum*) on the yield and digestibility of tall fescue (*Festuca arundinacea*)." \$90,000.
- National Science Foundation. 1996-1999, with B.A. Middleton, G.S. Saunders, A. Lumpe, & F. Olsen. "Long-term field studies in undergraduate education: A snapshot in time." \$242,000.
- Illinois Department of Natural Resources. 1996-1997, with J. Ely. "Effects of various management regimes on species composition in shale glade communities in Southern Illinois." \$1,000.
- British Ecological Society. 1998-1999. "Performance of tall fescue (*Festuca arundinacea* Schreber.) populations in Great Britain". Small Ecological Project Grant No. 1584. GBP 1,800 (~\$2,900)
- SIUC/University Core Curriculum Executive Council. 1998. "A writing across the curriculum assignment for Environmental Issues (PLB 301i): A university core curriculum course." Teaching Enhancement Award. \$3,400 awarded for Summer 1998.
- SIUC. Sabbatical Leave Extension Award. 1.5 month of summer salary awarded for Summer 1999. \$7920 plus fringe benefits.
- Oxford University Press. 1998-2000, with M.J. Hutchings, & E. John. Methods in Comparative Plant Population Ecology. Book contract. GBP1,000 (~\$1,640) advance royalties.
- Teaching Excellence in Mathematics and Science Committee. New Program Request for Teaching Excellence in Mathematics and Science Initiative for RAMP 2000. \$448,000 requested, \$400,000 approved for funding in the IBHE budget.
- Illinois Department of Natural Resources. 1999-2000, with G. Spyreas. "Life history studies on *Microstegium vimineum* an invasive exotic in Southern Illinois." \$1,000.
- British Ecological Society. 2000-ongoing. "Editorship: Journal of Ecology." \$126,000+ as of Jan 2019.
- Illinois Department of Natural Resources. 2000-2001, with T. Beyerl. "Habitat and reproduction in *Dioscorea batatas* an invasive plant species in southern Illinois." \$1,000.
- Illinois Department of Natural Resources. 2000-2001. "Comparative life history studies of *Microstegium vimineum*, an invasive exotic in Southern Illinois." \$1,000.

- USDA Forest Service, North Central Experimental Station. 2000-2004, with P.A. Robertson. “Preliminary analysis of vegetation patterns in southern Illinois RNAs.” \$7,500.
- Illinois Department of Natural Resources. 2000-2002, with B.A. Middleton. “Dispersal of the exotic *Dioscorea oppositifolia*.” \$10,500.
- Illinois Department of Natural Resources. 2000-2003, with Dale Vitt. “Biological and ecological attributes of the endangered vascular plants of southern Illinois.” \$5,000.
- Illinois Department of Natural Resources. 2000-2003, with Sedonia Sipes. “Genetic diversity of *Dioscorea oppositifolia*, an invasive exotic in southern Illinois.” \$1,000.
- National Science Foundation (subcontracted through New Mexico State University). 2002-2003, with Matthew Whiles. “Fitting metapopulation models of community structure to stream macroinvertebrate data: issues and problems of taxonomic resolution.” A cross-site LTER research project. \$6,000.
- Illinois Endangered Species Protection Board. 2002-2004. “Reproductive biology of *Calamagrostis insperata*, bluejoint grass.” \$15,870.
- Oxford University Press. 2003-2006. Book contract: “Grasses and Grassland Ecology.” Advance Royalties of ~ \$3,200.
- USDA Forest Service. “Bluejoint grass restoration: Challenge-Cost Share Agreement.” 2003-2008. \$5,000.
- British Ecological Society. “Biological Flora of a rare fescue (*Festuca longifolia* Thuill).” 2003. £1,405 (~\$2,000).
- Illinois Department of Natural Resources. 2003-2004, with Natalie West. “Invasion of the exotic Japanese bush clover (*Kummerowia striata*) in Illinois shale barrens.” \$1,000.
- USDA NRICGP Program. 2004-2006, with Andrew Wood and Bryan Young. “Quantifying multispecies interactions between crops (soybean: *Glycine max*) and weeds: a new approach.” \$200,000.
- Illinois Department of Natural Resources. 2003-2004, with Natalie West and Michael Delong. “Collier Glade Restoration Project.” \$1,980.
- Illinois Department of Natural Resources. 2003-2004, with Natalie West and Michael Delong. “Collier Glade Restoration Project – Year 2.” \$1,430.
- USDA Forest Service, Shawnee National Forest. 2004-2006, with Loretta Bataglia. “Inventory of Non-native Invasive Species.” \$10,000.
- Illinois Soybean Program Operating Board. 2004-2005, with Bryan Young and Andrew Wood. “Detecting non-visible soybean stress resulting from weed management practices.” \$6,500.
- Illinois Department of Natural Resources. 2005, with Sara Baer and Matt Whiles. “Center for Ecology/IDNR Undergraduate student internships.” \$10,000.
- Illinois Department of Natural Resources. 2005-2006, with Sedonia Sipes. “Analysis of Illinois plants in need of conservation – a supplement to the Comprehensive Wildlife Conservation Plan.” \$12,210.
- Illinois Department of Natural Resources. 2005-2006, with Michael Delong. “Inventory and management of forest openings as metapopulations.” \$1,997.
- National Science Foundation. 2005 – 2008, with Sara Baer. “Hierarchical Consequences of Intraspecific Variation on Community and Ecosystem Re-assembly.” \$459,551.
- Illinois Department of Natural Resources. 2006, with Sara Baer and Matt Whiles. “Center for Ecology/IDNR Undergraduate student internships.” \$10,000.
- Illinois Clean Energy Community Foundation. 2007-2009, with Sara Baer, John Groninger and Matt Whiles. “Statewide Natural Land Management Internship Program.” \$30,000.
- National Science Foundation. 2007 – 2011, with Karen Renzaglia, Sedonia Sipes, Harvey Henson and Frackston Mumba. “Heartland Partnerships: Inquiry-based Ecological and Environmental Education at SIUC.” \$1,862,457.

- Illinois Department of Natural Resources. 2007, with Sara Baer and Matt Whiles. "Center for Ecology/IDNR Undergraduate student internships." \$10,000.
- US Fish and Wildlife Service. 2007, with Loretta Battaglia. "Invasive Species Survey on Cypress Creek NWR." \$7,900.
- National Great Rivers Research & Education Center. 2008, with Loretta Battaglia. "If we build it, will they leave? Evaluating invasive species assemblages across a chronosequence of restored floodplain forest." \$5,800.
- National Science Foundation. 2008-2009, with Sara Baer and Danny Gustafson. "Genotype sorting as a mechanism for structuring plant communities". ROA Supplement to Hierarchical Consequences of Intraspecific Variation on Community and Ecosystem Re-assembly." \$24,589 (subcontract to D. Gustafson at The Citadel).
- Illinois Department of Natural Resources. 2008, with Matt Whiles, Sara Baer and John Groninger. "Center for Ecology/IDNR Undergraduate student internships." \$10,000.
- Illinois Clean Energy Community Foundation. 2008-2009, with Sara Baer, John Groninger and Matt Whiles. "Continuation of Statewide Natural Land Management Internship Program." \$56,266.
- USDA/CREES/NRI subcontract through Kansas State University – Plant Biology and Abiotic Stress Program. 2008-2010. "Ecotypic variation and functional response of an ecologically dominant species across a precipitation gradient and in response to altered precipitation: Test for local adaptation and ecosystem function". L. Johnson, E. Achunov, S. G. Baer, K. Garrett, T. Morgan, and P. St. Amand. Total Award: \$394,439 (includes \$149,813 Subcontract from Kansas State University to S. G. Baer and D. J. Gibson).
- Illinois Department of Natural Resources. 2008 - 2009, with Eric Holzmüller. "Response of flowering dogwood (*Cornus florida*) to dogwood anthracnose and fire in southern Illinois." \$2,065.
- Illinois Department of Natural Resources. 2009, with Matt Whiles, Sara Baer and John Groninger. "Center for Ecology/IDNR Undergraduate student internships 2009." \$12,353.
- US Forest Service. 2009-2014. "Shawnee National Forest vegetation plot analysis." \$8,402.
- Illinois Department of Natural Resources. 2010, with John Groninger, Sara Baer and Matt Whiles. "Center for Ecology/IDNR Undergraduate student internships 2010." \$12,353.
- Illinois Clean Energy Community Foundation. 2010-2013, with Sara Baer, John Groninger and Matt Whiles. "Training Illinois' future natural resource managers through a statewide natural areas internship Program." \$33,320.
- Illinois Department of Natural Resources. 2011, with Sara Baer, John Groninger, and Matt Whiles. "Natural Areas Management Internship Program 2011." \$12,353.
- Illinois Department of Natural Resources. 2011. "Stiltgrass summit field trip and public lecture." \$2,893.
- Illinois Department of Natural Resources. 2012-2013. "Population dynamics of endangered *Iresine rhizomatosa*." \$1,998.
- Illinois Department of Natural Resources. 2014. "Herbaceous sampling Trail of Tears State Forest." \$4,900.
- Dow Agrosciences. 2012-2019. "Field trials." \$15,000.
- Shawnee RC&D. 2015-2017. "Invasive Species Data Compilation." \$66,515.
- Shawnee RC&D. 2018. "River to River Cooperative Weed Management Area Project Coordination." \$15,312.
- National Science Foundation. 2018-2023. River to River Master Teaching Fellowships in Environmental Sustainability. With Karen Renzaglia (lead PI), S. Green, Mike Lydy, Leslie Durham. \$2,196,757.
- U.S. Forest Service, State & Private Forestry, Northeastern Area. 2018-2021. "Landscape Scale Stewardship Clusters: Prioritized Implementation of Oak Ecosystem Recovery" to Shawnee RC&D. \$298,005. SIUC Subcontract \$42,969.

Monsanto, Inc. 2018-2020. "Functional trait and phylogenetic diversity relationships of weed communities to cropping systems across a 6 state area." With co-PI Karla Gage. \$46,389.
 Shawnee RC&D. 2018. "Trail of Tears Vegetation Data Analysis." \$7, 270.
 National Science Foundation. 2020-2023. "Collaborative research: exploring the impact of Noyce Master Teaching Fellowship programs on teacher retention: The role of motivation, leadership, and school-work environment." With Karen Renzaglia and collaborators at Rice University. \$104,961 to SIUC.
 Chicago Botanic Garden. 2021-2023. "Southern Illinois Plants of Concern Program. \$305,315.
 Creekbank Associates LLC. 2021-2022. "Population Modelling." \$8,000.

Scientific Talks and Invited Presentations. This is an incomplete list, Gibson as presenter when shown in bold, oral presentation unless indicated otherwise. Presentations are identified as (I) invited, (L) local, (N) national or International (It).

1. **Gibson, D.J.**, Johnson, F.L., & Risser, P.G. 1980. Natural revegetation of coal strip mines in eastern Oklahoma. Oklahoma Academy of Science, Norman, OK. (N)
2. **Gibson, D.J.**, Johnson, F.L., Risser, P.G. 1981. Natural revegetation on abandoned coal strip mines in Eastern Oklahoma. Southwestern Association of Naturalists, 27th Annual Meeting, New Orleans, LA. (N)
3. **Gibson, D.J.** 1981. Heavy metal tolerance without the evolution of tolerant races. British Ecological Society Annual Meeting, Southampton, UK. (N)
4. **Gibson, D. J.** 1983. Plant spatial patterns and soil heterogeneity relationships in grassland. British Ecological Society Annual Meeting, Leicester, UK. (N)
5. **Gibson, D.J.** 1984. Plant spatial patterns and soil heterogeneity relationships in grassland. Invited talk. Institute of Terrestrial Ecology, Bangor, UK. (I)
6. **Gibson, D.J.**, Colquhoun, I.A., & Greig-Smith, P. 1984. A new method for measuring nutrient supply rates in soils using ion-exchange resins. Poster. British Ecological Society Meeting, Ecological Interactions in Soil, York, UK. (N)
7. **Gibson, D.J.** 1985. Small-scale patterns and soil heterogeneity in grassland. Rutgers University Seminar Series, New Brunswick, NJ. (I)
8. **Gibson, D.J.** 1985. The role of soil heterogeneity in the control of plant spatial patterns in a dune grassland. Ecological Society of American Annual Meeting, Minneapolis, Mn. (N)
9. **Gibson, D.J.** 1985. The measurement of root activity in soils using a non-radioactive tracer. New Jersey Academy of Science, Trenton, NJ. (N)
10. **Gibson, D.J.**, Collins, S.L., & Good, R.E. 1986. Early effects of ecosystem fragmentation on oak-pine vegetation in the New Jersey Pine Barrens. IVth International Congress of Ecology, Syracuse, NY. (It)
11. **Gibson, D.J.** 1987. The experimental approach in plant ecology. Invited talk. Rutgers University Seminar Series, New Brunswick, NJ. (I)
12. **Gibson, D.J.** 1987. Fire effects on tallgrass prairie. Invited talk, University of Oklahoma Seminar Series, Norman, OK. (I)
13. **Gibson, D.J.** 1987. Fire effects on tallgrass prairie vegetation. Ecological Society of American Annual Meeting, Columbus, OH. (N)
14. **Gibson, D.J.**, & Collins, S.L. 1987. Effects of fire and disturbance on plant community structure in tallgrass prairie. British Ecological Society Annual Meeting, Cambridge, UK. (N)

15. **Gibson, D.J.** 1988. Comparison of fire effects in forest and grassland. Invited talk. Archbold Biological Station, Lake Placid, FL. (I)
16. **Gibson, D.J.** 1988. Comparison of fire effects in forest and grassland. Invited talk, University of Connecticut, Storrs, CT. (I)
17. **Gibson, D.J.** 1988. Comparison of fire effects in forest and grassland. Invited talk, University of West Florida, Pensacola, FL. (I)
18. **Gibson, D.J.** 1989. The influence of grazing by small mammals and invertebrates on plant species richness and abundance in tallgrass prairie. Poster. Ecological Society of American Annual Meeting, Toronto, Canada. (It)
19. **Gibson, D.J.**, Hartnett, D.C. & Merrill, G.L.S. 1989. Fire temperature heterogeneity in contrasting fire prone habitats: Kansas tallgrass prairie and Florida sandhill. Poster. 17th Tall Timbers Fire Ecology Conference, Tall Timbers Research Station, Tallahassee, FL. (N)
20. **Gibson, D.J.** 1990. Plant population and community studies on NW Florida coastal dunes. Invited talk. Natural History Seminar Series, Florida State University, Tallahassee, FL. (I)
21. **Gibson, D.J.** 1990. Natural history of Konza Prairie Research Natural Area, Kansas. Audubon Society, Pensacola, FL. (I)
22. **Gibson, D.J.**, Looney, P.B., & Cousens, M.I. 1990. Succession in coastal barrier island communities over a ten-year period. Ecological Society of American Annual Meeting, Snowbird, UT. (N)
23. **Gibson, D.J.** 1991. Demography and pattern of Florida Rosemary in Panhandle Scrub. Invited talk. Archbold Biological Station, Spring Seminar Series. Archbold Biological Station, Lake Placid, FL. (I)
24. **Gibson, D.J.** 1990. Fire Ecology. Science Seminar for Superior Students, University of West Florida, Pensacola, FL. (I)
25. **Gibson, D.J.**, P.B. Looney, & R.L. Hill. 1991. Seasonal variation in vegetation classification of a Florida coastal barrier island. Poster. Ecological Society of American Annual Meeting, San Antonio, TX. (N)
26. **Gibson, D.J.** 1992. Plant population and community studies on NW Florida coastal dunes. Invited talk. Southern Illinois University at Carbondale, Carbondale, IL. (I)
27. **Gibson, D.J.** & E.S. Menges. 1992. Demographic studies of the dioecious shrub, Florida rosemary (*Ceratiola ericoides* Michx.), from coastal and inland scrub. History and Ecology of the Florida scrub 1992 Conference Commemorating the 50 th Anniversary of Archbold Biological Station, Lake Placid, FL. (I)
28. **Gibson, D.J.** & E.S. Menges. 1993. Demographic studies of the dioecious shrub, Florida rosemary (*Ceratiola ericoides* Michx.), from coastal and inland scrub. Ecological Society of American Annual Meeting, Madison, WI. (N)
29. **Gibson, D.J.** 1994. Primary succession on a coastal barrier island. Illinois State University, Seminars in the Biological Sciences. March 31, 1994. (I)
30. **Gibson, D.J.** 1994. Where do non-science majors find environmental science? National Association of Biology Teachers, Annual Conference, St. Louis, MS. (Poster presentation). (N)
30. **Gibson, D.J.** 1994. Effects of fire on plant communities in the Konza Prairie Research Natural Area (Manhattan, Kansas). SIUC Department of Plant & Soil Science seminar series. Nov 15. (I)
31. **Gibson, D.J.**, Ely, J.S., & Looney, P.B. 1994. Primary succession on dredge spoil deposited on a northwest Florida coastal barrier island. Ecological Society of America Annual Meeting, Knoxville, TN. (Poster presentation). (N)
32. **Gibson, D.J.** & G. Towne. 1994. Dynamics of Big bluestem (*Andropogon gerardii*) in ungrazed Kansas tallgrass prairie. Fourteenth North American Prairie Conference, Kansas State University, Manhattan, KS. (N)

32. **Gibson, D.J.** 1995. Fire and Bison: Konza Prairie Research Area, Kansas. SIUC Wildlife Society seminar series. Feb 16, 1995. (I)
33. **Gibson, D.J.** 1994. Where do non-science majors find environmental science? SIUC Sigma Xi Research Day. (Poster presentation). (N)
34. **Gibson, D.J.**, Ely, J.S., & Looney, P.B. 1994. Primary succession on dredge spoil deposited on a northwest Florida coastal barrier island. SIUC Sigma Xi Research Day. (Poster presentation). (N)
35. **Gibson, D.J.**, & Looney, P.B. 1995. The soil seed bank of a coastal barrier island. Ecological Society of America Annual Meeting, Snowbird, Utah. (N)
36. Skeel, V.A., & **Gibson, D.J.** 1995. Leaf gas exchange of *Andropogon gerardii* Vitman, *Panicum virgatum* L., and *Sorghastrum nutans* (L.) Nash on restored mine spoil. Ecological Society of America Annual Meeting, Snowbird, Utah. (Poster presentation). (N)
37. **Gibson, D.J.**, Newman, J.A., & V.A. Skeel. 1996. Physiological effects of a fungal endophyte on competitiveness of tall fescue. Ecological Society of America Annual Meeting, Providence, RI. (N)
38. **Gibson, D.J.**, Middleton, B.A., & G.W. Saunders. 1996. The establishment of a long-term field experiment to enhance undergraduate ecology education. Ecological Society of America Annual Meeting, Providence, RI. (Poster presentation). (N)
39. Skeel, V.A., & **Gibson, D.J.** 1996. Leaf gas exchange of *Andropogon gerardii* Vitman, *Panicum virgatum* L., and *Sorghastrum nutans* (L.) Nash on restored mine spoil. SIUC Sigma Xi Research Day. (Poster presentation). (N)
40. **Gibson, D.J.**, Middleton, B.A., & G.W. Saunders. 1996. Enhancing undergraduate education in environmental science and ecology: The role of long-term field studies. SIUC Showcase for Regional Innovation. (N)
41. **Gibson, D.J.**, Middleton, B.A., & Saunders, G.S. 1997. Directed inquiry in ecology instruction: the transition. Ecological Society of America, Annual Meeting, Albuquerque, NM. (Poster presentation). (N)
42. **Gibson, D.J.**, Newman, J.A., Dado, R.G., & Hadlock, T. 1997. Elevated CO₂ effects on the *Festuca arundinacea* endophyte mutualism. British Ecological Society, Winter and Annual General Meeting, December, 1997. (N)
43. **Gibson, D.J.** Elevated CO₂ effects on the tall fescue-endophyte system. Ohio University, Department of Environment and Plant Biology Colloquim Series. Feb 6th, 1998. (I)
44. **Gibson, D.J.**, Newman, J.A., Dado, R.G., Hickman, A., & M. Abner. Nitrogen effects upon the tall fescue-endophyte mutualism under elevated CO₂. Ecological Society of America, 83rd Annual Meeting, Baltimore, MD. Aug 2-6, 1998. (N)
45. **Gibson, D.J.** Newman, J.A., Dado, R.G., Hickman, A., & Abner, M. Nitrogen effects on the response of the tall-fescue (*Festuca arundinacea*) – endophyte (*Neotyphodium coenophialum*) mutualism to elevated CO₂. British Ecological Society, Winter Annual Meeting, Leicester University, UK. Jan 3-5, 1999. (N)
46. **Gibson, D.J.**, & Ely, J.S. 1999. Using sample dissimilarities to measure community heterogeneity: unacceptable sensitivity of the statistically correct method. British Ecological Society, Annual Symposium, Ecological Consequences of Habitat Heterogeneity, University of Sussex, UK. Mar 23-25, 1999. (Poster presentation). (N)
48. **Gibson, D.J.**, Adams, E.D., Ely, J.S., Gustafson, D.J., McEwen, D.N., & Evans, T. 1999. Eighteen years of herbaceous layer recovery of a recreation area in an oak-hickory forest. Ecological Society of America, 84th Annual Meeting, Spokane, Wa, 8-12 August, 1999. (Poster presentation). (N)

49. **Gibson, D.J.**, & Taylor, I. 2001. Morphological variation in populations of *Festuca arundinacea* in England. Ecological Society of America, 86th Annual Meeting, Madison, WI, 5-10 August, 2001. (Poster presentation). (N)
50. **Gibson, D.J.** 2002. Aliens in the Ecology Lab. SIUC Ecology Consortium Seminar Series. March 20, 2002. (N)
51. **Gibson, D.J.**, Spyreas, G., & Benedict, J. 2002. Life history of *Microstegium vimineum* (Poaceae), an invasive exotic in southern Illinois. Ecological Society of America, 87th Annual Meeting, Tucson, AZ, August 4-9, 2002. (Poster presentation). (N)
52. **Gibson, D.J.**, Middleton, B.A., Foster, K., Honu, Y.A.K., Hoyer, E., & Mathis, M. 2003. Core and satellite species dynamics in response to disturbance and fertilization during early old-field succession. Ecological Society of America, 88th Annual Meeting, Savannah, GA, August 4-8, 2003. (Poster presentation). (N)
53. Romano, S.P., Zaczek, J.J., Williard, K., Gibson, D.J., Battaglia, L.L., & Baer, S.G. 2005. Soil texture and forest strata relationships of the central floodplain forest, lower Kaskaskia river, Illinois. Mississippi River Research Consortium, 37th Annual Meeting Program. Radisson, La Crosse, Wisconsin. April 29th, 2005. (N)
54. Wood, A.J., D.J. Gibson, B.G. Young, J. Connolly, L. Kirwan, K. Millar, & J.S. Ely. 2005. Quantifying multispecies interactions between crops (soybean: *Glycine max*) and weeds: a new approach. USDA-CRESS Project Directors Meeting, Washington DC. November, 2005. (N)
55. Brophy, C., Connolly, J., Wayne, P.M. & Gibson, D.J. 2006. Modelling reproductive allocation in *Sinapis arvensis*. (Proceedings of the 26th) Conference on Applied Statistics in Ireland.. May 17 – 19, The Hotel Europe, Killarney, Co. Kerry, Ireland. (N)
56. Brophy, C., Gibson, D.J., Wayne, P.M. & Connolly, J. 2006. Modelling reproductive allocation in *Sinapis arvensis*. Ecological Society of America, 91st Annual Meeting, Memphis, TN, August 6-11, 2006. (N)
57. Delong, M. K., Heatherly, T, Whiles, M.R., Gibson, D.J., Collins, S.L., Huryn A.D., Jackson, J.K. & Palmer, M.A. 2006. Modeling of patch occupancy patterns in stream insect metacommunities: toward an understanding of factors influencing the distribution of stream insects. Ecological Society of America, 91st Annual Meeting, Memphis, TN, August 6-11, 2006. (Poster presentation). (N)
58. **Gibson, D.J.**, Wood, A.J., Young B.G., Connolly, J., Kirwan L., Millar K. & Ely, J. 2006. Quantifying multispecies interactions between crops (soybean: *Glycine max*) and weeds: a new approach. Ecological Society of America, 91st Annual Meeting, Memphis, TN, August 6-11, 2006. (Poster presentation). (N)
59. Hansen, M. J., & Gibson, D.J. 2006. Is ecological restoration successful? An assessment of a prairie restoration in northern Illinois, US. Ecological Society of America, 91st Annual Meeting, Memphis, TN, August 6-11, 2006. (Poster presentation). (N)
60. Inczauskis, J.R., M.S. Hacker, L.L. Battaglia, D.J. Gibson. 2006. Construction of a non-native invasive species database for eleven southern Illinois counties. [Midwest Invasive Species Network Symposium](#), 61st Meeting North Central Weed Society. Dec 11th – 14th, Hyatt Regency, Milwaukee, Wisconsin. (R)
61. Inczauskis, J.R., Schroeder, M.M., Battaglia, L.L. & Gibson, D.J. 2006. Development of a non-native invasive species database for Southern Illinois. Saint Louis Area Undergraduate Research Symposium, Washington University School of Medicine, Eric P. Newman Education Center, Washington University in Saint Louis, Saint Louis. April 22, 2006. (N)
62. Millar, K. Gibson, D.J., Young, B.G., & Wood, A.J. 2006. Seed quality dynamics of soybean grown under competition. 61st Meeting North Central Weed Society. Dec 11th – 14th, Hyatt Regency, Milwaukee, Wisconsin. (R)

63. Romano, S.P., Zaczek, J.J., Gibson, D.J., Baer, S.G., Battaglia, L.L. & Williard, K. 2006. Implications of succession, flood duration, flood frequency, and soil texture for overstory, midstory, and seedling communities of a central floodplain forest, southern illinois, USA. International Conference on Rivers and Civilization: Multidisciplinary Perspectives on Major River Basins, La Crosse, Wisconsin USA June 25-28, 2006. (N)
64. West, N. M., Gibson, D.J. & Minchin, P.R. 2006. Exotic species microhabitats in Illinois shale barrens. Ecological Society of America, 91st Annual Meeting, Memphis, TN, August 6-11, 2006. (Poster presentation). (N).
65. Brophy, C., Gibson, D.J., Wayne, P.M. & Connolly, J. 2007. A mixture model and bootstrap analysis to assess reproductive allocation in plants. International Workshop of Correlated Data Modelling. University of Limerick, June 20-22. (I).
66. Delong, M.K. & Gibson, D.J. 2007. Vascular plant metapopulation dynamics and metacommunity structure within prairie-like forest openings in southern Illinois. Ecological Society of America, 92nd Annual Meeting, Society for Ecological Restoration 18th International Conference. August 5th – 10th, 2007, San Jose, CA. (oral presentation). (I).
67. Hacker, M.S., Battaglia, L.L. & Gibson, D.J. 2007. Potential effects of the invasive *Celastrus orbiculatus* Thunb. on soil seedbank composition. SIUC Undergraduate Research Forum, March 26, 2007. SIUC, Carbondale, IL.(poster presentation) (L).
68. Inczauskis, J.R., Hacker, M.S., Battaglia, L.L. & Gibson, D.J. 2007. An exotic species database for determining the distribution of exotic plants in southern Illinois. Ecological Society of America, 92nd Annual Meeting, Society for Ecological Restoration 18th International Conference. August 5th – 10th, 2007, San Jose, CA. (poster presentation). (I).
69. Lambert, A.M., Baer, S.G., & Gibson, D.J. 2007. Physiology of dominant grasses in prairie restoration: the effect of population seed source on plant performance. Ecological Society of America, 92nd Annual Meeting. August 5th – 10th, 2007, San Jose, CA. (poster presentation). (I).
70. Gage, K.L., Gibson, D.J., Matthews, J.L., Young, B.G., Owen, M.D., Wilson, R.G., Weller, S.C., Johnson, W.G., Shaw, D.R., & Jordan, D.L. 2008. Ecological requirements of weed communities to glyphosate-resistant cropping systems. Weed Science Society of America annual meeting. Feb 4-6, 2008. Chicago, IL. (oral presentation). (National).
71. **Gibson, D.J.** 2008. Understanding plant competition: an ecologist throws up his hands and uses soybean and its weeds as a model system. Sigma-Xi Annual Banquet. Kaplan Award lecture. April 31st, 2008. (oral presentation). (Local).
72. Brophy, C., D.J. Gibson, & Connolly, J. 2008. Statistical issues in analyzing the relationship between reproductive output and size. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. (oral presentation). (I).
73. Gage, K.L., Gibson, D.J., Matthews, J.L., Young, B.G., Owen, M.D., Wilson, R.G., Weller, S.C., Johnson, W.G., Shaw, D.R., & Jordan, D.L. 2008. The effect of glyphosate-resistant cropping systems on management of weed species diversity and herbicide resistance. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. (oral presentation). (I).
74. Lambert, A.M., S.G. Baer, & Gibson, D.J. 2008. Intraspecific variation in physiology and productivity of dominant C₄ grass species in a prairie restoration. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. (oral presentation). (I).
75. Reed, L.K., S.G. Baer, & Gibson, D.J. 2008. Competitive equivalency of cultivar and non-cultivar dominant prairie grasses in an experimental restoration. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. (oral presentation). (I).

76. Gustafson, D.J., Major, C., Fernandez, A., Jones, D., Gibson, D.J., & Baer, S. 2008. Genetic control of grassland assembly rules: preliminary results. Sixth Eastern Native Grass Symposium, Columbia, SC. (oral presentation) (R).
77. **Gibson, D.J.** 2008. Competitive effects and responses in an agroecological setting. Southern Illinois University Edwardsville, Department of Biology seminar series. October 27th. (oral presentation) (R).
78. **Gibson, D.J.** 2008. The role of foundation species in the North American Prairie: Genetic diversity and community assembly. 2008 Outstanding Scholar Lecture, SIUC. November 7. (oral presentation) (L). Available for download at: <http://itunes.siu.edu/> .
79. Reed, L.K. S.G. Baer, & D.J. Gibson. 2008. Competitive equivalency of cultivar and non-cultivar dominant prairie grasses in an experimental restoration. ESA. <http://eco.confex.com/eco/2008/techprogram/P13667.HTM>
80. Dewey, J., & D.J. Gibson. 2009. A competition study between the rare forest grass Porter's Reed Grass *Calamagrostis porteri* ssp. *insperata* and the invasive Garlic Mustard *Alliaria petiolata*. SIUC Undergraduate Research Forum, March 23, 2009. (L)
81. Gibson, D.J., Gage, K., Matthews, J., & B.G. Young. 2009. 2006 Seed Bank: First look. Benchmark Study Group, Saint Louis. September 14, 2009. (oral). (R).
82. Gibson, D.J., L.K. Reed, & S.G. Baer. 2009. Facilitation and competition effects among cultivar and non-cultivar sources of the dominant grasses in an experimental restoration. British Ecological Society Annual Symposium. Facilitation in Plant Communities. April 2-22. Aberdeen, Scotland. (poster). (I).
83. Gage, K.L., D.J. Gibson & B. G. Young. 2009. Survival and reproduction of glyphosate-resistant (GR) and susceptible (GS) *Conyza canadensis* (L.) Cronq. (Asteraceae). ESA. <http://eco.confex.com/eco/2009/techprogram/P18473.HTM> (poster)
84. Harrison, A. A. Kaytor, K. Gage, D. Gibson, B. Young. 2009. Differences in reproduction in Glyphosate-resistant (GR) and –susceptible (GS) populations of *Conyza canadensis* L. Cronq. (Asteraceae). SIUC Undergraduate Research Forum, March 23, 2009. (L)
85. McLane, C.R., L.B. Battaglia, D.J. Gibson, & J. W. Groninger. 2009. Evaluating exotic species assemblages across a chronosequence of restored floodplain forests. Illinois Academy of Sciences. April 17-18, Edwardsville, IL. (Oral) (R).
86. McLane, C.R., L.B. Battaglia, D.J. Gibson, & J. W. Groninger. 2009. Succession of exotic species assemblages in actively restored floodplain forests. SWS.
87. Renzaglia, K.R., H. Henson, D.J. Gibson, S. Sipes, & F. Mumba. 2009. SIUC Heart GK-12 partnerships for science education. Illinois Academy of Sciences. April 17-18, Edwardsville, IL. (Oral) (R).
88. Donatelli, J.M., Gibson, D.J., Renzaglia, K., Henson, H., Mumba, F., Sipes, S., & K. Schachel. 2010. Bridging the gap, building the future: STEM fellows teaching global change in primary education. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA. (poster presentation). (I). <http://eco.confex.com/eco/2010/techprogram/P24279.HTM>
89. McElyea, M., D.J. Gibson, & M. Geisler. 2010. Competition and drought responses in switchgrass (*Panicum virgatum*). SIUC Undergraduate Research Forum, March 26, 2010. (L)
90. McElyea, M., D.J. Gibson, & M. Geisler. 2010. Competition and drought responses in switchgrass (*Panicum virgatum*). Saint Louis Area Undergraduate Research Symposium, Carbondale, IL, April 19th, 2010. (L)
91. McElyea, M., D.J. Gibson, & Evans, C. 2010. Invasive species occurrences at boot brush stations and along trails. Stiltgrass Summit, Southern Illinois University Carbondale, August 12th, 2010. (poster presentation). (N).

92. **Gibson, D.J.**, Allstadt, A., & S.G. Baer. 2010. Effects of genetic diversity of foundation species on community diversity: predictions tested by simulation modelling. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA. (poster presentation). (I).
93. Jones, D., Gustafson, D.J., Gibson, D.J., & S.G. Baer. 2010. *Chamaecrista fasciculata* and *Silphium integrifolium* show divergence in genetic structure when grown in a background of wild collected versus cultivars of the dominant grasses. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA. (poster presentation). (I).
<http://eco.confex.com/eco/2010/techprogram/P25105.HTM>.
94. McElyea, M., Gibson, D.J., & Ebbs, S. 2010. Plants and brake dust heavy metals. Center for Advanced Friction Studies, Industrial Advisory Board Meeting, SIUC. December 8, 2010. (L)
95. Schmale, G.D., Battaglia, L.L., & D.J. Gibson. 2010. Limitations of natural history data in a revisitation study of non-native invasive plants. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA. (poster presentation). (I).
96. Schmale, G.D., Battaglia, L.L., & D.J. Gibson. 2010. Limitations of natural history data in a revisitation study of non-native invasive plants. Stiltgrass Summit, Southern Illinois University Carbondale, August 12th, 2010. (poster presentation). (N).
97. Baer, S.G., D.J. Gibson, R.P. Klopff, A.M. Lambert, L.K. Reed, J.E. Willand, and B.R. Wodika. 2011. Hierarchical consequences of cultivar and local propagules on community assembly and ecosystem functioning in restoration. Ecological Society of America, 95th Annual Meeting. August 7 – 12, 2011, Austin Tx. (poster presentation). (N).
<http://esameetings.allenpress.com/2011/webprogram/Paper30224.html>
98. Donatelli, J.M., **D.J. Gibson**, S.G. Baer, and A. AbuGhazaleh. 2011. Forage quality of *Andropogon gerardii* across a precipitation gradient. Ecological Society of America, 95th Annual Meeting. August 7 – 12, 2011, Austin Tx. (poster presentation). (N).
<http://esameetings.allenpress.com/2011/webprogram/Paper31350.html>
99. Donatelli, J., Gibson, D.J., & Sendor, G. 2011. Tiller counts in the Illinois SPIP plots. Bluestem ecotype meeting, Kansas State University, Manhattan, KS, February 26th. (R).
100. **Gibson, D.J.** 2011. Use of scientific digital and social media by the BES journals. Workshop on Publishing Science in the Online Age. British Ecological Society Annual Meeting, Sept 13th, 2011. University of Sheffield, UK. (I).
101. Holzmüller, E.J., D.J. Gibson, P.F. Suhecki. 2011. Central hardwood forest composition following a super derecho storm event. Ecological Society of America, 95th Annual Meeting. August 7 – 12, 2011, Austin Tx. (poster presentation). (N).
102. Holzmüller, E.J., D.J. Gibson, P.F. Suhecki. 2011. Impact of a severe wind storm on species composition in an oak dominated forest. Society of American Foresters, National Convention, Honolulu, Hawaii August 7 – 12, 2011, Austin Tx. (poster presentation). (N).
<http://esameetings.allenpress.com/2011/webprogram/Paper29866.html>
103. McElyea, M., Gibson, D.J., Ebbs, S.E., & P. Filip. 2011. Brake dust effects on plant germination and growth. Midwest Ecology and Evolution Conference, Southern Illinois University Carbondale. April 1 – 3, 2011. (poster presentation) (R).
104. McElyea, M., Gibson, D.J., Ebbs, S.E., & P. Filip. 2011. Potential toxicity of automotive brake dust on plant growth. SIUC Undergraduate Research Forum, April 11, 2011. (poster presentation) (L).
105. Schmale, G., Battaglia, L., & D.J. Gibson. 2011. The persistence of non-native invasive plant populations as informed by natural history records. Midwest Ecology and Evolution Conference, Southern Illinois University Carbondale. April 1 – April 3, 2011. (R).

106. Schmale, G.D., L.L. Battaglia, and D.J. Gibson. 2011. Population persistence of non-native plants. Ecological Society of America, 95th Annual Meeting. August 7 – 12, 2011, Austin Tx. (oral presentation). (N). <http://esameetings.allenpress.com/2011/webprogram/Paper31102.html>
107. Schwartz, L & D.J. Gibson. 2011. The competitive response of *Panicum virgatum* cultivars to non-native invasive species in southern Illinois. Midwest Ecology and Evolution Conference, Southern Illinois University Carbondale. April 1 – April 3, 2011. (R).
108. Sendor, G., J. Donatelli, D.J. Gibson, S.G. Baer, & L. Johnson. 2011. Population variation in relative fitness of *Andropogon gerardii* (Big bluestem). SIUC Undergraduate Research Forum, April 11, 2011. (poster presentation) (L).
109. Shupert, L., M. McElyea, D.J. Gibson, S. Ebbs, and P. Filip. 2011. Effects of dissolved automotive brake dust solution on the growth and sequestration of heavy metals in *Salvinia molesta* Mitchell. SIUC Undergraduate Research Forum, April 11, 2011. (poster presentation) (L).
110. Willand, J.E., Baer, S.G., Gibson, D.J., and R.P. Klopff. 2011. Temporal change in seed and bud banks as sources of new propagules across a restoration chronosequence. Midwest Ecology and Evolution Conference, Southern Illinois University Carbondale. April 1 – April 3, 2011. (R).
111. Willand, J.E., S.G. Baer, D.J. Gibson, and R.P. Klopff. 2011. Temporal changes in seed and bud banks as sources of new propagules during prairie restoration. Ecological Society of America, 95th Annual Meeting. August 7 – 12, 2011, Austin Tx. (oral presentation). (N). <http://esameetings.allenpress.com/2011/webprogram/Paper30177.html>
112. Gustafson, D. J., J. Synovec, D. Jones, C. Major, D.J. Gibson, and S.G. Baer. 2012. *Chamaecrista fasciculata*, *Silphium integrifolium*, and *Sorghastrum nutans* show divergence in genetic structure when grown in a background of wild collected versus cultivars of the dominant grasses. Association of Southeastern Biologists.
113. Goad, R.K., S.G. Baer, B. Klubek, and D.J. Gibson. 2012. A test of local adaptation to soil microbial communities in tallgrass prairie plant assemblages. Ecological Society of America, 96th Annual Meeting. August 5 – 10, 2012, Portland, Or. (oral presentation). (N). <http://eco.confex.com/eco/2012/webprogram/Paper37384.html>
114. **Gibson, D.J.**, K.L. Gage, J.L. Matthews, B.G. Young, M.D.K. Owen, R.G. Wilson, S.C. Weller, D.R. Shaw, and D.L. Jordan. 2012. The effect of weed management practices on weed species communities over 5 years in Glyphosate-resistant cropping systems. Ecological Society of America, 96th Annual Meeting. August 5 – 10, 2012, Portland, Or. (poster presentation). (N). <http://eco.confex.com/eco/2012/webprogram/Paper35701.html> .
115. Neal, T. & Gibson, D.J. 2012. Competition study of *Achyranthes japonica* (Miq.) Nakai and *Microstegium vimineum* (Trin.) A. Camus. SIUC Undergraduate Research Forum, April 16, 2012. (poster presentation). (L) 2012 Abstract Book: https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=1004&context=curca_forum
116. Shupert, L. & Gibson, D.J. 2012. Reproductive potential of *Achyranthes japonica* (Miq.) Nakai (Japanese Chaff flower). SIUC Undergraduate Research Forum, April 16, 2012. (poster presentation). (L).
117. Baer, S.G., Maricle, B.R., Bello, N.M., Caudle, K.L., Galliard, M., Gibson, D.J., Gray, M., Goad, R.K., McCrae, E., Mendola, M.L., Olsen, J.T., Sebates, S., Tetreault, H., Wilson, L., and L.C. Johnson. 2013. Discerning the presence and ecological consequence of ecotypic variation: A dilemma for restoration. Society for Ecological Restoration World Conference, Madison, Wisconsin.
118. Jesselson, S. & D.J. Gibson. 2013. Studying the effect of activated carbon on Japanese chaff flower (*Achyranthes japonica* (Miq.) Nakai) and Japanese stiltgrass (*Microstegium japonicum* (Trin.) A. Camus) seedlings. SIUC Undergraduate Research Forum, April 8, 2013. (poster presentation). (L).

119. Willand, J.E., S.G. Baer, and D.J. Gibson. 2013. The influence of population sources and species pools on propagule supply in an experimental grassland. Annual Meetings of the Ecological Society of America. August 4-9, Minneapolis, Minnesota.
120. Wilson, L., D.J. Gibson, S.G. Baer, and L. Johnson. 2013. Plant community response to regional sources of dominant grasses restored across a precipitation gradient. Annual Meetings of the Ecological Society of America. August 4-9, Minneapolis, Minnesota. (N).
121. Sebates, S., Galliard, M., Baer, S.G., Bello, N.M., Caudle, K.L., Maricle, B.R., McCrae, E., Gibson, D.J., Wilson, L., and L.C. Johnson. 2013. How does phenology and seed production of big bluestem (*Andropogon gerardii*) vary across the climate gradient of the Great Plains? A reciprocal garden approach to distinguishing roles of site and ecotype. Botanical Society of America Annual Meeting. July 27 – August 1, New Orleans, Louisiana. (N).
122. Bergman, A., S. Ebbs, D.J. Gibson, & K. Renzaglia. 2014. Does the exotic invasive Japanese chaff flower have root mycorrhizae? SIUC Undergraduate Research Forum, April 7, 2014. (poster presentation). (L). 2014 Abstract Book https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=1002&context=curca_forum
123. Flowers, N.D., & D.J. Gibson. 2014. The effects of light pollution on *Achyranthes japonica* (Miq.) Nakai seedlings. SIUC Undergraduate Research Forum, April 7, 2014. (poster presentation). (L). 2014 Abstract Book https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=1002&context=curca_forum
124. Galliard, M., L. Johnson, S. Sabates, H. Tetreault, A. DeLaCruz, J. Bryant, T.J. Morgan, M.Knapp, N.M. Bello, S.G. Baer, D. Gibson, L. Wilson, B.R. Maricle. 2014. Adaptive potential and trait variation of a widespread grass *Andropogon gerardii* across Great Plains climate gradient: implications of climate change. Kansas Academy of Science, April 4th.
125. Jesselson, S., & D.J. Gibson. 2014. A study of the persistent allelopathic potential of Japanese chaff flower *Achyranthes japonica* (Miq.) Nakai. SIUC Undergraduate Research Forum, April 7, 2014. (poster presentation). (L). 2014 Abstract Book https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=1002&context=curca_forum
126. Khalil, M.I., D.J. Gibson, & S.G. Baer. 2014. Effect of dominant species on community phylogenetic structure in a grassland restoration. Annual Meetings of the Ecological Society of America. August 10-15, Sacramento, California (poster presentation). (N). <http://eco.confex.com/eco/2014/webprogram/Paper47633.html> .
127. Matschke, L., T. Neal, & D.J. Gibson. 2014. Is a native fungus a viable biocontrol for the invasive species *Microstegium vimineum*? SIUC Undergraduate Research Forum, April 7, 2014. (poster presentation). (L). 2014 Abstract Book https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=1002&context=curca_forum
128. Neal, T. & D.J. Gibson. 2014. Dispersal and seed vector transport of *Achyranthes japonica* (Miq.) Nakai. 19th Central Hardwood Forest Conference, Southern Illinois University Carbondale. March 12, 2014. (R).
129. Palm, D. M. Geisler, J. Geisler-Lee, & D.J. Gibson. 2014. How aboveground shoots behave in intraspecific competition. SIUC Undergraduate Research Forum, April 7, 2014. (poster presentation). (L).
130. Schwartz, L.M., D.J. Gibson, & B.G. Young. 2014. The applicability of Tilman's resource-ratio hypothesis to four Amaranthaceae species. 19th Central Hardwood Forest Conference, Southern Illinois University Carbondale. March 12, 2014. (poster presentation). (R).
131. Flowers, N., & D.J. Gibson. 2015. Light-pollution and competition affect phenotypic variation in four grasses. SIUC Undergraduate Research Forum, April 6, 2015. (poster presentation). (L).
132. Gage, K.L. Evans, C.W., Flynn, E.S. Gibson, D.J. 2015. Rate limitation and efficacy trials for low-volume basal bark treatments of *Celastrus orbiculatus* and *Lonicera maackii* with aminopyralid and triclopyr. 70th Annual Meeting North Central Weed Science Society www.ncwss.org Midwest Invasive

- Plant Network Symposium December 7 - 10, 2015 Hyatt Regency Indianapolis, IN.
<http://ncwss.org/wp-content/uploads/2015/03/2015-NCWSS-program-book-v5-final.pdf>. (R).
133. Gibson, D.J. 2015. Forensic botany CSI: plants. Sierra Club, Shawnee Group. October 8th. Carbondale, IL (L).
 134. Gibson, D.J., Raveendiran, J., Higgins, R., Lui, X., Geisler, M., Geisler-Lee, J. 2015. Detecting the early onset of intraspecific competition through root visualization. Ecological Society of America Annual Meeting. August 11th. Baltimore Convention Center, Baltimore, MD.
<https://eco.confex.com/eco/2015/webprogram/Paper53012.html> (N).
 135. Gibson, D.J., Neal, T., Schwartz, L. 2015. *Achyranthes japonica*: A Growing Threat. 70th Annual Meeting North Central Weed Science Society [www.ncwss.org](http://ncwss.org) Midwest Invasive Plant Network Symposium December 7 - 10, 2015 Hyatt Regency Indianapolis, IN. <http://ncwss.org/wp-content/uploads/2015/03/2015-NCWSS-program-book-v5-final.pdf>. (R).
 136. Kays, J., Palm, D., Higgins, R., Geisler, M., Gibson, D.J., Cheng, Q., & J. Geisler-Lee. 2015. Belowground competition with kin and non-kin in *Arabidopsis*. SIUC Undergraduate Research Forum, April 6, 2015. (poster presentation). (L).
 137. Matschke, L., T. Neal, & D.J. Gibson. 2015. Does the invasive species *Achyranthes japonica* form a mutualistic relationship with mycorrhizal fungus? SIUC Undergraduate Research Forum, April 6, 2015. (poster presentation). (L).
 138. Frailey, A., T. Neal, E. Medvecz, & D.J. Gibson. 2016. Exploring allelopathic effects of two invasive species on seed germination. SIUC Undergraduate Research Forum, April 4, 2016. (poster presentation). (L). *1st Prize winner. 2016 Abstract Book:
https://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=1000&context=curca_forum
 139. Gibson, D.J. 2016. Should we use wild-collected ecotypes or cultivars for prairie restoration? An experimental test. Illinois Indigenous Plants Symposium. April 2nd. John A. Logan Community College, Carterville, IL. <http://www.slideshare.net/DavidGibson79/shoulds-we-use-wildcollected-ecotype-or-cultivars-for-prairie-restoration-an-experimental-test>. (R).
 140. Khalil, M.I., D.J. Gibson, S.G. Baer, & J.E. Willand. 2016. Effect of intraspecific genetic variation on community phylogenetic and functional diversity in a grassland restoration. SIUC Graduate Research Forum, April 5, 2016. (poster presentation). (L).
 141. Lui, X., D.J. Gibson, & G. Wang. 2016. Evaluating maximum entropy model fit in predicting invasive plant species occurrences in southern Illinois and adjacent counties. SIUC Graduate Research Forum, April 5, 2016. (poster presentation). (L).
 142. Neal, T. & D.J. Gibson. 2016. Comparison of population of *Achyranthes japonica* (Miq.) Nakai in the Ohio river valley. SIUC Graduate Research Forum, April 5, 2016. (poster presentation). (L). *1st Prize winner, Biological Sciences division.
 143. Rumpa, M.M., D.J. Gibson, & K.L. Gage. 2016. Does exposure to PPO-inhibiting herbicides alter the male-to-female sex ratio of Palmer amaranth (*Amaranthus palmeri*)? SIUC Graduate Research Forum, April 5, 2016. (poster presentation). (L).
 144. **Gibson, D.J.**, Young, B.G., Matthews, J., Franca, L., Schwartz, L.M., Johnson, W.G., Spaunhorst, D.J., Smeda, R.J., Martin, H.R., Norsworthy, J.K., & Steckel, L. (2016). Disturbance and the timing of seedling emergence: *Amaranthus palmeri* across five US States. Ecological Society of America Annual Meeting. August 9th, Fort Lauderdale, FL.
<https://eco.confex.com/eco/2016/webprogram/Paper59846.html>.
 145. Khalil, M. & D.J. Gibson. 2016. Effects of intraspecific genetic variation on community phylogenetic and functional diversity in a grassland restoration. SIUC Natural Sciences Research Symposium. October 20, 2016. (poster presentation) (L).

146. Lui, X., D.J. Gibson, & G. Wang. 2016. Evaluating maximum entropy model fit and predicting invasive plant species occurrence in southern Illinois and adjacent counties. SIUC Natural Sciences Research Symposium. October 20, 2016. (poster presentation) (L).
147. Neal, T. & D.J. Gibson. 2016. Invader on the rise: Japanese chaff flower. SIUC Natural Sciences Research Symposium. October 20, 2016. (poster presentation) (L).
148. Rumpa, M.M., D.J. Gibson, & K.L. Gage. 2016. Effect of PPO-inhibiting herbicides on growth and sex ratios of *Amaranthus palmeri* (Palmer amaranth) populations. SIUC Natural Sciences Research Symposium. October 20, 2016. (poster presentation) (L).
149. **Gibson, D.J.** 2017. Ecology of Japanese Chaff Flower and Research Update. River to River Cooperative Weed Management Area, Ecology and Control of Japanese Chaff Flower – Program and Field Tour. June 22nd, Barkhausen-Cache River Wetlands Center, Cypress, IL. (oral presentation). (R). Slides at: https://figshare.com/articles/Ecology_of_Japanese_Chaff_Flower_and_Research_Update/5132695
150. **Gibson, D.J.**, T.Neal, S.G. Bear, & L. Johnson. 2017. What are ecotypes adapted to? Insights from common garden experiments across geographic gradients. Presentation from Ecological Society of America Annual Meeting Aug 9th, 2017, Portland, Oregon. This presentation was in the IGNITE format and part of a session "*Multiple Common Garden Experiments for Meeting Restoration Challenges: Difficulties and Potential Challenges.*" Slides at: <https://doi.org/10.6084/m9.figshare.5276863.v1>
151. **Gibson, D.J.** 2017. Population Biology. Hierarchy of hypotheses workshop, Schloss Herrenhausen, Hannover, Germany, July 19-21. (oral presentation). (I). Slides at: https://figshare.com/articles/Hierarchy_of_Hypotheses_Presentation/5212093.
152. **Gibson, D.J.** 2017. Forensic Botany. Southern Illinois Learning in Retirement meeting. Dunn-Richmond Center, SIUC. November 15, 2017. Slides at: https://figshare.com/articles/Forensic_Botany/5605624
153. Geisler-Lee, J., Xian, L., Rang, W., Raveendiran, J., Szubryt, M.B., Gibson, D.J., Geisler, M., & Cheng, Q. 2017. Image-based analysis to dissect vertical distribution and horizontal asymmetry of conspecific root system interactions in response to planting densities, nutrients and root exudates in *Arabidopsis thaliana*. American Society of Plant Biologists, Plant Biology Annual Meeting, Montreal, Canada, July 2018 (I).
154. **Gibson, D.J.** (2018): Grassland communities of barrens and hill prairies. Presentation given at the Illinois Indigenous Plant Symposium, April 14th, 2018 at John A. Logan College, IL. (R).
155. **Gibson, D.J.** (2018). Forensic Botany. Carbondale Rotary Club, Carbondale IL, November 27th, 2018. (L).
156. **Gibson, D.J.** (2020). The Role of Research Institutions. Illinois Invasive Species Forum. December 8, 2020. figshare. Presentation. <https://doi.org/10.6084/m9.figshare.13349939.v1> (R).
157. Ren, Z., Gibson, D.J., Baer, S.G., Johnson, L.C., & Wilson, L.R. (2020). Grassland restoration reveals the importance of ecotypic variation on community assembly along a longitudinal aridity gradient. British Ecological Society, Festival of Ecology. Dec 14-18, 2020. Poster (I).
158. Lopez, R., F. Hudgens, R. Welsh, **D.J. Gibson**, & K. Renzaglia. 2021. Teacher training and authentic research experiences improve STEM learning while strengthening teacher identity as practicing scientists. Midwet Noyce Poster Session. 21st Midwest Annual Robert Noyce Teacher Conference, Feb 5-11, 2021. Virtual Meeting. Poster (R).
159. **Gibson, D.J.** 2021. Japanese Chaff flower populations grow fast and are maybe evolving. Chaff Flower Summit. University of Illinois Extension. Aug 21 2021. <https://doi.org/10.6084/m9.figshare.15157989.v1> (R).

160. Ekmekci, A., Aqazade, M., Callard, C., Catanese, J., Cerosaletti, C., Daley, M., Gibson, D., Harel, G., Head, M., McGraw, R., Orcan, B., Papkonstantinou, A., Reid, J., Renzaglia, K., Rushton, G., Sheppard, P., Soto, G. 2022. Teacher retention: the role of self-efficacy, leadership, and social network. Western Regional Noyce Conference, Cave City, Tn., Poster (R.).
161. **Gibson, D.J.**, Barfknecht, D., Baser, S.G., Galliard, M., Howe, K., Ren, Z., Sytsma, J., & L. Johnson. 2022. Diversity-biomass relationships are dependent upon location and dominant species ecotypes. Ecological Society of America Annual Meeting, Montreal, Canada. Aug 14-19. Contributed talk. <https://doi.org/10.6084/m9.figshare.20498985.v1> (It).

Publications: Books.

1. **Gibson, D.J.** 2002. *Methods in Comparative Plant Population Ecology*. Oxford University Press, Oxford, UK. 352pp. ISBN 0-19-850562-0.
2. **Gibson, D.J.** 2009 (appeared 2008). *Grasses and Grassland Ecology*. Oxford University Press, Oxford, UK. 305pp. ISBN 0-19-852918-7. Chinese language edition published by Higher Education Press, 2018 (<http://www.hep.com.cn/book/details?uuid=9f589a06-14a7-1000-b0d6-3fafc67de19c>).
3. **Gibson, D.J.** 2015 (appeared 2014). *Methods in Comparative Plant Population Ecology, 2nd edition*. Oxford University Press, Oxford, UK. 298pp. ISBN 978-0-19-967146-5 (hbk.).
4. **Gibson, D.J.**, & J.A. Newman (eds). (2019). *Grasslands and Climate Change*. British Ecological Society, Ecological Reviews series. Cambridge University Press, UK. 346 pp. ISBN 978-1-31-6646779.
5. **Gibson, D.J.** 2022. *Planting Clues: How Plants Solve Crimes*. Oxford University Press, Oxford, UK. ISBN 978-0-19-886860-6. Italian translation 2023 *Cleudo Botanico* Il Saggiatore, Polish translation 2023 *Dwody Zbrodni* Copernicus Center Press.
6. **Gibson, D.J.** 2025. *Elite Memories*. Independently Published. ISBN: 979-8-9988560-0-6 (Paperback) ISBN: 979-8-9988560-1-3 (Digital).
7. **Gibson, D.J.** Shanya's Saga. Independently Published. ISBN: (Paperback) ISBN: (Digital).
8. Hager, H.A., **Gibson, D.J.**, & J.A. Newman (eds). 2026, In Press. *Routledge Handbook of Grasslands*. Routledge, London, UK. 648pp. ISBN: 978-1032491752.

Publications (peer-reviewed):

1. **Gibson, D.J.** 1982. The natural revegetation of lead/zinc mine spoil in northeastern Oklahoma. *Southwestern Naturalist*, 27:425-436.
2. **Gibson, D.J.** & Risser, P.G. 1982. Evidence for the absence of ecotypic differentiation in *Andropogon virginicus* L. on metalliferous mine wastes. *New Phytologist*, 92:589-599.
3. Johnson, F.L., **Gibson, D.J.** Risser, P.G. 1982. Revegetation of unreclaimed coal strip mines in Oklahoma. 1: Vegetation structure and soil properties. *Journal of Applied Ecology*, 19: 453-463.
4. **Gibson, D.J.**, Colquhoun, I.A., & Greig-Smith, P. 1985. A new method for measuring nutrient supply rates in soils using ion-exchange resins. In: *Ecological Interactions in Soil: Plants, Microbes and Animals*, pp. 73-79 (Ed. by A.H. Fitter, D. Atkinson, D.J. Read & M.B. Usher). Blackwell Scientific Publications, Oxford.
5. **Gibson, D.J.**, Johnson, F.L., & Risser, P.G. 1985. Revegetation of unreclaimed coal strip mines in Oklahoma. II. Plant communities. *Reclamation and Revegetation Research*, 4:31-47.
6. **Gibson, D.J.** 1986. Spatial and temporal heterogeneity in soil nutrient supply measured using in-situ ion-exchange resin bags. *Plant & Soil*, 96: 445-450.

7. **Gibson, D.J.** & Good, R.E. 1986. Population structure and thinning in natural stands of Atlantic White Cedar (*Chamaecyparis thyoides* (L.) BSP). *Oecologia*, 69:348-353.
8. **Gibson, D.J.** & Greig-Smith, P. 1986. Community pattern analysis: A method for quantifying community mosaic structure. *Vegetatio*, 66:41-47.
9. **Gibson, D.J.**, & Good, R.E. 1987. The seedling habitat of *Pinus echinata* Mill. and *Melampyrum lineare* Dres. in oak-pine forest of the New Jersey Pinelands. *Oikos*, 49:91-100.
10. Freeman, C.C. & **Gibson, D.J.** 1987. Additions to the vascular flora of Konza Prairie Research Natural Area, Kansas. *Transactions of the Kansas Academy of Science*, 90:81-84.
11. **Gibson, D.J.** & Hulbert, L.C. 1987. Effects of fire, topography and year-to-year climatic variation on species composition in tallgrass prairie. *Vegetatio*, 72:175-185.
12. **Gibson, D.J.** 1988. The relationship of sheep grazing and soil heterogeneity to plant spatial patterns in dune grassland. *Journal of Ecology*, 76:233-252.
13. **Gibson, D.J.** 1988. The maintenance of plant and soil heterogeneity in dune grassland. *Journal of Ecology*, 76:497-508.
14. **Gibson, D.J.** 1988. Regeneration and fluctuation of tallgrass prairie vegetation in response to fire frequency. *Bulletin of the Torrey Botanical Club*, 115:1-12.
15. **Gibson, D.J.** & Hetrick, B.A.D. 1988. Topographic and fire effects on endomycorrhizae species composition on tallgrass prairie. *Mycologia*, 80:433-451.
16. **Gibson, D.J.**, Collins, S.L., & Good, R.E. 1988. Ecosystem fragmentation of oak-pine forest in the New Jersey Pinelands. *Forest Ecology and Management*, 25:105-122.
17. **Gibson, D.J.** 1989. Small-scale animal disturbance effects on tallgrass prairie. *American Midland Naturalist*, 121:144-154.
18. Briggs, J.M., Seastedt, R.T. & **Gibson, D.J.** 1989. Comparative analysis of temporal and spatial variability in above-ground production in a Kansas forest and prairie. *Holarctic Ecology*, 12:130-136.
19. Evans, E.W., Briggs, J.M., Finck, E.J., **Gibson, D.J.**, Kaufman, D.W., & Seastedt, T.R. 1989. Is fire a disturbance in grasslands? In: *Prairie Pioneers: Ecology, History and Culture* (Ed. by T.B. Bragg & J. Stubbendieck). Proc. Eleventh North American Prairie Conference, 1988, pp159-161.
20. **Gibson, D.J.** 1989. Hulbert's study of factors effecting botanical composition of tallgrass prairie. In: *Prairie Pioneers: Ecology, History and Culture* (Ed. by T.B. Bragg & J. Stubbendieck). Proc. Eleventh North American Prairie Conference, 1988, pp115-133.
21. Collins, S.L. & **Gibson, D.J.** 1990. Effects of fire on plant community structure in tallgrass prairie. In: *Effects of Fire on Tallgrass Prairie Ecosystems* (Ed. by S.L. Collins & L.L. Wallace). Univ. of Oklahoma Press, Norman, Oklahoma, pp. 81-98.
22. **Gibson, D.J.**, Freeman, C.C., & Hulbert, L.C. 1990. The effects of small mammal and invertebrate herbivory on plant species richness and abundance in tallgrass prairie. *Oecologia*, 84:169-175.
23. **Gibson, D.J.**, Hartnett, D.C., & Merrill, G.L.S. 1990. Fire temperature heterogeneity in contrasting fire prone habitats: Kansas tallgrass prairie and Florida sandhill. *Bulletin of the Torrey Botanical Club*, 117:349-356.
24. Schaeffer, D.J., Seastedt, T.R., **Gibson, D.J.**, Hartnett, D.C., Hetrick, B.A.D., James, S.W., Kaufman, D.W., Schwab, A.P., Herricks, E.E., & Novak, E.W. 1990. Field bioassessments for selecting test systems to evaluate military training lands in a tallgrass prairie. Ecosystem Health V. *Environmental Management*, 14:81-93.
25. Abrams, M.D. & **Gibson, D.J.** 1991. Effects of fire exclusion on tallgrass prairie and gallery forest communities in eastern Kansas. In: *Fire and the Environment: Ecological and Cultural Perspectives* (Ed. by S.C. Nodvin & T.A. Waldrop). US Department of Agriculture, Forest Service, Southeastern Forest Experiment Station, Asheville, NC. Gen Tech Report SE-69. pp. 3-9.

26. Mushinsky, H.R., & **Gibson, D.J.** 1991. The influence of fire periodicity on habitat structure. In: *Habitat Complexity: The Physical Arrangement of Objects in Space* (Ed. by S.S. Bell, E.D. McCoy, & H.R. Mushinsky). Chapman & Hall, pp. 237-259.
27. Seastedt, T.R., Briggs, J.M. & **Gibson, D.J.** 1991. Controls of nitrogen limitation in tallgrass prairie. *Oecologia*, 87:72-79.
28. Briggs, J.M. & **Gibson, D.J.** 1992. Effects of fire on tree spatial patterns in a tallgrass prairie landscape. *Bulletin of the Torrey Botanical Club*, 119:300-307.
29. **Gibson, D.J.** 1992. Vegetation-environment relationships in a Southern mixed hardwood forest. *Castanea*, 57: 174-189.
30. **Gibson, D.J.** & Looney, P.B. 1992. Seasonal variation in vegetation classification on Perdido Key, a barrier island off the coast of the Florida panhandle. *Journal of Coastal Research*, 8:943-956.
31. Glenn, S.M., Collins, S.L., & **Gibson, D.J.** 1992. Disturbances in tallgrass prairie: local versus regional effects on community heterogeneity. *Landscape Ecology*, 7:243-252.
32. **Gibson, D.J.**, & Gibson, L.S. 1993. College students' perceptions on adequacy of high school science curriculum as preparation for college-level biology. *American Biology Teacher*, 55:8-12.
33. **Gibson, D.J.**, Seastedt, T.R., & Briggs, J.M. 1993. Management practices in tallgrass prairie: large- and small-scale experimental effects on species composition. *Journal of Applied Ecology*, 30: 247-255.
34. Hartnett, D.C., Hetrick, B.A.D., Wilson, G.W.T., & **Gibson, D.J.** 1993. Mycorrhizal influence on intra- and interspecific neighbor interactions among co-occurring prairie grasses. *Journal of Ecology*, 81: 787-795.
35. Looney, P.B., & **Gibson, D.J.** 1993. Vegetation monitoring of beach nourishment. In: *Beach Nourishment Engineering and Management Considerations* (Ed. by D.K. Stauble & N.C. Kraus). Coastlines of the World, American Society of Civil Engineers, New York, NY. p226-241.
36. Looney, P.B., **Gibson, D.J.**, Blyth, A.M., & Cousens, M.I. 1993. Flora of Gulf Islands National Seashore, Perdido Key. *Bulletin of the Torrey Botanical Club*, 120: 327-342.
37. Matlack, G.R., **Gibson, D.J.**, & Good, R.E. 1993. Clonal propagation, local disturbance, and the structure of vegetation: Ericaceous shrubs in the Pine Barrens of New Jersey. *Biological Conservation*, 63:1-8.
38. Matlack, G.R., **Gibson, D.J.**, & Good, R.E. 1993. Regeneration of the shrub *Gaylussacia baccata* and associated species after a low-intensity ground fire in an Atlantic coastal plain forest. *American Journal of Botany*, 80: 119-126.
39. Bittner, R.T., **Gibson, D.J.**, McCall, R.K., & A.K. West. 1994. Vegetation analysis of a southern Illinois shale barrens restoration. *Proceedings of the North American Conference on Savannas and Barrens*. Ed. by J.S. Fralish, R.C. Anderson, J.E. Ebinger, & R. Szafoni. Environmental Protection Agency, Great Lakes National Program Office. pp 287-294.
40. Bittner, R.T., **Gibson, D.J.**, & A.K. West. 1994. Shale barrens community restoration underway at Brown Barrens Nature Preserve (Illinois). *Restoration & Management Notes*, 12: 84-85.
41. **Gibson, D.J.**, & Looney, P.B. 1994. Vegetation colonization of dredge spoil on Perdido Key, Florida. *Journal of Coastal Research*, 10: 133-134.
42. **Gibson, D.J.**, & Menges, E.S. 1994. Population structure and spatial pattern in the dioecious shrub, *Ceratiola ericoides*. *Journal of Vegetation Science*, 5: 337-346.
43. Hetrick, B.A.D., Hartnett, D.C., Wilson, G.W.T. & **Gibson, D.J.** 1994. Effects of mycorrhizae, phosphorus availability, and plant density on yield relationships among competing tallgrass prairie grasses. *Can. J. Bot.*, 72:168-76.
44. Collins, S.L., Glenn, S.M., & **Gibson, D.J.** 1995. Experimental analysis of intermediate disturbance and initial floristic composition: decoupling cause and effect. *Ecology*, 76:486-492.

45. Franklin, S.B., **Gibson, D.J.**, Robertson, P.A., Pohlmann, J.T. & Fralish, J.S. 1995. Parallel Analysis: a method for determining significant principal components. *Journal of Vegetation Science*, 6: 99-106.
46. **Gibson, D.J.**, Ely, J.S., Looney, P.B., & Gibson, P.T. 1995. Effects of inundation from the storm surge of Hurricane Andrew upon primary succession on dredge spoil. *Journal of Coastal Research Special Issue* 21: 208-216.
47. **Gibson, D.J.** & Towne, G. 1995. Dynamics of big bluestem (*Andropogon gerardii*) in ungrazed Kansas tallgrass prairie. *Proceedings of the 14th North American Prairie Conference*, D.C. Hartnett (ed.), p 9 - 15.
48. Looney, P.B., & **Gibson, D.J.** 1995. The relationship between the soil seed bank and aboveground vegetation of a coastal barrier island. *Journal of Vegetation Science*, 6: 825-836.
49. **Gibson, D.J.** 1996. Textbook misconceptions: The climax concept of succession. *American Biology Teacher*, 58: 135-141.
50. **Gibson, D.J.** 1996. Where do non-majors find environmental science articles? *American Biology Teacher*, 58: 212-216.
51. **Gibson, D.J.**, Seastedt, T.R., & Briggs, J.M. 1996. Management practices in tallgrass prairie: large- and small-scale experimental effects on species composition. *Journal of Applied Ecology*, 30: 247-255. *Reprinted In: F.B. Sampson & F. Knopf, Readings in Ecosystem Management*. Springer-Verlag. pp106-115.
52. **Gibson, D.J.**, & Skeel, V.A. 1996. Effects of competition on photosynthetic rate and stomatal conductance of *Sorghastrum nutans* (L.) Nash. *Photosynthetica*, 32: 503-512.
53. Skeel, V.A., & **Gibson, D.J.** 1996. Physiological performance of *Andropogon gerardii*, *Panicum virgatum*, and *Sorghastrum nutans* on reclaimed mine spoil. *Restoration Ecology*, 4: 355-367.
54. **Gibson, D.J.**, Ely, J.S., & Looney, P.B. 1997. A Markovian approach to modeling succession on a coastal barrier island following beach nourishment. *Journal of Coastal Research*, 13: 831-841.
55. Bittner, R.T., & **Gibson, D.J.** 1998. Microhabitat relations of the rare reed bent grass, *Calamagrostis porteri* subsp. *insperata* (Poaceae), with implications for its conservation. *Annals of the Missouri Botanical Garden*, 85: 69-80.
56. Campbell, J.E., Franklin, S.B., **Gibson, D.J.**, & Newman, J.A. 1998. Permutation of two-term local quadrat variance analysis: General concepts for interpretation of peaks. *Journal of Vegetation Science*, 9: 41-44.
57. Skeel, V.A., & **Gibson, D.J.** 1998. Photosynthetic rates and vegetative production of *Sorghastrum nutans* in response to competition at two strip mines and a railroad prairie. *Photosynthetica*, 35:139-149.
58. Rice, M.R., Middleton, B.A., & **Gibson, D.J.** 1998. Fractal analysis of movement pathways of earthworms in vegetated versus unvegetated areas. *Bios*, 69: 176-184.
59. Applebee, T.A., **Gibson, D.J.**, & Newman, J.A. 1999. Elevated atmospheric CO₂ alters the effects of allelochemicals produced by tall fescue on alfalfa seedlings. *Transactions of the Illinois State Academy of Science*, 92: 23-31.
60. **Gibson, D.J.**, Connolly, J., Hartnett, D.C., & Weidenhammer, J. 1999. Designs for greenhouse studies of interactions between plants. *Journal of Ecology*, 87: 1-16.
61. **Gibson, D.J.**, Ely, J.S., & Collins, S.L. 1999. The core-satellite species hypothesis provides a theoretical basis for Grime's classification of dominant, subordinate, and transient species. *Journal of Ecology*, 87: 1064-1067.
62. **Gibson, D.J.**, Middleton, B.A., Saunders, G.W., Mathis, M., Weaver, W.T., Neely, J., Rivera, J., & Oyler, L.M. 1999. Learning ecology by doing ecology: Long-term field experiments in succession. *American Biology Teacher*, 61: 217-222.

63. **Gibson, D.J.**, Zampella, R.A., & Windisch, A.G. 1999. New Jersey Pine Plains: The “True Barrens” of the New Jersey Pine Barrens. Chapter 4 In: R.C. Anderson, J.S. Fralish, & J. Baskin, *The Savannas, Barrens, and Rock Outcrop Plant Communities of North America*. Cambridge University Press. Pp. 52-66.
64. Gustafson, D.J., **Gibson, D.J.**, & Nickrent, D.L. 1999. Random amplified polymorphic DNA variation among remnant big bluestem (*Andropogon gerardii* Vitman) populations from Arkansas’ Grand Prairie. *Molecular Ecology*, 8: 1693-1701.
65. McCall, R.K., & **Gibson, D.J.** 1999. The regeneration potential of a threatened southern Illinois shale barren. *Journal of the Torrey Botanical Society*, 126:226-233.
66. Newman, J.A., **Gibson, D.J.**, Hickam, E., Lorenz, M., Adams, E., Bybee, L. & Thompson, R. 1999. Elevated carbon dioxide results in smaller populations of the bird cherry-oat aphid *Rhopalosiphum padi*. *Ecological Entomology*: 24: 486-489.
67. Oyler, M., Rivera, J., Roffel, M., **Gibson, D.J.**, Middleton, B.A. & Mathis, M. 1999. The macaroni lab: A directed inquiry project on predator-prey relationships. *American Biology Teacher*, 61: 39-41.
68. **Gibson, D.J.**, Adams, E.D., Ely, J.S., Gustafson, D.J., McEwen, D., & Evans, T.R. 2000. Eighteen years of herbaceous layer recovery of a recreation area in a mesic forest. *Journal of the Torrey Botanical Society*, 127: 230-239.
69. Campbell, J.E., & **Gibson, D.J.** 2001. Seed dispersal of exotic species by horses in forests. *Plant Ecology*, 157: 23-35.
70. **Gibson, D.J.** 2001. Obituary: Eric Vernon Watson B.Sc., Ph.D. (1914–1999). *The Bryologist*, 104: 471-472.
71. **Gibson, D.J.**, & Newman, J.A. 2001. Biological Flora of the British Isles: *Festuca arundinacea* Schreber (*F. elatior* subsp. *arundinacea* (Schreber) Hackel). *Journal of Ecology*, 89: 304-324.
72. Pfeiffer, T.L., Cho, Y., **Gibson, D.J.**, Young, B.A., & Wood, A.J. 2001. Utility of trigonelline as a biochemical marker for interspecific competition between soybean and the weed Common Waterhemp. *Biologia Plantarum*, 44: 619-622 .
73. Spyreas, G., **Gibson, D.J.**, & Basinger, M. 2001. Endophyte infection levels of native and naturalized Fescues in Illinois and England. *Journal of the Torrey Botanical Society*, 128: 25-34.
74. Spyreas, G., **Gibson, D.J.**, & Middleton, B.A. 2001. Effects of endophyte infection in tall fescue (*Festuca arundinacea*; Poaceae) on community development. *International Journal of Plant Sciences*, 162:1237-1245.
75. Gustafson, D.J., **Gibson, D.J.**, & Nickrent, D.L. 2001. Characterizing three restored *Andropogon gerardii* Vitman (big bluestem) populations established with Illinois and non-Illinois seed: established plants and their offspring. Proceedings of the 17th North American Prairie Conference. Seeds for the Future; Roots of the Past. Neil P. Bernstein and Laura J. Ostrander (eds.). North Iowa Area Community College, Mason City, Iowa. p.118-127.
76. **Gibson, D.J.**, Spyreas, G., & Benedict, J. 2002. Life history of *Microstegium vimineum* (Poaceae), an invasive grass in southern Illinois. *Journal of the Torrey Botanical Society*, 129, 207-219.
77. Gustafson, D.J., **Gibson, D.J.**, & Nickrent, D.L. 2002. Genetic diversity and competitive abilities of *Dalea purpurea* (Fabaceae) from remnant and restored grasslands. *International Journal of Plant Sciences*, 163: 979-990.
78. **Gibson, D.J.**, & Taylor, I. 2003. Performance of *Festuca arundinacea* Schreb. (Poaceae) populations in England. *Watsonia*, 24: 413-426.
79. Newman, J.A., Abner, M.L., Dado, R.G., **Gibson, D.J.**, Hickman, A., & Parsons, A.J. 2003. Effects of elevated CO₂: Nitrogen and fungal endophyte infection on tall fescue: growth, photosynthesis, chemical composition and digestibility. *Global Change Biology*, 9: 425-437.

80. Newman, J.A., **Gibson, D.J.**, Parsons, A.J., Thornley, A.J.M. 2003. How predictable are aphid population responses to elevated CO₂? *Journal of Animal Ecology*, 72: 556-566.
81. Barko, V.A., Burke, B.A., **Gibson, D.J.**, & Middleton, B.A. 2004. Seedling Growth of Wisconsin Fast Plants (*Brassica rapa*) in Field Environments. <https://tiee.esa.org/vol/v1/experiments/fastplants/fastplants.html> In: *Teaching Issues and Experiments in Ecology, Volume I*, January 2004. (C. D'Avanzo & B.W. Grant, editors). ESA EdWeb, Ecological Society of America, Baltimore, MD.
82. Brandon, A.L., **Gibson, D.J.**, & Middleton, B.A. 2004. Mechanisms for dominance in an early successional old field by the invasive non-native *Lespedeza cuneata* (Dum. Cours.) G. Don. *Biological Invasions*, 6: 483-493.
83. Gustafson, D.J., **Gibson, D.J.**, & Nickrent, D.L. 2004. Conservation genetics of two co-dominant species in the endangered tallgrass prairie ecosystem. *Journal of Applied Ecology*, 41: 389-397.
84. Gustafson, D.J., **Gibson, D.J.**, & Nickrent, D.L. 2004. Competitive relationships of *Andropogon gerardii* (big bluestem) from remnant and restored native populations and select cultivated varieties. *Functional Ecology*, 18: 451-457.
85. **Gibson, D.J.**, & Taylor, I. 2005. Biological Flora of the British Isles: *Festuca longifolia* Thuill (*F. glauca* auct. non Vill., *F. glauca* var. *caesia* (Sm.) Howarth, *F. caesia* Sm). *Journal of Ecology* 93: 214-226.
86. **Gibson, D.J.**, Middleton, B.A., Foster, K., Honu, Y.A.K., Hoyer, E.W., & M.J. Mathis. 2005. Species frequency dynamics in an old-field succession: effects of disturbance, fertilization and scale. *Journal of Vegetation Science*, 16: 415-422.
87. Gustafson, D.J., **Gibson, D.J.**, & Nickrent, D.L. 2005. Empirical support for the use of local seed sources in prairie restoration. *Native Plants Journal*, 6: 25-28.
88. Saunders, N.E., & **Gibson, D.J.** 2005. Breeding system, branching processes, hybrid swarm theory, and the humped-back diversity relationship as additional explanations for apparent monophyly in the Macaronesian island flora. *Journal of Ecology*, 93: 649-652.
89. Thomas, J.R., **Gibson, D.J.**, & Middleton, B.A. 2005. Water dispersal of vegetative bulbils of the invasive exotic: *Dioscorea oppositifolia* in southern Illinois. *Journal of the Torrey Botanical Society*, 132: 187-196.
90. Alwerdt, J.A., **Gibson, D.J.**, Ebbs, S.D., & Wood, A.J. 2006. Interspecific interactions in *Arabidopsis thaliana* and the stomatal mutants *tmm1-1* and *sdd1-2*. *Biologia Plantarum*, 50: 205-209.
91. Chandy, S., **Gibson, D.J.**, & Robertson, P.A. 2006. Additive partitioning of diversity across hierarchical spatial scales in a forested landscape in southern Illinois, USA. *Journal of Applied Ecology*, 43, 792-801.
92. Honu, Y.A.K., & **Gibson, D.J.** 2006. Microhabitat factors and the distribution of exotic species across forest edges in temperate deciduous forest of southern Illinois, USA. *Journal of the Torrey Botanical Society*, 133: 255-266.
93. Honu, Y.A.K., **Gibson, D.J.**, & B.A. Middleton. 2006. Effects of soil nutrients and disturbance on the performance of *Tridens flavus* (L.) A.S. Hitch. (Purpletop) in an early successional old field. *Journal of the Torrey Botanical Society*, 133, 421-428.
94. Thomas, J.R., Middleton, B.A & **Gibson, D.J.** 2006. A landscape perspective of the stream corridor invasion and habitat characteristics of an exotic (*Dioscorea oppositifolia*) in a pristine watershed in Illinois. *Biological Invasions*, 8, 1103-1111.
95. Heatherly, T., Whiles, M.R., **Gibson, D.J.**, Collins, S.L., Huryn, A.D., Jackson, J.K., & Palmer, M. A. 2007. Stream insect occupancy-frequency patterns and metapopulation structure. *Oecologia*, 151: 313-321. DOI 10.1007/s0042-006-0596-8.

96. Pande, A., Williams, C.L., Lant, C.L. & **Gibson, D.J.** 2007. Using map algebra to determine the mesoscale distribution of invasive plants: the case of *Celastrus orbiculatus* in southern Illinois, USA. *Biological Invasions*, 9: 419-431. DOI 10.1007/s10530-006-9049-x.
97. Brophy, C., **Gibson, D.J.**, Wayne, P.M. & Connolly, J. 2007. A modeling framework for analyzing the reproductive output of individual plants grown in monoculture. *Ecological Modelling*, 207: 99-108. doi: 10.1016/j.ecolmodel.2007.04.008.
98. Millar, K. **Gibson, D.J.**, Young, B.G., & Wood, A.J. 2007. Impact of interspecific competition on seed development and seed quality of five soybean cultivars. *Australian Journal of Experimental Agriculture*, 47: 1455-1459.
99. Brophy, C., **Gibson, D.J.**, Wayne, P.M. & Connolly, J. 2008. How reproductive allocation and flowering probability of individuals in plant populations are affected by position in stand size-hierarchy, plant size, and CO₂ regime. *Journal of Plant Ecology*, 1: 207-215. DOI: 10.1093/jpe/rtn024.
100. **Gibson, D.J.**, Millar, K., Delong, M., Connolly, J., Kirwan, L., Wood, A.J., & Young, B.G. 2008. The weed community affects yield and quality of soybean (*Glycine max* (L.) Merr.). *Journal of the Science of Food and Agriculture*, 88: 371-381. DOI: 10.1002/jsfa.3047
101. Honu, Y.A.K., & **Gibson, D.J.** 2008. Patterns of invasion: trends in abundance of understory vegetation, seed rain, and seed bank of exotic and native plant species from forest edge to interior. *Natural Areas Journal*, 28: 228-239.
102. Suchecki, P. & **Gibson, D.J.** 2008. Loss of *Cornus florida* leads to significant changes in the seedling and sapling strata in an eastern deciduous forest. *Journal of the Torrey Botanical Society*, 135: 506-515.
103. **Gibson, D.J.**, Delong, M.D., Chandy, S & Honu, Y.A.K. 2009. Reproductive challenges of a rare grass, *Calamagrostis porteri* subsp. *insperata*: implications for habitat restoration. *Applied Vegetation Science*, 12: 316-327. DOI: 10.1111/j.1654-109X.2009.01026.x
104. Holzmüller, E.J., **D.J. Gibson**, & Suchecki, P. 2009. Impacts of prescribed burning on *Cornus florida* trees affected with dogwood anthracnose. *Ecological Restoration*, 27: 389-391. DOI:10.3368/er.27.4.392.
105. Honu, Y.A.K., Chandy, S., & **Gibson, D.J.** 2009. Occurrence of exotic species deep in natural areas of the Shawnee National Forest. *Natural Areas Journal*, 29: 177-187.
106. West, N.M., **Gibson, D.J.**, & P. Minchin. 2009. Characterizing the microhabitats of exotic species in Illinois shale barrens. *Plant Ecology*, 200: 255-265. DOI 10.1007/s11258-008-9450-x. IF₂₀₀₉=1.567.
107. Chandy, S., & **Gibson, D.J.** 2009. Scale dependency of species composition and environmental variables in the strata of a deciduous forest. *Community Ecology*, 10: 121-130. DOI 10.1556/ComEc.10.2009.1.14. IF₂₀₀₉=0.792.
108. Chandy, S., Honu, Y.A.K., & **Gibson, D.J.** 2009. Short-term temporal changes in species composition in permanent plots across the Shawnee National Forest, Illinois, USA. *Journal of the Torrey Botanical Society*, 136: 487-499. IF₂₀₀₉=0.700.
109. West, N.M., **Gibson, D.J.**, & P.R. Minchin. 2010. Microhabitat analysis of the invasive exotic liana *Lonicera japonica* Thunb. *Journal of the Torrey Botanical Society*, 137: 380-390. IF₂₀₀₉=0.700.
110. **Gibson, D.J.**, Urban, J., & Baer, S.G. 2011. Mowing and fertilizer effects on seedling establishment in a successional old-field. *Journal of Plant Ecology*, 4:157-168: doi: 10.1093/jpe/rtr020. IF₂₀₁₀=1.549.
111. Lambert, A.M., Baer, S.G., & **Gibson, D.J.** 2011. Intraspecific variation in ecophysiology of three dominant prairie grasses used in restoration: cultivar versus non-cultivar sources. *Restoration Ecology*, 19: 43-52. doi: 10.1111/j.1526-100X.2010.00673.x. IF₂₀₁₀=1.927.
112. Millar, K., **D.J. Gibson**, B.G. Young, A. Wood. & Ebbs, S.D. 2011. Evaluation of physiological parameters for the prediction of seed yield and quality for soybean (*Glycine max* L. Merr.) plants grown

- in the presence of weed competition. *Plant Biosystems*, 145: 1-11. IF₂₀₁₀=0.829. DOI: 10.1080/11263504.2010.514129
113. Delong, M.K., & **Gibson, D.J.** 2012. What determines “suitable habitat” for metapopulation studies? An analysis of environmental gradients and species assemblages in xeric forest openings. *American Journal of Botany*, 99: 1-9. Doi: 10.3732/ajb.1000236. IF₂₀₁₀=3.052.
 114. IF₂₀₁₀=0.842.
 115. **Gibson, D.J.** 2012. Ordination analysis. In *Oxford Bibliographies in Ecology*. Ed. David J. Gibson. New York: Oxford University Press. URL: <http://www.oxfordbibliographiesonline.com/obo/page/Ecology>. DOI: 10.1093/OBO/9780199830060-0003.
 116. **Gibson, D.J.** 2012. Succession. In *Oxford Bibliographies in Ecology*. Ed. David J. Gibson. New York: Oxford University Press. URL: <http://www.oxfordbibliographiesonline.com/obo/page/Ecology>. DOI: 10.1093/OBO/9780199830060-0001.
 117. **Gibson, D.J.** 2012. Grassland biome. In *Oxford Bibliographies in Ecology*. Ed. David J. Gibson. New York: Oxford University Press. URL: <http://www.oxfordbibliographiesonline.com/obo/page/Ecology>. DOI: 10.1093/OBO/9780199830060-0032.
 118. **Gibson, D.J.**, Allstadt, A., Baer, S.G., & Geisler, M.G. 2012. Effects of foundation species genetic diversity on subordinate species richness in an assembling community. *Oikos*, 121:496-507. IF₂₀₁₀=3.393. DOI: 10.1111/j.1600-0706.2011.19447.x
 119. Hutchings, M.J., **Gibson, D.J.**, Bardgett, R.D., Rees, M., Newton, E., Baier, A., & Sandhu, L. 2012. Tansley’s vision for *Journal of Ecology*, and a Centenary Celebration. *Journal of Ecology* 100: 1-5. Doi: 10.1111/j.1365-2745.2011.01927.x . IF₂₀₁₀=5.260.
 120. McLane, C.R., Battaglia, L.L., **Gibson, D.J.**, & J.W. Groninger. 2012. Succession of exotic and native species assemblages across a chronosequence of restored floodplain forests: a test of the parallel dynamics hypothesis. *Restoration Ecology*, 20: 202-210. doi: 10.1111/j.1526-100X.2010.00763.x. IF₂₀₁₀=1.927.
 121. Holzmüller, E.J., **Gibson, D.J.**, & Suchecki, P.F. 2012. Accelerated succession following an intense wind storm in an oak-dominated forest. *Forest Ecology & Management*, 279: 141-146. Doi: 10.1016/j.foreco.2012.05.036. IF₂₀₁₁=2.487.
 122. **Gibson, D.J.**, Baer, S.G., Klopff, R.P., Reed, L.K., Wodika, B., & Willand, J. 2013. Limited effects of dominant species population source on community composition during community assembly. *Journal of Vegetation Science*, 24: 429-440. DOI: 10.1111/j.1654-1103.2012.01475.x. IF₂₀₁₁=2.77.
 123. **Gibson, D.J.**, Gage, K.L., Matthews, J.L., Young, B.G., Owen, M.D.K., Wilson, R.G., Weller, S.C., Shaw, D.R., Jordan, D.L. 2013. The effect of weed management systems on weed species communities over 5 years in glyphosate resistant cropping systems. *Applied Vegetation Science*, 16: 676-687. DOI: 10.1111/avsc.12039. IF₂₀₁₂= 1.678.
 124. **Gibson, D.J.**, & Middleton, B.A. 2013. Succession in ecological education. In: Encyclopedia of Wetlands: Structure and Function (Vol 1), ed by Finlayson, M. Springer. Springer-Verlag Berlin Heidelberg, 2013. Republished in 2017 as The Wetland Book: Structure and Function, Management and Methods. Ed C Max Finlayson, B. Middleton, R. McInnes, M. Everard, A. van Damm, & K. Irvine. ISBN 978-90-481-9659-3.
 125. Shupert, L.A., Ebbs, S.D., Lawrence, J., **Gibson, D.J.**, & Filip, P. 2013. Dissolution of copper and iron from automotive brake pad wear debris enhances growth and accumulation by the invasive macrophyte *Salvinia molesta* Mitchell. *Chemosphere* 92: 45-51. <http://dx.doi.org/10.1016/j.chemosphere.2013.03.002>. IF₂₀₁₁= 3.206.
 126. Young, B.G., **Gibson, D.J.**, Gage, K.L., Matthews, J.L., Jordan, D.L., Owen, M.D.K., Shaw, D.R., Weller, S.C., & Wilson, R.G. 2013. Agricultural weeds in glyphosate-resistant cropping systems in the United States. *Weed Science*, 61: 85-97. DOI: 10.1614/WS-D-12-00001.1 IF₂₀₁₁= 1.733.

127. Hansen, M.J., & **Gibson, D.J.** 2013 Use of multiple criteria in an assessment of a prairie restoration chronosequence. *Applied Vegetation Science*, 17: 63-73. Doi: 10.1111/avsc.12051 IF₂₀₁₂= 1.678. F1000Prime Recommended.
128. Romano, A.J., Therrell, M., Schoof, J., & **Gibson, D.J.** 2013. Response of non-native invasive plants to large scale wind damage. *Natural Areas Journal*, 33: 307-315. doi: <http://dx.doi.org/10.3375/043.033.0309>. IF₂₀₁₂= 0.707.
129. **Gibson, D.J.**, Sendor, G., Donatelli, J., Baer, S.G., & Johnson, L. 2013. Fitness among population sources of a dominant grassland species (*Andropogon gerardii* Vitman) used in prairie restoration. *J. Torrey Bot. Club*, 140(3): 269-279. doi: <http://dx.doi.org/10.3159/TORREY-D-12-00063.1>. IF₂₀₁₂= 0.750.
129. Willand, J., Baer, S.G., **Gibson, D.J.**, & R. Klopff. 2013. Temporal dynamics of propagule sources for community regeneration during grassland establishment. *Plant Ecology*, 214: 1169-1180. DOI: 10.1007/s11258-013-0241-7. IF₂₀₁₂= 1.534.
130. Baer, S.G., **Gibson, D.J.**, Benscoter, A.M., Reed, L.K., Campbell, R.E., Klopff, R.P., Willand, J., & Wodika, B. 2014. No effect of seed source on multiple aspects of ecosystem functioning during ecological restoration: cultivars compared to local ecotypes of dominant grasses. *Evolutionary Applications*, 7: 323-335. IF₂₀₁₂= 4.153. DOI: 10.1111/eva.12124
131. Brophy, C., **Gibson, D.J.**, Wayne, P.M. & Connolly, J. 2014. A mixture model and bootstrap analysis to assess reproductive allocation in plants. In: Gilbert MacKenzie and Defen Peng (eds). *Statistical Modelling in Biostatistics and Bioinformatics: Selected Papers*. Springer-Verlag., pp. 186-192.
132. Gustafson, D.G., Major, C., Jones, D., Synovec, J., Baer, S.G., & **D.J. Gibson**. 2014. Genetic sorting of subordinate species in grassland modulated by intraspecific variation in dominant species. *PLoS ONE* 9(3): e91511. doi:10.1371/journal.pone.0091511. IF₂₀₁₂= 4.411. *Dryad Digital Repository*: <http://dx.doi.org/10.5>
133. **Gibson, D.J.**, Dewey, J., Goossens, H., & M.M. Dodd. 2014. Intraspecific variation among clones of a naïve rare grass affects competition with an invasive forb. *Ecology & Evolution*, 4: 186-199. DOI: 10.1002/ece3.919. 061/dryad.cq8bh. Dryad archive: Data identifier: doi:10.5061/dryad.k68n1. IF₂₀₁₂= 1.184
134. Klopff, R.P., Baer, S.G., & **D.J. Gibson**. 2014. Convergent and contingent community responses to grass source and dominance during prairie restoration across a longitudinal gradient. *Environmental Management*, 53: 252-265. DOI 10.1007/s00267-013-0209-3. IF₂₀₁₂=1.647.
135. Schwartz, L.M., & **Gibson, D.J.** 2014. The competitive response of *Panicum virgatum* cultivars to non-native invasive species. *Environment and Natural Resources Research*, 4 (2): 80-91. doi:10.5539/enrr.v4n2p.
136. Schwartz, L.M., Wood, A.J., & **D.J. Gibson**. 2014. Trigonelline accumulation in leaves of *Panicum virgatum* seedlings. *Natural Product Communications*, 9 (8): 1163-6. IF₂₀₁₂=0.956.
137. Dodd, M.D., Ebbs, S.D., **Gibson, D.J.**, & P. Filip. 2014. Alteration of root growth by lettuce, wheat, and soybean in response to wear debris from automotive brake pads. *Archives of Environmental Contamination and Toxicology*, 67(4):557-564. DOI: 10.1007/s00244-014-0053-3. IF₂₀₁₂=2.012.
138. Schwartz, L.M., **D.J. Gibson**, K.L. Gage, J.L. Matthews, D.L. Jordan, M.D.K. Owen, D.R. Shaw, S.C. Weller, R.G., Wilson & B.G. Young. 2015. Seedbank and field emergence of weeds in glyphosate-resistant cropping systems in the United States. *Weed Science*, 63: 425-439. doi: <http://dx.doi.org/10.1614/WS-D-14-00089.1> . IF₂₀₁₃=1.684. *Weed Science Society of America voted this their Outstanding Paper of the Year in the journal *Weed Science*.
139. Willand, J., Baer, S.G., & **D.J. Gibson**. 2015. Propagule abundance and richness are equivalent or higher in communities restored with local ecotypes relative to cultivars of dominant species. *Journal of Vegetation Science*, 26: 421-430. doi: 10.1111/jvs.12257. IF₂₀₁₃=3.372.

140. Martinez, K.A., **D.J. Gibson**, & B.A. Middleton. 2015. Core-satellite hypothesis and native versus exotic species in secondary succession. *Plant Ecology*, 216: 419-427. 10.1007/s11258-015-0446-z. IF₂₀₁₃=1.640.
141. Gage, K.L., **Gibson, D.J.**, Young, B.G., Young, J.M., Matthews, J.L., Weller, S.C., & Wilson, R.G. 2015. Occurrence of an herbicide-resistant plant trait in agricultural field margins. *Ecology & Evolution*, 5: 4161-4173 DOI - 10.1002/ece3.1667
142. **Gibson, D.J.**, Young, B.G., Owen, M.D.K., Gage, K.L., Matthews, J.L., Jordan, D.L., Weller, S.C., Wilson, R.G. 2016. Benchmark study on glyphosate-resistant cropping systems in the United States. Part 7: Effects of weed management tactics, and grower practices versus weed resistance best management practices on the weed soil seedbank over 6 years. *Pest Management Science*, 72: 692-700. DOI: 10.1002/ps.4039. IF₂₀₁₃=2.743.
143. Schwartz, L.M., **D.J. Gibson**, & Young, B.G. 2016. Life history of *Achyranthes japonica* (Amaranthaceae): an invasive species in southern Illinois. *J. Torrey Bot. Soc.*, 143(2): 93-102. DOI: 10.3159/TORREY-D-14-00014.
144. Schwartz, L.M., **D.J. Gibson**, & Young, B.G. 2016. Using integral projection models to compare population dynamics of four closely related species. *Population Ecology*, 58: 285-292. DOI: 10.1007/s10144-016-0537-2. IF₂₀₁₄=1.57
145. Schwartz, L.M., **D.J. Gibson**, & Young, B.G. 2016. Do plant traits predict the competitive abilities of closely related species. *AOB Plants*, 8: plv147; doi: 10.1093/aobpla/plv147.
146. Wilson, L.R., **D.J. Gibson**, S.G. Baer, & L.C. Johnson. 2016. Plant community response to regional sources of dominant grasses in grasslands restored across a longitudinal gradient. *Ecosphere* 7(4):e01329. [10.1002/ecs2.1329](https://doi.org/10.1002/ecs2.1329).
147. **Gibson, D.J.**, J.M. Donatelli, A. AbuGhazaleh, S.G. Baer, & L.C. Johnson. 2016. Ecotypic variation in forage nutrient value of a dominant prairie grass across a precipitation gradient. *Grassland Science*, 62: 233-242. doi: 10.1111/grs.12131. IF₂₀₁₅=0.82
148. **Gibson, D.J.**, & **B.A. Middleton**. 2016. Succession in Ecological Education. Pp. 1-6. In: C.M. Finlayson et al. (eds.), *The Wetland Book*, Springer Science Business Media Dordrecht (Outside the USA). Doi 10.1007/978-94-007-6172-8_6-4.
149. Bardgett, R.D., & **D.J. Gibson**. 2017. Plant ecological solutions to global food security. *Journal of Ecology*, 105: 859-864. DOI: 10.1111/1365-2745.12812. IF₂₀₁₅=6.180.
150. **Gibson, D.J.** (Ed.). (2017, September 28). Ecology Series [Video files]. In *The Biomedical & Life Sciences Collection*, Henry Stewart Talks. Retrieved October 5, 2017, from <https://hstalks.com/bs/p/1022/>
151. Geisler-Lee, J., Liu, X, L., Rang, W., Raveendiran, J., Szubryt, M.B., **Gibson, D.J.**, Geisler, M., & Cheng, Q. 2017. Image-based analysis to dissect vertical distribution and horizontal asymmetry of conspecific root system interactions in response to planting densities, nutrients and root exudates in *Arabidopsis thaliana*. *Plants*, 6, Art 46; doi:10.3390/plants6040046.
152. **Gibson, D.J.**, Wood, A.J., & B.G. Young. 2017. Can weeds enhance profitability? Integrating ecological concepts of weed competition into sustainable cropping. *Journal of Ecology*, 105: 900-904. DOI:10.1111/1365-2745.12785. IF₂₀₁₅=6.180.
153. Khalil, M.I., **Gibson, D.J.**, & Baer, S.G. 2017. Phylogenetic diversity reveals hidden patterns related to population source and species pools during restoration. *Journal of Applied Ecology*, 54: 91-101. DOI: 10.1111/1365-2664.12743. IF₂₀₁₅=5.196
154. Barber, N.A., Jones, H.P., Duvall, M.R., Wysocki, W.P., Hansen, M.J., & **D.J. Gibson**. 2017. Phylogenetic diversity is maintained despite richness losses in restored tallgrass prairie plant communities. *Journal of Applied Ecology*, 54: 137-144. DOI: 10.1111/1365-2664.12639. IF₂₀₁₅=5.196

155. Nolte, S.A., Young, B.G., Tolley, L.T., **Gibson, D.J.**, Young, J.M., & D.A. Lightfoot. 2017. Glufosinate absorption, translocation, and metabolic fingerprint of *gdhA*-transformed tobacco. *Crop Science*, 57: 350-364. doi: 10.2135/cropsci2016.05.0333.
156. Srour, A.Y., **Gibson, D.J.**, Leondro, F.S.L., Malvick, D.K., Bond, J.P., & A.M. Fakhoury. 2017. Unraveling microbial and edaphic factors affecting the development of sudden death syndrome in soybean. *Phytobiomes*, 1: 91-101. doi: 10.1094/PBIOMES-02-17-0009-R IF₂₀₂₀ = 3.244
157. Flowers, N.D., & **D.J. Gibson**. 2018. Quantified effects of artificial versus natural nighttime lighting on the Eurasian grasses *Bothriochloa bladhii* (Poaceae) and *Bothriochloa ischaemum* (Poaceae) and the North American grasses *Panicum virgatum* (Poaceae) and *Sorghastrum nutans* (Poaceae). *J. Torrey Botanical Society*, 145(2): 147-155.
158. Khalil, M., **Gibson, D.J.**, Baer, S.G., & J. Willand. 2018. Functional diversity is more sensitive to biotic filters than phylogenetic diversity during community assembly. *Ecosphere*, 9: art e02164. doi: 10.1002/ecs2.2164. Content sharing link: <https://rdcu.be/LeMa>
159. Baer, S.G., Gibson, D.J., & L.C. Johnson. 2019. Restoring grassland in the context of climate change. Pages 308-320. In: **Gibson, D.J.**, & J.A. Newman (eds). *Grasslands and Climate Change*. British Ecological Society, Ecological Reviews series. Cambridge University Press, UK. 346 pp. ISBN 978-1-31-6646779.
160. **Gibson, D.J.**, Shupert, L.A., & X. Liu. 2019. Do no harm: efficacy of herbicide control of an invasive shrub while minimizing collateral damage to native species. *Plants*, 8(10), 426; <https://doi.org/10.3390/plants8100426>. IF₂₀₁₈=2.632
161. Jones, H.P., Barber, N.A. & **D.J. Gibson**. 2019. Is phylogenetic and functional trait diversity a driver or a consequence of community assembly? *Journal of Ecology*, 107, 2027-2032. IF₂₀₁₈= 5.68 <https://doi.org/10.1111/1365-2745.13260>.
162. Khalil, M., **Gibson, D.J.**, & Baer, S.G. 2019. Functional response of subordinate species to intraspecific trait variability within dominant species. *Journal of Ecology*, 107, 2040-2053. IF₂₀₁₈= 5.68 <https://doi.org/10.1111/1365-2745.13249>
163. Rumpa, M.M., Krausz, R.F., Gibson, D.J., & K.L. Gage. 2019. Effect of PPO-inhibiting herbicides on growth and sex ratio of a dioecious weed species *Amaranthus palmeri* (Palmer amaranth). *Agronomy*, 9(6), 275. <https://doi.org/10.3390/agronomy9060275>. IF₂₀₁₈=1.419.
164. Barfknecht, D.F., **D.J. Gibson**, & K.M. Neubig. 2020. Plant community and phylogenetic shifts in acid seep springs over 49 years following *Microstegium viminium* invasion. *Plant Ecology*, 221: 167-175. <https://doi.org/10.1007/s11258-020-01002-7> IF₂₀₁₉=1.789.
165. Barfknecht, D.F., Li, G., Martinez, K.A., & **Gibson, D.J.**, 2020. Interactive disturbances drive community composition, heterogeneity, and the niches of invasive exotic plant species during secondary succession. *Plant Ecology & Diversity*, 13: 363-375. DOI: 10.1080/17550874.2020.1841313. <https://doi.org/10.1080/17550874.2020.1841313>. IF₂₀₁₉ = 1.196.
166. Galliard, M., Sabates, S., Tetreault, H., DeLaCruz, A., Bryant, J., Alsdurf, J., Knapp, M., Bello, N.M., Baer, S.G., Maricle, B.R., **Gibson, D.J.**, Poland, J., St. Amand, P., Johnson, L., & N. Unruh. 2020. Adaptive genetic potential and plasticity of trait variation in the foundation prairie grass *Andropogon gerardii* across the US Great Plains' climate gradient: Implications for climate change and restoration. *Evolutionary Applications*, 13: 2333– 2356. <https://doi.org/10.1111/eva.13028>. IF₂₀₁₈=4.013.
167. Garrett, E.M., & **D.J. Gibson**. 2020. Identifying sustainable grassland management approaches in response to the invasive Legume *Lespedeza cuneata*: A functional group approach. *Sustainability*, 12 (15), 5951. <https://www.mdpi.com/2071-1050/12/15/5951>. <https://doi.org/10.3390/su12155951> IF₂₀₁₉=2.576. Selected as cover article for the issue.

168. Kattge, J., G. Bönish, S. Diaz,....**D.J. Gibson**...& C. Wirth. 2020. TRY plant trait database –enhanced coverage and open access. *Global Change Biology*, 26: 119-188. <https://doi.org/10.1111/gcb.14904> IF₂₀₁₉=8.88.
169. Keith, D.A., Essl, F., & **Gibson, D.J.** 2020. Temperate subhumid grasslands. In: Keith, D.A., Ferrer-Paris, J.R. Nicholson, E. and Kingsford, R.T. (eds). *The IUCN Global Ecosystem Typology 2.0: Descriptive profiles for Biomes and Ecosystem Functional Groups*. Gland, Switzerland: IUCN. ISBN 978-2-8317-2077-7. DOI:[10.2305/IUCN.CH.2020.13.en](https://doi.org/10.2305/IUCN.CH.2020.13.en). <https://global-ecosystems.org/explore/groups/T4.5> .
170. Smith, M.D., S.E. Koerner, A.K. Knapp, M.L. Avolio, J.M. Briggs, F.A. Chaves, E. Denton, J. Dietrich, **D.J. Gibson**, J. Gray, A.M. Hoffman, D.L. Hoover, K.J. La Pierre, A. Silletti, K.R. Wilcox, Q. Yu, & J.M. Blair. 2020. Mass ratio effects underlie ecosystem responses to environmental change. *Journal of Ecology*, 108: 855-864. <https://doi.org/10.1111/1365-2745.13330> . IF₂₀₁₉= 5.72
171. Barfknecht, D., & **D.J. Gibson**. 2021. Taxonomic and phylogenetic composition show biotic resistance to exotic invasion in acid seep springs. *Ecological Processes*, 10, 4 <https://doi.org/10.1186/s13717-020-00272-3>. IF₂₀₁₉ = 1.642.
172. Bryan, C.J., S.D. Sipes, M.Arduser, L. Kassim, **D.J. Gibson**, D.A. Scott, & K.L. Gage. Efficacy of cover crops for pollinator habitat provision and weed suppression. 2021, *Environmental Entomology*. Doi: 10.1093/ee/nvaa159 IF₂₀₁₉=1.470. Permanent free access link: <https://academic.oup.com/ee/advance-article/doi/10.1093/ee/nvaa159/6092748?guestAccessKey=aa867af9-ad57-4a58-8e64-845c8c8925a8>
173. Heger, T., Aguilar, C., Bartram, I., Braga, R.R., Dietl, G.P., Enders, M., **Gibson, D.J.**, Gomez-Aparicio, L., Gras, P., Jax, K., Lokatis, S., Lortie, C.J., Mupepe, A-C., Schindler, S., Starrfeld, J., Synodinos, A., & Jeschke, J.M. 2021. The hierarchy-of-hypotheses approach: A synthesis method for enhancing theory development in ecology and evolution. *BioScience*, 71 (4): 337-349. Doi: 10.1093/biosci/biaa130. Preprint available on *EcoEvoRxiv Preprints*. <https://ecoevorxiv.org/repository/view/4467/> IF₂₀₁₉=8.282.
174. Li, G., Barfknecht, D.F., & **Gibson, D.J.** 2021. Mowing and fertilizer effects on plant diversity-productivity relationships from a 22-year old successional field. *Journal of Vegetation Science*; 32:e12970. <https://doi.org/10.1111/jvs.12970> IF₂₀₁₉= 2.698.
175. Johnson, L., Galliard, M., Alsdurf, J., Maricle, B.R., Baer, S.G., Bello, N., **Gibson, D.J.**, & A. Smith. 2022. Reciprocal gardens as gold standard to detect local adaptation in grassland species: New opportunities moving into the 21st century. *Journal of Ecology*, 110, 1054-1071. <https://doi.org/10.1111/1365-2745.13695>
176. Crocker, E., Evans, C., & **Gibson, D.J.** 2022. Invasive species update: Chaff flower. University of Illinois Extension, FORFS 22-02. <https://t.co/gV7YgtT2xR> (pdf)
177. Li, Q., Thapa, S., Hu, X., Luo, Z., & **Gibson, D.J.** 2022. The relationship between urban green space and urban expansion based on gravity methods. *Sustainability*, 14(9), 5396. <https://doi.org/10.3390/su14095396>
178. Liu, T., X. Wu., H. Li, C. Ning, Y. Li., X. Zhang, J. He., F. Ekaterina, S. Chen, X. Chen, **D.J. Gibson**, W. Yan. 2022. Soil quality and r- K fungal communities plantations after conversion from subtropical forest. *Catena*, 219:.. <https://doi.org/10.1016/j.catena.2022.106584> Preprint at: <https://doi.org/10.22541/au.164076512.22206022/v1>.
179. Barfknecht, D. & **D.J. Gibson**. 2023. Are metapopulation species drivers of metacommunity structure in sandstone outcrop communities? *Journal of Vegetation Science*, e13167. <https://doi.org/10.1111/jvs.13167>.
180. Barfknecht, D.F., Thapa, S., **D.J. Gibson, D.J.** Holzmüller, E. 2023. Taxonomic and phylogenetic shifts following an inland derecho. *Biodiversity and Conservation*, 32(7): <https://doi.org/10.1007/s10531-023-02610-1>. (IF₂₀₂₁ = 4.296).
181. Hernandez, E. P, F. Bastida, **D.J. Gibson**, F. B. Losada, M. J. Giménez Alvear, Y. Pallavicini, J. Izquierdo, & J.L. González-Andujar. 2023. Crop quality may not be at the expense of agricultural

- sustainability: relationship between weed community structure and wheat grain quality. *Agronomy*, 13(1), 49; <https://doi.org/10.3390/agronomy13010049>.
182. Ren, Z., S.G. Baer, L. Johnson, M.B. Gallart, L.R. Wilson, **D.J. Gibson**. 2023. The role of dominant prairie species ecotypes on plant diversity patterns of restored grasslands across a rainfall gradient in the US Great Plains. *Applied Vegetation Science*, e12725. <https://doi.org/10.1111/avsc.12725>
183. Ren, Z., **D.J. Gibson**, K.L. Gage, J.L. Matthews, M.D.K. Owen, D.L. Jordan, D.R. Shaw, S.C. Weller, R.G. Wilson., B.G. Young. 2023. Exploring the effect of region on diversity and composition of weed seedbanks in herbicide-resistant crop systems in the United States. *Pest Management Science* 80(3): 1446-1453. <https://doi.org/10.1002/ps.7875>
184. Sanders, N., N. Cooper, A. Davis-Rabosky, & **D.J. Gibson**. 2023. Editorial: Leveraging natural history collections to understand the impacts of global change. *Journal of Animal Ecology*, 92 (3): 232-236. IF= 5.60. DOI: 10.1111/1365-2656.13882
185. Barfknecht, D.F., **D.J. Gibson**, & A. Hieken. 2024. Temporal changes in spatial scale and autocorrelation structure of forest openings based on taxonomic, phylogenetic, and functional turnover. *Acta Oecologica*, 123: 103998. <https://doi.org/10.1016/j.actao.2024.103998>
186. Eduardo-Palomino, F., **Gibson, D.J.**, Barberá, P., Castro, J., Trillo, F., La Torre, M.I., & Walters, S. A. 2024. International Biological Flora: *Festuca dolichophylla*[†] *Journal of Ecology*, 112, 1655-1682. <https://doi.org/10.1111/1365-2745.14343>.
187. **Gibson, D.J.**, Barfknecht, D.F., Baer, S.G., Gallart, M., Sytsma, J., Ren, Z., & Johnson, L. 2024. Diversity-productivity relationships are dependent upon location and ecotypes of the dominant species growing across a precipitation gradient. Preprint at: <https://doi.org/10.21203/rs.3.rs-5363857/v1> <https://www.researchsquare.com/article/rs-5363857/latest>
188. **Gibson, D.J.**, Benda, C., Felsl, I., & G. Kiefer. 2024. Challenges in the establishment of a rare plant species monitoring program using community science volunteers. *Ecological Solutions and Evidence*, 5, e12400 <https://doi.org/10.1002/2688-8319.12400>.
189. Ren, Z., Baer, S.G., Johnson, L.C., Gallart, M.B. & **D.J. Gibson**. 2024. Effects of manipulated rainfall and intraspecific variation within dominant species on community assembly: insights from a long-term grassland restoration experiment. *Ecology & Evolution*, 14: e70571. <https://doi.org/10.1002/ece3.70571>.
190. van der Veen, B., & **D.J. Gibson**. 2024. Ordination Analysis. Oxford Bibliographies in Ecology. (DOI: 10.1093/OBO/9780199830060-0003).
191. Chen, S., Wang, G., Xu, X., Li, R., Remo, J., Groninger, J. W., & **D.J. Gibson**. 2025. Improvement of spectral unmixing for mapping fractional abundances of endmembers using Landsat images in the Detroit city landscape. *Urban Forestry & Urban Greening*. <https://doi.org/10.1016/j.ufug.2025.128786>
192. Ekmekci, A., Aqazade, M., **Gibson, D.J.**, & Rushton, G. 2025. Measuring teachers' motivation, beliefs, leadership engagement, and networks: Validation of instruments for teacher education and research. *Professional Development in Education*. 1-25. <https://doi.org/10.1080/19415257.2025.2580333>.
193. Ekmekci, A., M. Aqazade, R. McGraw, G. Rushton, **D.J. Gibson**, C. Cerosaletti, M. Daley, & B. Kucuk. 2025. Using human, social, structural, and positive psychological capital to explore science and mathematics teacher retention. *International Journal of STEM Education*, 12:14, 1–22. <https://doi.org/10.1186/s40594-024-00523-1>.
194. Heger, T., Eliot-Graves, A., Kaiser, M.I., Morrow, K.H., Bausman, W., Dietl, G., Dormann, C., **Gibson, D.J.**, Griesemer, J., Itescu, Y., Jax, K., Latimer, A., Liu, C., Starrfelt, J., Stephens, P.A., & Jeschke, J.M. 2025. Looking beyond Popper: How philosophy can be relevant to ecology. *Oikos*, e10994. <https://doi.org/10.1111/oik.10994>.

195. Rumpa, M.M., S. Babaei, R.F. Krausz, **D.J. Gibson**, E.J. Miller, & K.L. Gage. 2025. Does exposure to PPO-inhibiting herbicides alter the male-to-female sex ratio of *Amaranthus palmeri*? *Weed Technology* 1–31. <https://doi.org/10.1017/wet.2025.24>.
196. **Gibson, D.J.**, & S. Thapa. *In Press*. Grasslands at Scale: Mapping Extent, Diversity, and the Price of Neglect. In: Hager, H.A., **Gibson, D.J.**, & J.A. Newman (Eds.). *Routledge Handbook of Grasslands*. Routledge, London, UK. ISBN: 978-1032491752.
197. **Gibson, D.J.**, J.A. Newman, & H.A. Hager. *In press*. Saving our shared heritage: priorities for grassland conservation and management. In. *Routledge Handbook of Grasslands* (Ed. Hager, H.A., **Gibson, D.J.**, & J.A. Newman). Routledge, London, UK. ISBN: 978-1032491752.
198. Newman, J.A., **D.J. Gibson**, & H.A. Hager. *In press*. Grasslands at the crossroads: Integrating science, culture, and sustainability. In. *Routledge Handbook of Grasslands* (Ed. H. Hager, J.A. Newman, & D.J. Gibson). Routledge, London, UK. ISBN: 978-1032491752.
199. Sytsma, J., M. Galliard, **D.J. Gibson**, E. Hartung, B. Maricle, & L. Johnson. *In press*. Adaptive alleles on the prairie: Genomic insights for a warming world. In. *Routledge Handbook of Grasslands* (Ed. Hager, H.A., **Gibson, D.J.**, & J.A. Newman). Routledge, London, UK. ISBN: 978-1032491752.

Non-refereed publications:

1. Haddon, L., Davy, A., **Gibson, D.J.**, & Hutchings, M. 2003. *Journal of Ecology* News. *Journal of Ecology*, 91: 1-3.
2. Haddon, L., Davy, A., **Gibson, D.J.**, & Hutchings, M. 2004. *Journal of Ecology* News. *Journal of Ecology*, 92: 1-4.
3. Haddon, L., **Gibson, D.J.**, Hutchings, M., & Press, M.C. 2005. *Journal of Ecology* News. *Journal of Ecology*, 93: 1-4.
4. Haddon, L., **Gibson, D.J.**, Hutchings, M., & Press, M.C. 2006. *Journal of Ecology* News. *Journal of Ecology*, 94: 1-6.
5. Hutchings, M., **Gibson, D.J.**, & Press, M.C. 2006. Announcement. *Journal of Ecology*, 94: 509.
6. **Gibson, D.J.** 2007. Editor's Choice. *Journal of Ecology*, 95: online only at: <http://www.britishecologicalsociety.org/articles/publications/journals/ecology/News%20and%20Announcements/#choice>.
7. Hutchings, M.J., **Gibson, D.J.**, Bardgett, R., & Owen, M. 2007. *Journal of Ecology* News. *Journal of Ecology*, 95: 1-7.
8. Davies, B., Hutchings, M.J., **Gibson, D.J.**, & Bardgett, R. 2008. *Journal of Ecology* News. *Journal of Ecology*, 96: 1-6.
9. **Gibson, D.J.** 2008. Editor's Choice. *Journal of Ecology*, 96(3): online at: <http://www.journalofecology.org/view/0/edschoice963.html>.
10. **Gibson, D.J.** 2008. Editor's Choice. *Journal of Ecology*, 96(6): online at: <http://www.journalofecology.org/view/0/edschoice966.html> and reprinted in *Bulletin of the British Ecological Society*, 39 (4): 72-73
11. Hutchings, M.J., **Gibson, D.J.**, Bardgett, R., & Davies, B. 2008. Editorial. *Journal of Ecology*, 96: 7.

12. **Gibson, D.J.** 2009. Editor's Choice. *Journal of Ecology*, 97(3): online at: <http://www.journalofecology.org/view/0/edschoice973.html> and reprinted in *Bulletin of the British Ecological Society*, 40 (2): 49-50
13. Hutchings, M.J., **Gibson, D.J.**, Bardgett, R., Clegg, G., & Baier, A. 2009. *Journal of Ecology* News. *Journal of Ecology*, 97: 1-3.
14. Hutchings, M.J., Baier, A., **Gibson, D.J.**, Bardgett, R. D., & Clegg, G. 2010. *Journal of Ecology* News. *Journal of Ecology*, 98: 247-249. Doi: 10.1111/j.1365-2745.2009.01636.x. IF₂₀₀₉=4.69.
15. **Gibson, D.J.** 2010. Editor's Choice. *Journal of Ecology*, 98(6): online at <http://www.journalofecology.org/view/0/edchoice986.html>.
16. Hutchings, M.J., Baier, A., **Gibson, D.J.**, Bardgett, R. D., Rees, M. & Roake, N. 2011. *Journal of Ecology* News. *Journal of Ecology*, 99: 1-2. doi: 10.1111/j.1365-2745.2010.01772.x. IF₂₀₁₀=5.26.
17. Hutchings, M.J., **Gibson, D.J.**, Bardgett, R. D., Rees, M., Newton, E., Baier, A., Sandhu, L. 2012. *Journal of Ecology* News. *Journal of Ecology*, 100: 141-143. doi: 10.1111/j.1365-2745.2011.01926.x. IF₂₀₁₀=5.26.
18. **Gibson, D.J.**, Bardgett, R.D., Rees, M., Baier, A., Sandhu, L., & Newton, E. 2013. *Journal of Ecology* News. *Journal of Ecology*, 101: 1-4. doi: 10.1111/1365-2745.12030. IF₂₀₁₁=5.044.
19. **Gibson, D.J.**, Austin, A., Bardgett, R.D., Rees, M., Baier, A., & Sandhu, L. 2014. *Journal of Ecology* News. *Journal of Ecology*, 102: 1-3. Doi: 10.1111/1365-2745.12191. IF₂₀₁₂=5.431.
20. **Gibson, D.J.**, Austin, A., Bardgett, R.D., Rees, M., Baier, A., & Sandhu, L. 2015. *Journal of Ecology* News. *Journal of Ecology*, 103: 90-92. Doi: 10.1111/1365-2745.12352. IF₂₀₁₃=5.694.
21. **Gibson, D.J.**, Austin, A., Bardgett, R.D., Rees, M., Baier, A., & Sandhu, L. 2016. *Journal of Ecology* News: Data Archiving Compliance. *Journal of Ecology*, 104: 1-4. doi: 10.1111/1365-2745.12502. IF₂₀₁₃=5.521.
22. Bryan, C.J., Schoonover, J.E., Sipes, S.D., Kassim, L., **Gibson, D.J.**, Scott, D.A., & K. Gage. 2019. Cover crop benefits to pollinators and the agroecosystem. Open SIUC https://opensiuc.lib.siu.edu/psas_articles/85/

Blog-posts:

1. **Gibson, D.J.** 2012. Ecological inspirations: Alex Watt's "Pattern and Process in the Plant Community" *Journal of Ecology* Blog 13/01/2012 <http://jecologyblog.wordpress.com/2012/01/13/ecological-inspirations-alex-watts-pattern-and-process-in-the-plant-community/>.
2. **Gibson, D.J.** 2012. It's Ecology, not Environmental Science. OUPblog 15/05/2012. <http://blog.oup.com/2012/05/its-ecology-not-environmental-science/>.
3. **Gibson, D.J.**, Baier, A., Chamberlain, S. 2013. Uptake of *Journal of Ecology* papers in 2012: A comparison of metrics. *Journal of Ecology* Blog 17/1/2013 <http://jecologyblog.wordpress.com/2013/01/17/uptake-of-journal-of-ecology-papers-in-2012-a-comparison-of-metrics/> .
4. **Gibson, D.J.** 2014. Population Ecologists, Scale Up. OUPblog 12/13/2014. <http://blog.oup.com/2014/12/population-ecologists-scale/>.
5. **Gibson, D.J.**, & R. Bardgett. 2017. Special Feature: Plant Ecological Solutions to Global Food Security.. *Journal of Ecology* Blog 21/6/2017. <https://jecologyblog.wordpress.com/2017/06/21/special-feature-plant-ecological-solutions-to-global-food-security/>
6. **Gibson, D.J.** 2017. Hierarchy of Hypotheses as an organizing tool for research. Report of a Workshop. *Journal of Ecology* Blog. 26/7/2017. <https://jecologyblog.wordpress.com/2017/07/26/hierarchy-of-hypotheses-as-an-organizing-tool-for-research-report-on-a-workshop/> .

7. **Gibson, D.J.** 2017. Ecologists Brave Snowpocalypse #EAB2017. Journal of Ecology Blog. 18/12/2017. <https://jecologyblog.wordpress.com/2017/12/18/ecologists-brave-snowpocalypse-eab2017/>
8. **Gibson, D.J.** & Baier, A. 2018. Avoiding Loaded Terminology in Ecology. Journal of Ecology Blog. 12/12/2018. <https://jecologyblog.com/2018/12/12/avoiding-loaded-terminology-in-ecology/>
9. **Gibson, D.J.** 2019. Grasslands and Climate Change. Journal of Ecology Blog 3/21/2019. <https://jecologyblog.com/2019/03/21/grasslands-and-climate-change/>
10. **Gibson, D.J.** 2019. #ESA2019 What's Your Theme and Early Career Researcher Challenges. Journal of Ecology Blog 8/29/2019. <https://jecologyblog.com/2019/08/29/esa2019-whats-your-theme-and-early-career-researcher-challenges/>
11. **Gibson, D.J.** 2019. Another Step Towards More Open Science. Journal of Ecology Blog 10/1/2019. <https://jecologyblog.com/2019/10/01/another-step-towards-more-open-science/>
12. **Gibson, D.J.** & P. Thrall. 2020. Plant Ecology and Epidemiology in the Time of a Global Pandemic. Journal of Ecology Blog. 5/15/2020. <https://jecologyblog.com/2020/05/15/plant-ecology-and-epidemiology-in-the-time-of-a-global-pandemic/>
13. **Gibson, D.J.** #BES2020 A Festival of Ecology: Post-Conference Musing. Journal of Ecology Blog 12/21/2020. <https://jecologyblog.com/2020/12/21/bes2020-a-festival-of-ecology-post-conference-musings/>

Figshare:

1. **Gibson, D.**; Shen, Christa; Schwartz, Lauren; Neal, Travis (2014): Light quality reduction by four Amaranthaceae species. <http://dx.doi.org/10.6084/m9.figshare.1124257> Retrieved 15:55, Aug 19, 2015 (GMT)
2. Tyree, Gayle; **Gibson, D.** (2015): The effect of *Andropogon gerardii* ecotypes on species composition and functional trait variation in a prairie community. <http://dx.doi.org/10.6084/m9.figshare.1513785> Retrieved 15:34, Aug 19, 2015 (GMT)
3. **Gibson, D.J.**, Young, B.G., Matthews, J., Franca, L., Schwartz, L.M., Johnson, W.G., Spaunhorst, D.J., Smeda, R.J., Martin, H.R., Norsworthy, J.K., & Steckel, L. (2016). Disturbance and the timing of seedling emergence: *Amaranthus palmeri* across five US States. <https://dx.doi.org/10.6084/m9.figshare.3543344.v1>.
4. **Gibson, D.J.** (2017): Ecology of Japanese Chaff Flower and Research Update. "Ecology and Control of Japanese Chaff Flower - Program and Field Tour" workshop, Barkhausen-Cache River Wetlands Center, Cypress, IL, June 22, 2017. <https://doi.org/10.6084/m9.figshare.5132695.v1>
5. **Gibson, D.J.** (2017): Hierarchy of Hypotheses Presentation. Presentation given at Hierarchy of Hypotheses workshop, Schloss Herrenhausen, Hannover, Germany, July 19-21, 2017. <https://doi.org/10.6084/m9.figshare.5212093.v1>
6. **Gibson, D.J.** Neal, T., Johnson, L., & Baer, S. (2017): What are ecotypes adapted to? Insights from common garden experiments across geographic gradients. Presentation from Ecological Society of America Annual Meeting Aug 9th, 2017, Portland, Oregon. This presentation was in the IGNITE format and part of a session "Multiple Common Garden Experiments for Meeting Restoration Challenges: Difficulties and Potential Challenges." <https://doi.org/10.6084/m9.figshare.5276863.v1>.
7. **Gibson, D.J.** (2017): Forensic Botany. Presentation given to the Southern Illinois Learning in Retirement group, November 15, 2017 at the Dunn-Richmond Center on the campus of Southern Illinois University Carbondale. <https://doi.org/10.6084/m9.figshare.5605624.v1>

8. **Gibson, D.J.** (2018): Grassland communities of barrens and hill prairies. Presentation given at the Illinois Indigenous Plant Symposium, April 14th, 2018 at John A. Logan College, IL.
https://figshare.com/articles/Grassland_communities_of_barrens_and_hill_prairies/6137453.
9. **Gibson, D.J.**, Thapa, S., & C. Benda. 2019. Herbaceous layer response to forest management at Trail of Tears State Forest from 2014 to 2018. <https://doi.org/10.6084/m9.figshare.9345998.v3>
10. **Gibson, D.J.** 2020. The Role of Research Institutions. figshare. Presentation.
<https://doi.org/10.6084/m9.figshare.13349939.v1>
11. **Gibson, D.J.** 2021. Japanese Chaff flower populations grow fast and are maybe evolving. Chaff Flower Summit. University of Illinois Extension. Aug 21 2021.
<https://doi.org/10.6084/m9.figshare.15157989.v1>.

Dryad Datasets:

1. Barber NA, Jones HP, Duvall MR, Wysocki WP, Hansen MJ, **Gibson D.J.** (2016) Data from: Phylogenetic diversity is maintained despite richness losses over time in restored tallgrass prairie plant communities. *Dryad Digital Repository*. <http://dx.doi.org/10.5061/dryad.5m30d>
2. Khalil, M.I., **Gibson, D.J.** & Baer, S.G. (2016) Data from: Phylogenetic diversity reveals hidden patterns related to population source and species pools during restoration. *Dryad Digital Repository*, <http://dx.doi.org/10.5061/dryad.5122j5067>.
3. Khalil, M.I., **Gibson, D.J.** & Baer, S.G. (2019) Data from: Functional response of subordinate species to intraspecific trait variability within dominant species. *Dryad Digital Repository*, <http://dx.doi.org/10.5061/dryad.r0q57k3>
4. Smith, M.,**Gibson, D.J.**, et al. (2019) Data from: Mass ratio effects underlie ecosystem responses to environmental change, v3, *Dryad Digital Repository*, Dataset, <https://doi.org/10.5061/dryad.j3tx95x8w>

Research Reports:

1. **Gibson, D.J.**, & Good, R.E. 1986. Ecosystem fragmentation of oak-pine vegetation in the New Jersey Pinelands: 2nd annual report of the Division of Pinelands Research. Center for Coastal and Environmental Studies, Rutgers University.
2. Matlack, G.R., Good, R.E. & **Gibson, D.J.** 1986. The second survey of current research in the New Jersey Pine Barrens. Center for Coastal and Environmental Studies, Rutgers University.
3. **Gibson, D.J.**, & Looney, P.B. 1990. Vegetation monitoring before and after beach renourishment on Perdido Key. Institute for Coastal and Estuarine Studies, University of West Florida, I.C.E.R. Rep. 01:09-27-90.
4. **Gibson, D.J.** & Looney, P.B. 1991. Vegetation monitoring after beach renourishment on Perdido Key: 1991. Institute for Coastal and Estuarine Studies, University of West Florida, I.C.E.R. Rep. 03:30-09-91.
5. **Gibson, D.J.**, Looney, P.B. & S.R. Mixon. 1992. Vegetation monitoring after beach renourishment on Perdido Key: 1992. Institute for Coastal and Estuarine Studies, University of West Florida, I.C.E.R. Rep. 02:30-09-92.

6. Bittner, R.T. & **Gibson, D.J.** 1993. Distribution and ecology of *Calamagrostis insperata* spp. *insperata* (Swallen) C. Greene in Southern Illinois. Final Report to Illinois Department of Conservation. Wildlife Preservation Fund Project.
7. **Gibson, D.J.**, & Looney, P.B. 1993. Vegetation monitoring after beach nourishment on Perdido Key: 1993. Institute for Coastal and Estuarine Studies, University of West Florida, I.C.E.R. Rep. 03:30-09-93.
8. Roman, C.T., **Gibson, D.J.**, & Art, H.W. 1993. Vegetation inventory and monitoring at barrier island parks. In: Draft Coastal Park Inventory and Monitoring Protocols, Ed. by T. R. Simons. National Park Service, Charlottesville, VA 22903.
9. **Gibson, D.J.** & Ely, J.S. 1994. Vegetation monitoring after beach nourishment on Perdido Key: Final Report submitted to the National Park Service. Institute for Coastal and Estuarine Studies, University of West Florida, I.C.E.R. Rep. 02:09-22-94.
10. Roman, C.T., **Gibson, D.J.**, & Art, H.W. 1995. Vegetation inventory and monitoring at Barrier Island Parks: A Sampling Protocol. In: Simons, T. R.(ed.) Coastal Park Inventory and Monitoring Handbook. Technical Report NPS/SERNCSU/NRTR-95-01, United States Department of the Interior, National Park Service, Atlanta, GA. pp 40-56.
11. Gustafson, D.J., **Gibson, D.J.**, & Nickrent, D.L. 1997. Assessment of baseline genetic data on *Andropogon gerardii* (Big Bluestem), *Sorghastrum nutans* (Indian Grass), and *Dalea purpurea* (Purple Prairie Clover) among remnant and restored Illinois tallgrass mesic prairies and selected grass cultivars. Final report submitted to the Illinois Department of Natural Resources, Natural Heritage Division.
12. Ely, J.S., & **Gibson, D.J.** 1998. The effect of various management regimes on species composition in shale glade communities, Union County, Illinois. Final report submitted to the Illinois Department of Natural Resources, Wildlife Preservation Fund Project. p. 100.
13. Spyreas, G., Benedict, J., & **Gibson, D.J.** 2000. Life History Studies on *Microstegium vimineum*, an invasive exotic in southern Illinois. Final report submitted to the Illinois Department of Natural Resources, Wildlife Preservation Fund Project. p. 34.
14. Benedict, J., Spyreas, G., & **Gibson, D.J.** 2001. Comparative life History Studies on *Microstegium vimineum*, an invasive exotic in southern Illinois. Final report submitted to the Illinois Department of Natural Resources, Wildlife Preservation Fund Project. p. 26.
15. **Gibson, D.J.**, Honu, Y.A.K., Chandy, S., Lees, E., West, N., & Delong, M. 2004. Reproductive biology of *Calamagrostis insperata*. Final report submitted to the Illinois Endangered Species Protection Board. P. 45.
16. Delong, M.K., West, N.M. & **Gibson, D.J.** 2005. Species composition change at Collier Glade (Hardin County), Illinois. Final Report to the Illinois Department of Natural Resources. June 2005. p. 29.
17. **Gibson, D.J.**, & Chandy, S. 2005. Preliminary analysis of vegetation patterns in southern Illinois RNAs Final Report to the US Forest Service, North Central Research Station. Dec 2005. p. 46.
18. Minnis, A.M., Sipes, S.D., & **Gibson, D.J.** 2006. Analysis of Illinois plants in need of conservation – a supplement to the Comprehensive Wildlife Conservation Plan. Final Report to the Illinois Department of Natural Resources. May 31 2006. p. 54.
19. Delong, M.K., & **Gibson, D.J.** 2006. Species composition and metapopulation analysis of three forest opening sites with Shawnee National Forest, Illinois. Final Report for Wildlife Preservation Fund Grant #06-029W, Illinois Department of Natural Resources. August 2006. p. 27.
20. **Gibson, D.J.**, Battaglia, L.L., Inczauskis, J. & Hacker, M. 2006. Inventory of Non-Native Species. Final Report Submitted to the USDA Forest Service, Shawnee National Forest. December 15, 2006. p. 49.
http://opensiuc.lib.siu.edu/pb_reports/1/.

21. **Gibson, D.J.**, Battaglia, L.L., Inczauskis, J. 2008. Invasive Species Survey on Cypress Creek NWR: Final Report. March 28, 2008. P. 74. http://opensiuc.lib.siu.edu/pb_reports/2/.
22. **Gibson, D.J.** & Delong, M. 2008. Bluejoint grass restoration. Final Report Submitted to the USDA Forest Service, Shawnee National Forest. February 19, 2008. p. 33.
23. **Gibson, D.J.**, Baer, S.G., Groninger, J., & M. Whiles. 2010. Statewide Natural Land Management Internship Program Final Report for 2008-2009 Activities to the Illinois Community Clean Energy Foundation. April, 2010. P. 11.
24. **Gibson, D.J.** & L. Schwartz. 2014. Population dynamics of endangered *Iresine rhizomatosa* (Juda's bush). Grant Agreement No.: 13-026W Final Report to Illinois Department of Natural Resources. March 20, 2014. Open-SIUC:
25. **Gibson, D.J.** & K.A. Martinez. 2014. Shawnee National Forest Vegetation Plot Analysis. Final Report, September 30, 2014. Challenge Cost-Share Agreement #09-CS-11090804-028. P. 73.
26. Schwartz, L.M., K.M. Smith, C. Evans, K.L. Gage, D.J. Gibson, & Young, B.G. 2015. Fact Sheet: Ecology and Control of Japanese Chaff Flower (*Achyranthes japonica* (Miq.) Nakai). http://www.rtrcwma.org/Chaff_FactSheet.pdf.
27. Gibson, D.J., Thapa, S., & C. Benda. 2019. Herbaceous layer response to forest management at Trail of Tears State Forest from 2014 to 2018. Final Report submitted to Shawnee RC&D. August 7th, 2019. Available: <https://doi.org/10.6084/m9.figshare.9345998.v3>

Published Reviews:

1. **Gibson, D.J.** 1988. Multivariate Analysis of Ecological Communities, by P.G.N. Digby & R.N. Kempton. *Ecology*, 69:298-299 (book review).
2. **Gibson, D.J.** 1988. Methods in Plant Ecology, 2nd ed., Ed. by P.D. Moore & S.B. Chapman. *American Biology Teacher*, 50:391 (book review).
3. **Gibson, D.J.** 1990. Perspectives in Coastal Dune Management, Ed. by F. van der Meuler, P. D. Jungerius & J. Vines. *Vegetatio*, 86:94-95 (book review).
4. **Gibson, D. J.** 1990. The Greenhouse Effect. Scott Resources, Inc. *American Biology Teacher*, 52:443-444 (video review).
5. **Gibson, D.J.** 1994. British Plant Communities, Volume 3: Grasslands and Montane Communities. Ed. by J.S. Rodwell. Cambridge University Press, Cambridge, U.K. *Bulletin of the Torrey Botanical Club*, 121:379-380 (book review).
6. **Gibson, D.J.** 1995. From coastal wilderness to fruited plain: A history of environmental change in temperate North America from 1500 to the present. By G.G. Whitney. Cambridge University Press, Cambridge, UK. *Bulletin of the Torrey Botanical Club*, 122:156-158 (book review).
7. **Gibson, D.J.** 1995. British Plant Communities, Volume 4: Aquatic communities, swamps and tall-herb fens. Ed. by J.S. Rodwell. Cambridge University Press, Cambridge, U.K. *Bulletin of the Torrey Botanical Club*, 122:321-323 (book review).
8. **Gibson, D.J.** 1998. New Flora of the British Isles, 2nd edition. By C. Stace. Cambridge University Press, Cambridge, U.K. *Journal of the Torrey Botanical Society*, 125: 324-325 (book review).
9. **Gibson, D.J.** 1998. Population Biology of Grasses. Ed. by G.P. Cheplick. Cambridge University Press, Cambridge, U.K. *Ecology*, 79: 2968-2969 (book review).
10. **Gibson, D.J.** 2000. Spatial Pattern Analysis In Plant Ecology. By Mark R. T. Dale. Cambridge University Press, Cambridge and New York. *Quarterly Review of Biology*, 75: 213. (book review).
11. **Gibson, D.J.** 2000. Life, temperature, and the Earth: The self-organizing biosphere. By D. Scharzman. Columbia University Press, New York. *Journal of Vegetation Science*, 11: 614-615 (book review).

12. **Gibson, D.J.** 2001. Orchid Fever: A horticultural tale of love, lust, and lunacy. Eric Hansen. 2000. Methuen, Publishing Ltd., London. *Economic Botany*, 55: 173-174 (book review).
13. **Gibson, D.J.** 2006. Review of Grasslands: Toward a North American Conservation Strategy. David A. Gunthier, Alberto Lafon, Theodore P. Toombs, Jürgen Hoth, and Ed Wiken. Regina, Saskatchewan: Canadian Plains Research Center, and Montreal, Quebec; Commission for Environmental Cooperation, 2005. *Great Plains Research*, 16: 97 (book review)
14. **Gibson, D.J.** 2006. Review of The Tallgrass Restoration Handbook, 2nd edition. Stephen Packard and Cornelia F. Mutel. Island Press, Washington, 2005. *Restoration Ecology*, 14: 167 (book review).
15. **Gibson, D.J.** 2010. Review of Grasslands in Europe of High Nature Value. Ed. By P. Veen, R. Jefferson, J. de Smidt, & J. van der Straaten. KNNV Publishing, The Netherlands. *Environmental Conservation*, 37:223-224 (book review). doi:10.1017/S0376892910000470:
http://journals.cambridge.org/repo_A78EuytQ
16. **Gibson, D.J.** 2011. Review of The Ecology and Management of Prairies in the Central United States. Chris Helzer. 2010. Iowa City: Published for the Nature Conservancy by the University of Iowa Press. *Great Plains Research* 21: 110. (book review).

Published Abstracts:

1. **Gibson, D.J.** 1981. Heavy metal tolerance without the evolution of tolerant races. Bulletin of the British Ecological Society, 81: 245.
2. Gibson, D. J. 1983. Plant spatial patterns and soil heterogeneity relationships in grassland. Bulletin of the British Ecological Society, 14: 163.
3. **Gibson, D.J.** 1985. The role of soil heterogeneity in the control of plant spatial patterns in a dune grassland. Bulletin of the Ecological Society of America, 66 (Supplement): 178.
4. **Gibson, D.J.** 1985. The measurement of root activity in soils using a non-radioactive tracer. Bulletin of the New Jersey Academy of Science, 30: 46.
5. **Gibson, D.J.**, Collins, S.L., & Good, R.E. 1986. Early effects of ecosystem fragmentation on oak-pine vegetation in the New Jersey Pine Barrens. Program of the IVth International Congress of Ecology, 157-158.
6. Collins, S.L., & **Gibson, D.J.** 1987. Effects of fire and disturbance on plant community structure in prairies. Bulletin of the Ecological Society of America, 68 (Supplement): 283-284.
7. **Gibson, D.J.** 1987. Fire effects on tallgrass prairie vegetation. Bulletin of the Ecological Society of America, 68 (Supplement): 310.
8. **Gibson, D.J.**, & Collins, S.L. 1987. Effects of fire and disturbance on plant community structure in tallgrass prairie. Bulletin of the British Ecological Society, 18: 277-278.
9. Matlack, G.R., **Gibson, D.J.**, Collins, S.L., & Good, R.E. 1987. The biological impact of landscape fragmentation in a fire-dominated oak-pine forest. XIV Botanical Congress, Abstracts (Ed. by W. Greuter, B. Zimmer, & H. -D. Behnke), p366.
10. Briggs, J.M., & **Gibson, D.J.** 1988. Geographic Information Systems: Spatial statistics for ecologists. Bulletin of the Ecological Society of America, 69 (Supplement): 81-82.
11. **Gibson, D.J.**, Collins, S.L., & Glenn, S.M. 1988. Patterns of colonization on disturbances in tallgrass prairie. Bulletin of the Ecological Society of America, 69 (Supplement): 144-145.
12. **Gibson, D.J.** 1989. The influence of grazing by small mammals and invertebrates on plant species richness and abundance in tallgrass prairie. Bulletin of the Ecological Society of America, 70 (Supplement): 122.
13. Glenn, S.M., Collins, S.L., & **Gibson, D.J.** 1989. Responses of plant communities to disturbances within the tallgrass prairie landscape. Bulletin of the Ecological Society of America, 71(Supplement):166.

14. Seastedt, T.R., Briggs, J.M., & **Gibson, D.J.** 1989. Fire frequency, plant productivity and nitrogen limitation in tallgrass prairie. *Bulletin of the Ecological Society of America*, 71(Supplement):259.
15. **Gibson, D.J.**, Looney, P.B., & Cousens, M.I. 1990. Succession in coastal barrier island communities over a ten-year period. *Bulletin of the Ecological Society of America*, 71(Supplement):165.
16. **Gibson, D.J.**, Hartnett, D.C. & Merrill, G.L.S. 1991. Fire temperature heterogeneity in contrasting fire prone habitats: Kansas tallgrass prairie and Florida sandhill. *Proceedings of the 17th Tall Timbers Fire Ecology Conference*, Tall Timbers Research Station, Tallahassee, Fl. p. 411.
17. **Gibson, D.J.**, P.B. Looney, & R.L. Hill. 1991. Seasonal variation in vegetation classification of a Florida coastal barrier island. *Bulletin of the Ecological Society of America*, 72(Supplement): 123.
18. Collins, S.L., Glenn, S.M., & **Gibson, D.J.** 1992. Disturbance and diversity in grassland vegetation. *Bulletin of the Ecological Society of America*, 73(Supplement): 144.
19. **Gibson, D.J.** & E.S. Menges. 1992. Demographic studies of the dioecious shrub, Florida rosemary (*Ceratiola ericoides* Michx.), from coastal and inland scrub. *History and Ecology of the Florida scrub*, Abstracts. Archbold Biological Station.
20. Luna, E., **Gibson, D.J.**, & Werth, C.R. 1992. Patterns of genetic diversity in the rare mint *Conradina glabra* and its nearest relative *C. canescens*. *Association of Southeastern Biologists Bulletin*, 39: 86.
21. Bittner, T.R., **Gibson, D.J.**, & Lampa, W. 1993. Vegetation responses to a wetland and prairie restoration at Dragon Lake Forest Preserve, Naperville, Illinois. *Trans. Ill. State Acad. Sci.*, 86 (Supplement): 39.
22. **Gibson, D.J.** & Menges, E.S. 1993. Demographic studies of the dioecious shrub, Florida rosemary (*Ceratiola ericoides* Michx.), from coastal and inland scrub. *Bulletin of the Ecological Society of America*, 74 (Supplement): 249.
23. Hartnett, D.C., Hetrick, B.A.D., Wilson, G.W.T., & **Gibson, D.J.** 1993. Mycorrhizal mediation of competitive interactions among co-occurring tallgrass prairie grasses. *Proceedings of the Ninth North American Conference on Mycorrhizae*.
24. Bittner, R.T., **Gibson, D.J.**, & West, A.K. 1994. Shale batters community restoration underway at Brown Barrens Nature Preserve (Illinois). *Restoration & Management Notes*, 12: 84-85.
25. Ely, J.S. & **Gibson, D.J.** 1994. Vegetation pattern analysis of a barrier island off the Gulf Coast of Florida before and after beach nourishment. *Bulletin of the Ecological Society of America*, 75 (Supplement): 62.
26. Franklin, S.B., **Gibson, D.J.**, Robertson, P.A., & Pohlmann, J.T. 1994. Use of parallel analysis for determining significant factors. *Bulletin of the Ecological Society of America*, 75 (Supplement): 70-71.
27. Franklin, S.B., **Gibson, D.J.**, Robertson, P.A., & Pohlmann, J.T. 1994. Parallel analysis: A method for determining significant factors. *The ASB Bulletin* 41:97.
28. **Gibson, D.J.**, Ely, J.S., & Looney, P.B. 1994. Primary succession on dredge spoil deposited on a northwest Florida coastal barrier island. *Bulletin of the Ecological Society of America*, 75 (Supplement): 75.
29. **Gibson, D.J.** & G. Towne. 1994. Dynamics of Big bluestem (*Andropogon gerardii*) in ungrazed Kansas tallgrass prairie. *Fourteenth North American Prairie Conference: Program and Abstracts*, 26.
30. McCall, R.K., & **Gibson, D.J.** 1994. The regenerating ability of a threatened shale barrens in southern Illinois. *Trans. Ill. Adac. Sci.*, 87(Supplement): 35.
31. Skeel, V.A., & **Gibson, D.J.** 1994. Effects of soil type on the photosynthetic rates of three prairie grasses. *Trans. Ill. Adac. Sci.*, 87(Supplement): 32.
32. Campbell, J.E., **Gibson, D.J.**, & West, K.A. 1995. Survey of exotic seedlings in horse dung. *ASB Bulletin*, 42:138.

33. McCall, R.K., **Gibson, D.J.**, & West, K.A. 1995. A comparison of the soil seed bank from restored and unrestored portions of a threatened shale barren. ASB Bulletin, 42: 137-138.
34. Ely, J.S., & **Gibson, D.J.** 1995. Soil seed bank development along the edge of old- and new-beach three years after dredge spoil deposition on a coastal barrier island. Bulletin of the Ecological Society of America, 76, No 3, (Supplement, Part Three): 323.
35. **Gibson, D.J.**, & Looney, P.B. 1995. The soil seed bank of a coastal barrier island. Bulletin of the Ecological Society of America, 76, No 3, (Supplement, Part Three): 332.
36. Skeel, V.A., & **Gibson, D.J.** 1995. Leaf gas exchange of *Andropogon gerardii* Vitman, *Panicum virgatum* L., and *Sorghastrum nutans* (L.) Nash on restored mine spoil. Bulletin of the Ecological Society of America, 76, No 3, (Supplement, Part Three): 389.
37. Campbell, J.E., Franklin, S.B., **Gibson, D.J.**, & Newman, J.A. 1996. Interpretation of selected variance peaks derived from Two-Term Local Quadrat Variance analyses. ASB Bulletin, 43: 160.
38. Ely, J.S., & **Gibson, D.J.** 1996. The core and satellite species hypothesis - its significance in southern Illinois. Bulletin of the Ecological Society of America, 77, No 3, (Supplement): 129.
39. Ely, J.S., **Gibson, D.J.**, & Heikens, A.L. 1996. The core-satellite species hypothesis in forest openings, southern Illinois. ASB Bulletin, 43: 159-160.
40. **Gibson, D.J.**, Newman, J.A., & Skeel, V.A. 1996. Physiological effects of a fungal endophyte on competitiveness of tall fescue. Bulletin of the Ecological Society of America, 77, No 3, (Supplement): 162.
41. **Gibson, D.J.**, Middleton, B.A., & Saunders, G.W. 1996. The establishment of a long-term field experiment to enhance undergraduate education. Bulletin of the Ecological Society of America, 77, No 3, (Supplement): 162.
42. McCall, R.K., & **Gibson, D.J.** 1996. Microclimatic influences on the growth and distribution of *Sorghastrum nutans* and *Helianthus divaricatus* on southern Illinois loess hill prairies. ASB Bulletin, 43: 130.
43. Dado, R.G., J.A. Newman, D.J. Gibson, M.L. Abner, W. Coleman, and J.L. Sherwin. 1997. Nutritional quality of tall fescue under elevated carbon dioxide. J. Anim. Sci. 75(Supp 1):207 (Abstr.)
44. Ely, J.S., & **Gibson, D.J.** 1997. The effect of fire management upon life history attributes of *Schizachyrium scoparium*, a core species, in a tallgrass prairie and forest openings. Bulletin of the Ecological Society of America, 78, No 4, (Supplement): 84.
45. **Gibson, D.J.**, Middleton, B.A., & Saunders, G.S. 1997. Directed inquiry in ecology instruction: the transition. Bulletin of the Ecological Society of America, 78, No 4, (Supplement): 251.
46. **Gibson, D.J.**, Newman, J.A., Dado, R.G., & Hadlock, T. 1997. Elevated CO₂ effects upon the tall fescue-endophyte system. Bulletin of the Ecological Society of America, 78, No 4, (Supplement): 94.
47. **Gibson, D.J.**, Newman, J.A., Dado, R.G., & Hadlock, T. 1997. Elevated CO₂ effects on the *Festuca arundinacea* endophyte mutualism. British Ecological Society, Winter and Annual General Meeting, Program and Abstracts. p.18.
162. Gustafson, D.J., Nickrent, D.L., & **Gibson, D.J.** 1997. Genetic characterization of *Andropogon gerardii* Vitman. (big bluestem) in the Arkansas Grand Prairie. Bulletin of the Ecological Society of America, 78, No 4, (Supplement): 101.
163. Adams, E., D. J. Gibson, J. S. Ely, D. J. Gustafson, D. McEwen and T. Evans. 1998. Vegetation recovery over an 18 year period at a recreation facility. Abstract in: ASB Bulletin 45(2): 101.
164. Ely, J.S., & **Gibson, D.J.** 1998. The effects of restoration management upon species composition and succession in shale glade, Illinois. Ecological Society of America, 83rd Annual Meeting. Abstracts: 164.

165. **Gibson, D.J.**, Newman, J.A., Dado, R.G., Hickman, A., & M. Abner. 1998. Nitrogen effects upon the tall fescue-endophyte mutualism under elevated CO₂. Ecological Society of America, 83rd Annual Meeting. Abstracts: 61
166. Hickman, A., Newman, J.A., **Gibson, D.J.**, Dado, R.G., & M. Abner. 1998. Effects of elevated CO₂ on the transmission of barley yellow dwarf virus to tall fescue when vectored by the bird cherry-oat aphid. Ecological Society of America, 83rd Annual Meeting. Abstracts: 70.
167. Mathis, M., Middleton, B.A., **Gibson, D.J.**, Lumpe, A., Kantz, K., Bhattacharyya, S., & G.W. Saunders. 1998. Improving ecological literacy through the use of inquiry teaching approaches in long-term succession plots. Ecological Society of America, 83rd Annual Meeting. Abstracts: 192.
168. Abner, M.L., Dado R.G., Newman, J.A., **Gibson, D.J.** & A. Hickman. 1998. Effects of elevated carbon dioxide and nitrogen fertilization on tall fescue nutritional quality. J. Anim. Sci. 76(Supp 1):200 (Abstr.).
169. Clark, T.A., Ely, J.S., **Gibson, D.J.**, & West, K.A. 1999. The effects of management treatments on patch dynamics in a shale glade. Transactions of the Illinois State Academy of Science, 90 (supplement): 69.
170. Ely, J.S., & **Gibson, D.J.**, 1999. The flora of shale glades, Union County, Illinois. Transactions of the Illinois State Academy of Science, 90 (supplement): 49.
171. **Gibson, D.J.**, Adams, E.D., Ely, J.S., Gustafson, D.J., McEwen, D.N., & Evans, T. 1999. Eighteen years of herbaceous layer recovery of a recreation area in an oak-hickory forest. Ecological Society of America, 84th Annual Meeting, Abstracts, 253.
172. **Gibson, D.J.**, & Ely, J.S. 1999. Using sample dissimilarities to measure community heterogeneity: unacceptable sensitivity of the statistically correct method. British Ecological Society, Annual Symposium, Ecological Consequences of Habitat Heterogeneity, University of Sussex, UK. Programme & Abstracts: 26.
173. **Gibson, D.J.**, Middleton, B.A., Lumpe, A., Mathis, M. Brandon, A. & Bhattacharyya, S. 1999. Institutionalization of inquiry-based ecology labs into the life science curriculum. Transactions of the Illinois State Academy of Science, 90 (supplement): 62.
174. **Gibson, D.J.** Newman, J.A., Dado, R.G., Hickman, A., & Abner, M. 1999. Nitrogen effects on the response of the tall-fescue (*Festuca arundinacea*) – endophyte (*Neotyphodium coenophialum*) mutualism to elevated CO₂. British Ecological Society, Winter & Annual General Meeting. Programme & Abstract: 48.
175. Gustafson, D.J., **Gibson, D.J.**, Nickrent, D.L. 1999. Competitive relationships among populations and cultivars of a core prairie species, *Andropogon gerardii*. XVI International Botanical Congress – Abstracts: 427.
176. Johnson, S.W., Ely, J.S., Middleton, B.A., & **Gibson, D.J.** 1999. Population dynamics of small mammals in relation to plant succession. Transactions of the Illinois State Academy of Science, 90 (supplement): 78.
177. Mathis, M.J., Middleton, B.A., & **Gibson, D.J.** 1999. Herbivory and old-field succession. I. The seed bank. Transactions of the Illinois State Academy of Science, 90 (supplement): 47.
178. Mathis, M.J., Middleton, B.A., & **Gibson, D.J.** 1999. Herbivory and old-field succession. I. The seed bank. 1999. Ecological Society of America, 84th Annual Meeting, Abstracts, 142.
179. Ramage, C.A., Ely, J.S., Middleton, B.A., & **Gibson, D.J.** 1999. Effects of old field succession on crayfish distribution patterns. Transactions of the Illinois State Academy of Science, 90 (supplement): 78.
180. Sebby, H.A., Ely, J.S., **Gibson, D.J.**, & Middleton, B.A. 1999. Early competition between native and non-native grasses. Transactions of the Illinois State Academy of Science, 90 (supplement): 68.

181. Spyreas, G., & **Gibson, D.J.** 1999. The effects of fungal endophytes in grasses on community diversity. Transactions of the Illinois State Academy of Science, 90 (supplement): 47.
182. Brandon, A. & **Gibson, D.J.** 2000. Effects of *Lespedeza cuneata*, an introduced species, on soil nutrient status in the natural landscape. ASB Bulletin 47: 210.
183. Emmert, S.Y., Middleton, B.A., & **Gibson, D.J.** 2000. Effects of soil nutrients and pH on species richness in a lowland old field in Carbondale, IL. Transactions of the Illinois State Academy of Science, 93 (supplement): 83.
184. Spyreas, G. & **Gibson, D.J.** 2000. A test of the relationship between endophyte infection level and species diversity in an abandoned tall fescue pasture. ASB Bulletin 47: 212.
185. Benedict, J., Spyreas, G., & **Gibson, D.J.** 2001. Survivorship and individual attributes of *Microstegium vimineum* in relation to environmental variables. Transactions of the Illinois State Academy of Science, 94 (supplement): 52.
186. **Gibson, D.J.**, & Taylor, I. 2001. Morphological variation in populations of *Festuca arundinacea* in England. Ecological Society of America, 86th Annual Meeting, Abstracts, 282.
187. Ely, J.S., **Gibson, D.J.**, & Connolly, J. 2001. Multispecies competition among core, intermediate, and satellite species: A new approach. Ecological Society of America, 86th Annual Meeting, Abstracts, 276.
188. Chandy, S., **Gibson, D.J.**, & Robertson, P.A. 2002. Vegetation patterns at different scales in the Shawnee National Forest. Transactions of the Illinois State Academy of Science, 95 (supplement): 54.
189. **Gibson, D.J.**, Spyreas, G., & Benedict, J. 2002. Life history of *Microstegium vimineum* (Poaceae), an invasive exotic in southern Illinois. Ecological Society of America, 87th Annual Meeting, Abstracts, 355.
190. Toler, J.J.W., **Gibson, D.J.**, Ebbs, S.D. & Ferreira, J. 2003. Allelopathic effects of an exotic perennial *Lespedeza cuneata* on plants in a successional old field. 95th Annual Meeting, Transactions of the Illinois State Academy of Science, Supplement to Vol 96: 48.
191. Chandy, S., **Gibson, D.J.**, & Robertson, P.A. 2003. Partitioning of species diversity and vegetation patterns at different scales in the Shawnee National Forest. Ecological Society of America, 88th Annual Meeting, Abstracts, 61.
192. **Gibson, D.J.**, Middleton, B.A., Foster, K., Honu, Y.A.K., Hoyer, E., & Mathis, M. 2003. Core and satellite species dynamics in response to disturbance and fertilization during early old-field succession. Ecological Society of America, 88th Annual Meeting, Abstracts, 121.
193. Lees, E., **Gibson, D.J.**, Honu, Y.A.K., Chandy, S., & West, N. 2004. Ex-situ growth of the Illinois endangered *Calamagrostis porteri* ssp. *insperata*. Transactions of the Illinois State Academy of Science, 97 (supplement): 48 (Abstract).
194. Chandy, S., **D.J. Gibson** & P.A. Robertson. 2004. Additive partitioning of diversity through spatial scales and short temporal span across the Shawnee National Forest, Illinois. Ecological Society of America, 89th Annual Meeting, Abstracts, 89.
195. Heatherly, T, N., Collins, S.L., Whiles, M.R., **Gibson, D.J.**, Huryn, A.D., Jackson, J.K., Hall, R.O. & Palmer, M.A.. 2004. Metacommunity structure in regional assemblages of stream macroinvertebrates. Ecological Society of America, 89th Annual Meeting, Abstracts, 213.
196. Honu, Y.A.K. & **Gibson, D.J.** 2004. Response of exotic and native species along edge-to-interior gradients in the Shawnee National Forest, southern Illinois, USA. Ecological Society of America, 89th Annual Meeting, Abstracts, 228.
197. West, N.M. & **Gibson, D.J.** 2004. Analysis of microhabitats occupied by exotic species in Illinois shale barrens. Ecological Society of America, 89th Annual Meeting, Abstracts, 540.
198. Brophy, C., **Gibson, D.J.**, Wayne, P.M. & Connolly, J.. 2006. Modelling reproductive allocation in *Sinapis arvensis*. Ecological Society of America, 91st, Annual Meeting, Abstracts, 48.

199. Delong, M. K., Heatherly, T., Whiles, M.R., **Gibson, D.J.**, Collins, S.L., Huryn A.D., Jackson, J.K. & Palmer, M.A. 2006. Modeling of patch occupancy patterns in stream insect metacommunities: toward an understanding of factors influencing the distribution of stream insects. Ecological Society of America, 91st, Annual Meeting, Abstracts, 93.
200. **Gibson, D.J.**, Wood, A.J., Young B.G., Connolly, J., Kirwan L., Millar K. & Ely, J. 2006. Quantifying multispecies interactions between crops (soybean: *Glycine max*) and weeds: a new approach. Ecological Society of America, 91st, Annual Meeting, Abstracts, 135.
201. Hansen, M. J., & **Gibson, D.J.** 2006. Is ecological restoration successful? An assessment of a prairie restoration in northern Illinois, US. Ecological Society of America, 91st, Annual Meeting, Abstracts, 155.
202. West, N. M., **Gibson, D.J.** & Minchin, P.R. 2006. Exotic species microhabitats in Illinois shale barrens. Ecological Society of America, 91st, Annual Meeting, Abstracts, 417.
203. Delong, M.K. & Gibson, D.J. 2007. Vascular plant metapopulation dynamics and metacommunity structure within prairie-like forest openings in southern Illinois. Ecological Society of America, 92nd, Annual Meeting, Society for Ecological Restoration 18th International Conference, Abstracts. ESA Bulletin, Supplement. DOI: 10.1890/0012-9623(2008)89[17a:AMA]2.0.CO;2
204. Inczauskis, J.R., Hacker, M.S., Battaglia, L.L. & Gibson, D.J. 2007. An exotic species database for determining the distribution of exotic plants in southern Illinois. Ecological Society of America, 92nd, Annual Meeting, Society for Ecological Restoration 18th International Conference, Abstracts. ESA Bulletin, Supplement. DOI: 10.1890/0012-9623(2008)89[17a:AMA]2.0.CO;2.
205. Lambert, A.M., Baer, S.G., & Gibson, D.J. 2007. Physiology of dominant grasses in prairie restoration: the effect of population seed source of plant performance. Ecological Society of America, 92nd, Annual Meeting, Society for Ecological Restoration 18th International Conference, Abstracts. ESA Bulletin, Supplement. DOI: 10.1890/0012-9623(2008)89[17a:AMA]2.0.CO;2
206. Brophy, C., D.J. Gibson, & Connolly, J. 2008. Statistical issues in analyzing the relationship between reproductive output and size. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. Abstracts: <http://eco.confex.com/eco/2008/techprogram/>.
207. Gage, K.L., Gibson, D.J., Matthews, J.L., Young, B.G., Owen, M.D., Wilson, R.G., Weller, S.C., Johnson, W.G., Shaw, D.R., & Jordan, D.L. 2008. The effect of glyphosate-resistant cropping systems on management of weed species diversity and herbicide resistance. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. Abstracts: <http://eco.confex.com/eco/2008/techprogram/>.
208. Lambert, A.M., S.G. Baer, & Gibson, D.J. 2008. Intraspecific variation in physiology and productivity of dominant C₄ grass species in a prairie restoration. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. Abstracts: <http://eco.confex.com/eco/2008/techprogram/>.
209. Reed, L.K., S.G. Baer, & Gibson, D.J. 2008. Competitive equivalency of cultivar and non-cultivar dominant prairie grasses in an experimental restoration. Ecological Society of America, 93rd Annual Meeting. August 3rd – 8th, 2008, Milwaukee, Wi. Abstracts: <http://eco.confex.com/eco/2008/techprogram/>.
210. Reed, L.K., S.G. Baer, & Gibson, D.J. 2009. Competitive equivalency of cultivar and non-cultivar dominant prairie grasses in an experimental restoration. Ecological Society of America, 94rd Annual Meeting. August 2nd – 7th, 2009, Albuquerque, NM Abstracts: <http://eco.confex.com/eco/2009/techprogram/P19454.HTM>.
211. Gage, K.L., D.J. Gibson, & B.G. Young. Survival and reproduction of glyphosate (GR) and – susceptible (GS) *Conyza Canadensis* (L.) Conq. (Asteraceae). Ecological Society of America, 94rd

- Annual Meeting. August 2nd – 7th, 2009, Albuquerque, NM Abstracts:
<http://eco.confex.com/eco/2009/techprogram/P18473.HTM> .
212. Donatelli, J.M., **Gibson, D.J.**, Renzaglia, K., Henson, H., Mumba, F., Sipes, S., & K. Schachel. 2010. Bridging the gap, building the future: STEM fellows teaching global change in primary education. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA.
<http://eco.confex.com/eco/2010/techprogram/P24279.HTM>
 213. **Gibson, D.J.**, Allstadt, A., & S.G. Baer. 2010. Effects of genetic diversity of foundation species on community diversity: predictions tested by simulation modelling. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA.
<http://eco.confex.com/eco/2010/techprogram/P23729.HTM>
 214. Jones, D., Gustafson, D.J., **Gibson, D.J.**, & S.G. Baer. 2010. *Chamaecrista fasciculata* and *Silphium integrifolium* show divergence in genetic structure when grown in a background of wild collected versus cultivars of the dominant grasses. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA. <http://eco.confex.com/eco/2010/techprogram/P25105.HTM>
 215. Schmale, G.D., Battaglia, L.L., & **D.J. Gibson**. 2010. Limitations of natural history data in a revisitation study of non-native invasive plants. Ecological Society of America, 95th Annual Meeting. August 2nd – 6th, 2010, Pittsburgh, PA. <http://eco.confex.com/eco/2010/techprogram/P25734.HTM>
 215. Ekmekci, A., Aqazade, M., Papakonstantinou, A., Orcan, B., Catanese, D., Callard, C., Cerosaletti, C., Daley, M., Rushton, G., Reid, J., **Gibson, D.**, Renzaglia, K., McGraw, R., Sheppard, P., Head, M., Harel, G., & Soto, O. 2022. The associations of social and motivational factors to science and mathematics teacher retention. *Proceedings of Society for Information Technology & Teacher Education International Conference (2022)*. San Diego, CA: Association for the Advancement of Computing in Education. Retrieved December 7, 2022 from <https://www.learntechlib.org/primary/p/220830/>.
 216. Ekmekci, A., Aqazade, M., Callard, C., **Gibson, D.**, Rushton, G., & McGraw, R. The role of self-efficacy, leadership, school-work environment, diversity beliefs, and social network in teacher retention. *Proceedings of the 44th Conference of the North American Chapter of the Psychology of Mathematics Education*. Philadelphia, PA: PME.

Unpublished Theses:

1. **Gibson, D.J.** 1979. Environmental reconstruction based on the identification of plant macrofossils from the Quaternary river gravels at Brook, Isle of Wight. Honours Thesis, University of Reading.
2. **Gibson, D.J.** 1981. Plant communities and the potential for ecotypic differentiation on lead and zinc mine spoils in NE Oklahoma. Masters Thesis, University of Oklahoma.
3. **Gibson, D.J.** 1984. Small-scale patterns and soil heterogeneity in grassland. Ph.D. Dissertation, University of Wales.

Manuscripts in Review or Revision:

1. Ahmed, S., Wood, A.J., Gage, K.L. Da Cunha Leme Filho, J.F., & **D.J. Gibson**. Accumulation of trigonelline in the leaves of *Cannabis sativa* L. in response to water-deficit stress. *J Hort. Res.*, in review. Preprint at: <https://www.preprints.org/manuscript/202504.0637/v1>
2. Cheplick, G.P. & **Gibson, D.J.** Population and ecotypic differentiation in Poaceae: Past and present approaches. *The Biological Review*, in review.

3. Li, K., Wang, Y., Wang, X., Foster, B., Wood, A., **Gibson, D.J.**, & G. Li. Increasing precipitation exacerbates the negative effect of nitrogen deposition on diversity of semi-arid steppe through the growing season. *Journal of Plant Ecology*, In Review.
4. Ren, Z., **D.J. Gibson**. Et al., Intra- and inter-specific ecological impacts vary across a gradient of an invasive species in a mixed grass prairie. In revision. *Ecology & Evolution*.
5. Sytsma, J., M. Galliard, T. Hefley, S. G. Baer, **D.J. Gibson**, H. Tetreault, B. Maricle, & E. Hartung & L.C. Johnson. Grass ecotypes across the US Great Plains rainfall gradient show decadal evidence of local adaptation and reshape plant communities. In review. *New Phytologist*.
6. Sytsma, J., M. Galliard, K. Fogarty, K. Howe, B.J.S.C. Olson, S. G. Baer, **D.J. Gibson**, B. Maricle, & E. Hartung & L.C. Johnson. Taking genomics outdoors in the US Great Plains: Linking local adaptation, trait variation, and gene expression in grass ecotypes across a rainfall gradient. In review. *Molecular Ecology*.
7. Thapa, S., **Gibson, D.J.**, & R. Li. Forest transition under climate pressure: Land Use Land Cover (LULC) change in the Greater Shawnee National Forest (GSNF). In review. *Remote Sensing*. Preprint: 2025, 2025120079. <https://doi.org/10.20944/preprints202512.0079.v1>

Manuscripts in Preparation:

1. Adeyemi, O., **Gibson, D.J.**, Schoonover, J., Six, J., & A. Sadeghpour. In prep. Retaining wheat cover crop residue creates hotspots for nitrous oxide emissions. For *Science of the Total Environment* or *Geoderma*.
2. Eduardo-Palomino, F., Ren, Z., **Gibson, D.J.**, Gage, K.L., Grininger, J.W., Huarasa, Y., Llanos, J., & S.A. Walters. Altiplano grasslands inferno: The consequences of uncontrolled fires on plant abundance and phylogenetic diversity. For *Fire Ecology*.

Service:

1. Professional Society Offices Held.

Editor. *Journal of Ecology*, British Ecological Society. (Associate Editor 1992-1998; Senior Editor 1998- 2012, 2020-2022, Executive Editor 2013-2019).

British Ecological Society, Publications (formerly Journals) Committee Member. 1998 – 2019.

Subject Matter Editor, Plant Communities and Vegetation Analysis. *Bulletin of the Torrey Botanical Club*, Torrey Botanical Club (1991- 1996).

Editorial Board. *Journal of Vegetation Science*. (1997 – present).

Editorial Board. *Sustainability* (2017-).

2. Consultation and Area Service.

Green Earth, Inc. A not-for-profit environmental group dedicated to land conservation in the Carbondale area (Board Member 1999 – 2020, Vice-President 2004-7, 2011 – 2012, President 2013 - 2015).

Carbondale Park District, Marberry Arboretum Advisory Committee (2003- 2005).

Consultant, C-K Associates Environmental and Engineering Consultants, Inc., Louisiana - Responded to a request for statements of qualifications for professional engineering services to implement the Hurricane

Opal poststorm beach and dune recovery strategic management plan solicited by the Florida, Department of Environmental Protection (1996).
External review of PhD dissertation, La Trobe University, Australia (1996).
Illinois Endangered Species Protection Board Member (2023 -).
Illinois Nonnative Species Council. Executive Board Member (2021 -).
Memphis University: Letter of evaluation for Dr. Scott Franklin's dossier for promotion to Associate Professor. 2002.
National Park Service. Development of a Protocol for Vegetation Monitoring of Atlantic and Gulf Coast Parks (1993).
Nomination Letter on behalf of Dr. Tom Bragg, University of Omaha, Award for Distinguished Research of Creative Activity. 1996 & 1999.
Nomination Letter on behalf of Dr. Brian McCarthy, University of Ohio, Award for Distinguished Researcher, 1998 & 2000.
University of Georgia: Letter of evaluation for Dr. Chris Peterson's dossier for promotion to Associate Professor. 2002.
University of Massachusetts: Letter of evaluation for Dr. Peter Alpert's dossier for promotion to Full Professor. 1999.
Wichita State University: Letter of evaluation for Dr. Gregory Houseman's dossier for promotion to Full Professor. 2020.
Poster Judge, SIUC University Womens Professional Advancement, "Celebrating Scholarship Through Posters". 1996.
Science Fair Judge, Giant City High School. 1996 – 1998.
Textbook review of Environmental Science: A Global Concern, 3/e for Wm. C. Brown Publishers (1993-4).

3. Professional Society Service.

Manuscripts reviewed for the following journals (in addition to those reviewed as editor of *Bulletin of the Torrey Botanical Club*, *Journal of Ecology*, *Journal of Vegetation Science*, and *Sustainability*):

Annals of the Missouri Botanical Garden
American Journal of Botany
American Midland Naturalist
Biological Invasions
BioScience
Biotropica
Canadian Journal of Botany
Conservation Biology
Global Ecology & Biogeography
Ecology
Ecology Letters
Ecoscience
Journal of Applied Ecology
Journal of Environmental Quality
Methods in Ecology and Evolution
Natural Areas Journal
Northwestern Naturalist (Guest editor, 2009).

Plant Ecology
Plants
Prairie Naturalist
Restoration Ecology
Sustainability
Tall Timbers Fire Ecology Conference Proceedings
Transactions of the Wisconsin Academy of Sciences
Vegetatio

Research proposals reviewed for the following organizations:

United States Department of Agriculture
National Science Foundation (at least 2 proposals per year since 1992).
Fonds de la Recherche Scientifique-FNRS, Belgium (2015- present).

4. Major University Service or Activity.

UNIVERSITY COMMITTEES

Core Curriculum Executive Council (2020 - 2023).
Director, Center for International Education Search Committee (2017).
Provost and Vice Chancellor for Academic Affairs Search Committee (2011).
Excellence Through Commitment Awards Program, University-level Outstanding Scholar Award Selection Committee (2009 – 2011, 2016, Committee Chair 2019).
Judicial Review Board (2010 – 2012).
Master's Fellowship Panel (1995 – 1998).
Teaching Excellence in Science and Mathematics (1998 – 2002).
Research Development and Administration Faculty Development Review Committee for Biological Sciences (1999 – 2001, 2008).
Teacher Education Advisory Committee (1999 – 2002).

COLLEGE OF SCIENCE COMMITTEES

Outstanding Researcher Award Committee (1995 – 2003, 2007- (Chair 2010)
College Curriculum Committee (1997 – 2003 (excused Spring 1999 because of sabbatical leave). Committee Chair 2000-2001).
College Promotion and Tenure Committee (2001-2004, 2011 - 2022).
Life Science Task Force Committee (2010)
Weed Science position selection committee (2014)

DEPARTMENT SERVICE

Plant Biology Program Coordinator (2019-2022)
Plant Developmental Biology Search Committee Chair (2019)
Acting Chair, Search Committee Chair (2016)
Assistant Chair (2004 - 2008).

Awards/Graduate Program Committee (2002 – 2004, 2006)
Curriculum Committee (1992, 1995 Chair in Spring 1994, ex-officio 1999)
Director of Graduate Studies (2011 - 2023).
Evaluation and Awards Committee (1992)
Planning Committee (1994 – 1995, 1999, 2002, 2004-2010, Chair, Fall 1996 – Spring 1997, Chair Fall 2001)
Graduate Program Committee, Chair. (2002)
Graduation/Convocation (2001)
Greenhouse and Growth Chamber Committee (1998, 2017-2019)
Ecosystem Ecologist search committee, Chair (2003).
External Chair search committee (2000)
Conservation Biologist search committee (2000-2001)
Safety/Equipment/Space Committee (2004-2005).
Search Committee – systematist (2004 – 2005).
Space Committee (2001- 2002, 2005, 2009-2010)
Ad-hoc committee to determine criteria for a search for an External Chair (1999)
Ad-hoc committee to formulate recommendations regarding a potential merger between the Departments of Plant Biology and Zoology (1998).
Ad-hoc committee to formulate policy recommendations regarding internships for graduate students (1995).
Ad-hoc committee to plan PLB 337 Ecology Field Lab (1993)
Ad-hoc committee to determine criteria for Plant Molecular Physiologist position (1993)
Ad-hoc Plant Biology Computer Lab Committee (1993)
Department of Zoology, Quantitative Ecologist search committee (2000).
Wetlands Biologist Search Committee (2002).