

**DAVID GLENN JENKINS**

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**EDUCATION**

Ph.D. Biology (Ecology), Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA 1990  
M.S. Zoology, Virginia Tech, Blacksburg, VA 1986  
B.S. Environmental Science, Purdue University, West Lafayette, IN 1980  
including 1 semester aboard SEA's RV *Westward*, W42, 1978

**EMPLOYMENT**

2003-present: Associate / full Professor, Dept. of Biology, University of Central Florida  
1993-2003: Assistant / Associate Professor, Biology Dept., University of Illinois at Springfield  
1990-1993: Assistant Professor, Dept. of Biol. Sciences, Salisbury University  
1983-1990: GRA, GTA, Project Assistant, Teaching Associate, Virginia Tech  
1980-1983: Scientist, Life Systems, Inc., Cleveland, OH

**OTHER POSITIONS / HONORS / NOTES**

2013-present: Research Affiliate, Archbold Biological Station  
2009 UCF Teaching Incentive Program award  
2003-present: James and Annie Ying Eminent Scholar in Biology  
2003 Erdős number = 4, thanks to Keith Miller  
2001-2003: Visiting scientist, Discovery Bay Marine Lab, University of the West Indies, Dec-Jan 2001-2, and Dec-Jan 2002-3)  
2000: Mentor, Woodrow Wilson National Fellowship Foundation Summer Biology Institute, Princeton, NJ.  
1998-2001: University Scholar, University of Illinois  
1996-1997: Summer Faculty Fellow, NASA, Cape Canaveral, FL

**GENERAL RESEARCH INTERESTS**

- Community assembly & dispersal as drivers of diversity, including invasions
- Metacommunity structure & function, in time & space, up to biogeographical scales
- Application of the above to habitat conservation and preservation efforts
- Macroecology, including allometric scaling of NPP and our appropriation of it
- Other fun ideas

## RESEARCH IN THE NEWS

- [Thief ants steal – and eat – the young of other ants, decimating their populations.](#) 2020.
- [Mosquitoes push northern limits with time-capsule eggs to survive winters.](#) 2019.
- [Hot on the trail of the Asian tiger mosquito.](#) 2014.
- [Earth Microbes May Contaminate the Search for Life on Mars.](#) 2010.
- [Midwest Wetlands Almost Gone But May Still Have Most Species.](#) 2003.
- [Green Strategy for Water Flea?](#) 1998. *Science* 281:39.

## PEER-REVIEWED PUBLICATIONS

[letters denote works in progress, numbers denote papers in press or published]

- a) Bogotá-Gregory, J, L Ohyama, DG Jenkins, A Acosta-Santos, E Agudelo. Fish assemblages and water chemistry in the Andean-Amazonian transition zone reflect local land cover and altitude rather than upstream conditions. **In revision for** *Freshwater Biology*.
  - b) other works of my own lunacy or with others as first authors
1. Hart, JD, A Pandolfi, T Jones, DG Jenkins. 2024. Ground-based pyrethroid adulticides reduce mosquitoes but not nontarget insects in Central Florida. *J. American Mosquito Control Assoc.* early access at <https://is.gd/z2Brk>.
  2. Ohyama, L, J Bogotá-Gregory, DG Jenkins. 2024. Peak beta diversity occurs at regional spatial grains. *Frontiers of Biogeography*. 17:1-11.
  3. Bogota-Gregory, JD, DG Jenkins, A Acosta-Santos, E Agudelo Córdoba. 2024. Fish diversity of Colombian Andes-Amazon streams at the end of conflict is a reference for conservation before increased land use. *Ecology and Evolution*. 14, e11046.
  4. Bevan, HR, DG Jenkins, E Suarez, TS Campbell. 2024. Nile monitor distribution models to aid regional mitigation efforts. *J. Herpetology* 58, 115329.
  5. DG Jenkins, HR Bevan, W Chen, JD Hart, A Lindsay, L Macamo, M Negash, L Ohyama, A Pandolfi, & G Zaragoza. 2024. Biogeography of the world’s worst invasive species has spatially-biased knowledge gaps but is predictable. *Frontiers of Biogeography* 16.2, e61681.
  6. Guo, Y, EH Boughton, S Bohlman, C Bernacchi, PJ Bohlen, R Boughton, E DeLucia, JE Fauth, N Gomez-Casanovas, DG Jenkins, G Lollis, RS Miller, PF Quintana-Ascencio, G Sonnier, J Sparks, HM Swain, J Qiu. 2023. Grassland intensification effects cascade to alter multifunctionality of wetlands within metaecosystems. *Nature Communications* 14:8267.
  7. Bogotá-Gregory, J, DG Jenkins, F Lima, A Magurran, W Crampton. 2023. Geomorphological habitat type drives variation in temporal species turnover but not temporal nestedness in Amazonian fish assemblages. *Oikos* 11:e09967.
  8. Hart, JD, DG Jenkins. 2023. Experimental disturbance and productivity gradients drive community diversity in aquatic mesocosms. *Ecology & Evolution* 13:e10049.
  9. Will, I, S Linehan, DG Jenkins, C Debekker. 2023. Natural history and ecological effects on the establishment and fate of Florida carpenter ant cadavers infected by the parasitic manipulator *Ophiocordyceps camponoti-floridani*. *Functional Ecology* 37:886-899.

10. Jenkins, DG, K-H Erb, H Haberl. 2022. Socio-ecological predictors of global patterns in human appropriation of net primary production. *Ecological Indicators* 142:109249.
11. Lomeu, A, A Shukla, S Shukla, G Kiker, C-L Wu, GS Hendricks, EH Boughton, R Sishodia, AC Guzha, HM Swain, PJ Bohlen, DG Jenkins, JE Fauth. 2022. Using biodiversity response for prioritizing participants and service provisions in a payment-for-water-storage program in the Everglades basin. *J. Hydrology* 609:127618.
12. Li, H, EH Boughton, DG Jenkins, G Sonnier, PF Quintana-Ascencio. 2021. Multiple spatial scales affect direct and indirect interactions between a non-native and a native species. *Plant Ecology* 222:1335–1346.
13. Jenkins DG, EH Boughton, AJ Bohonak, RF Noss, MA Simovich, ET Bauder. 2021. Indicator-species and coarse-filter approaches in conservation appear insufficient alone. *Global Ecology & Conservation* 28:e01667.
14. Jenkins, DG, L Ohyama, F López-Borghesi, JD Hart, JD Bogotá-Gregory, RM Rautsaw, V Correa Roldán, K Guilfoyle, A Jarvis, J Loch, K Mercier, O Myers, R Shaw, D Volk, AM Bard. 2021. Biogeography and predictors of wildlife killed on roads at peninsular Florida State Parks. *Ecology & Evolution* 11:9049-9061.
15. Bogotá-Gregory, JD, FCT Lima, SB Correa, C Silva-Oliveira, DG Jenkins, FR Ribeiro, NR Lovejoy, RE Reis, WGR Crampton. 2020. Biogeochemical water type influences community composition, species richness, and biomass in megadiverse Amazonian fish assemblages. *Scientific Reports* 10:15349.
16. Sonnier, G, P Quintana-Ascencio, P Bohlen, J Fauth, DG Jenkins, E Boughton. 2020. Pasture management, grazing, and fire interact to determine wetland provisioning in a subtropical agroecosystem. *Ecosphere*. 11:e03209.
17. Steele CH, King JR, Boughton EH, Jenkins D. 2020. Distribution of the red imported fire ant *Solenopsis invicta* (Hymenoptera: Formicidae) in central Florida pastures. *Environmental Entomology*. 49:956-962.
18. Ohyama, L, J King, DG Jenkins. 2020. Are tiny subterranean ants top predators affecting aboveground ant communities? *Ecology*. 101:e03084.
19. Jenkins, DG, H Haberl, K-H Erb, AL Nevai. 2020. Global human “predation” on plant growth and biomass. *Global Ecology & Biogeography* 29:1052-1064.
20. Jenkins, DG and PF Quintana-Ascencio. 2020. A solution to minimum sample size for regressions. *PLOS One* e229345. *\*a Web of Science Highly Cited paper\**
21. Medley, K, K Westby, DG Jenkins. 2019. Rapid adaptation to novel climate at the northern range edge of the invasive Asian tiger mosquito *Aedes albopictus*: a moving target. *J. Applied Ecology* 56:2518-2527.
22. Bevan, H, DG Jenkins, T Campbell. 2019. From pet to pest? Differences in ensemble SDM predictions for an exotic reptile using both native and nonnative presence data. *Frontiers in Biogeography* 11.2: e42596 <https://doi.org/10.21425/F5FBG42596>
23. Boughton, EH, PF Quintana-Ascencio, DG Jenkins, PJ Bohlen, JE Fauth, A Engel, G Hendricks, G Kiker, S Shukla, HM Swain. 2019. Tradeoffs and synergies in a payment-for-ecosystem services program on ranchlands in the Everglades headwaters. *Ecosphere*. 10: e02728
24. Ohyama, L, J King, DG Jenkins. 2018. Diversity and distribution of *Solenopsis* (Hymenoptera: Formicidae) thief ants belowground. *Myrmecological News* 27:47-57.

25. Schroeder, PJ and DG Jenkins. 2018. How robust are popular beta diversity indices to sampling error? *Ecosphere* 9:e02100.
26. Ho, J, EH Boughton, DG Jenkins, G Sonnier, PJ Bohlen, LG Chambers. 2018. Ranching practices interactively affect soil nutrients in subtropical wetlands. *Agriculture, Ecosystems & Environment*. 254:130-137.
27. Pierre. SM, PF Quintana-Ascencio, EH Boughton, and DG Jenkins. 2017. Dispersal and local environment affect the spread of an invasive apple snail (*Pomacea maculata*) in Florida, USA. *Biological Invasions* <https://doi.org/10.1007/s10530-017-1474-5>
28. Jenkins, DG and S Pierce. 2017. General allometric scaling of net primary production agrees with plant adaptive strategy theory and has tipping points. *J. Ecology* 105:1094–1104.
29. Carman, K and DG Jenkins. 2016. Comparing diversity to flower-bee interaction networks reveals unsuccessful foraging of native bees in disturbed habitats. *Biological Conservation* 202:110-118.
30. Boughton, EH, PF Quintana-Ascencio, PJ Bohlen, JE Fauth, DG Jenkins. 2015. Interactive effects of land-use, grazing, and fire on subtropical wetland plant assemblages. *J. Applied Ecology* 53:159-170.
31. Medley, KA, EH Boughton, DG Jenkins, PF Quintana-Ascencio, P Bohlen, and JE Fauth. 2015. Intense ranchland management tips the balance of regional and local factors affecting wetland community structure. *Agriculture, Ecosystems & Environment* 212:207-244.
32. Kelly, SL, H Song, DG Jenkins. 2015. Land management practices interactively affect wetland beetle ecological and phylogenetic community structure. *Ecol. Applications* 25:891-900.
33. Jenkins, DG. 2015. Estimating ecological production from biomass. *EcoSphere* 6:49.
34. Medley, KA, DG Jenkins, EA Hoffman. 2015. Human-aided and natural dispersal drive gene flow across the range of an invasive mosquito. *Molec. Ecol.* 24:284-295.
35. Jenkins, DG. 2014 *Lakes and rivers as microcosms*, v. 2.0. *J. Limnology*. 797.
36. McCauley, LA, DG Jenkins and PF Quintana-Ascencio. 2013. Isolated wetland loss and degradation over two decades in an increasingly urbanized landscape. *Wetlands* 33:117-127.
37. McCauley, LA, DG Jenkins and PF Quintana-Ascencio. 2013. Reproductive failure of a long-lived wetland tree in urban lands and managed forests. *J. Applied Ecology* 50:25-33.
38. Jenkins, DG and RE Ricklefs. 2011. Biogeography and ecology: two views of one world. In: Jenkins, DG and RE Ricklefs (eds). *Biogeography and Ecology - Two Views of One World*. Philosophical Transactions of the Royal Society, B 366:2331-2335.
39. Ricklefs, RE and Jenkins, DG. 2011. Biogeography and ecology: toward the integration of two disciplines. In: Jenkins, DG and RE Ricklefs (eds). *Biogeography and ecology - two views of one world*. Philosophical Transactions of the Royal Society, B. 366:2438-2448.
40. Jenkins, DG and RE Ricklefs. 2011. Biogeography and ecology: two lenses in one telescope. *Frontiers of Biogeography* 3:3-5.
41. Jenkins, DG. 2011. Ranked species occupancy curves reveal common patterns among diverse metacommunities. *Global Ecology & Biogeography* 20:486-497.

42. Jenkins, DG, KA Medley and RB Franklin. 2011. Microbes as tests of biogeographical principles. Chapter 15 in D Fontaneto (ed.), *Biogeography of microscopic organisms. Is everything small everywhere?* Cambridge University Press.
43. Jenkins, DG, M Carey, J Czerniewska, J Fletcher, T Hether, A Jones, S Knight, J Knox, T Long, M Mannino, M McGuire, A Riffle, S Segelsky, L Shappell, A Sterner, T Strickler, and R Tursi. 2010. A meta-analysis of isolation by distance: relic or reference standard for landscape genetics? 2010. *Ecography* 33:315-320.
44. Boughton, EH, PF Quintana-Ascencio, PJ Bohlen, DG Jenkins, and R Pickert. 2010. Land-use and isolation interact to affect wetland plant assemblages. *Ecography* 33:461-470.
45. Berry, BJ, DG Jenkins, and AC Schuerger. 2010. Effects of simulated Martian conditions on the survival and growth of *Escherichia coli* and *Serratia liquefaciens*. *Applied & Environmental Microbiology* 76:2377–2386.
46. Jenkins, DG and D Rinne. 2008. Red herring or low illumination? The peninsula effect revisited. *J. Biogeography*. 35:2128-2137.
47. Alemadi, SD and DG Jenkins. 2008. Behavioral constraints for the spread of the eastern mosquitofish, *Gambusia holbrooki* (Poeciliidae). *Biological Invasions* 10:59-66.
48. Jenkins, DG, CR Brescacin, CV Duxbury, JA Elliott, JA Evans, KR Grablow, M Hillegass, BN Lyon, GA Metzger, ML Olandese, D Pepe, GA Silvers, HN Suresch, TN Thompson, CM Trexler, GE Williams, NC Williams and SE Williams. 2007. Does size matter for dispersal distance? *Global Ecology and Biogeography* 16:415-425.
49. Jenkins, DG. 2007. A critical analysis of Illinois' fish mercury monitoring program, 1974-1998. *Environ. Monit. Assess.* 131:177-184.
50. Lemke, MJ, DG Jenkins, J Bartletti, and T Goode. 2007. Comparison of nitrogen and bacterial dynamics in Spunky Bottoms and LaGrange floodplain wetlands. In: Heske, EJ, et al. (eds). *Spunky Bottoms: restoration of a big-river floodplain. Proceedings of the Spunky Bottoms Restoration Symposium, May 2003. INHS Special Publication 29, Champaign, IL.* pgs. 12-14.
51. Jenkins, DG and LA McCauley. 2006. GIS, SINKS, FILL, and disappearing small wetlands: a case study of unintended consequences in algorithmic development. *Proceedings of the 2006 ACM Symposium on Applied Computing.*
52. Jenkins, DG. 2006. In search of quorum effects in metacommunity structure: species co-occurrence analyses. *Ecology* 87:1523–1531.
53. McCauley, LA and DG Jenkins. 2005. GIS-based estimates of former and current depressional wetlands in an agricultural landscape. *Ecological Applications* 15:1199-1208.
54. Bohonak, A. and DG Jenkins. 2003. Ecological and evolutionary significance of dispersal by freshwater aquatic invertebrates. *Ecology Letters* 6:783-796.
55. Jenkins, DG, S Grissom, K Miller. 2003. Consequences of prairie wetland drainage for crustacean biodiversity and metapopulations. *Conservation Biology* 17:158-167.
56. Jenkins, DG, K Cook, JL Garland. 2000. *Pythium* infection of plant-based life support systems: biological control and a potential source of infection. *Life Support and Biosphere Science* 7:209-218.
57. Chang, N and DG Jenkins. 2000. Plastid endosymbionts in the freshwater crustacean

- Daphnia obtusa*. J. Crustacean Biology 20:231-238.
58. Schwartz, SS and DG Jenkins. 2000. Temporary aquatic habitats: constraints and opportunities. Aquatic Ecology 34:3-8.
  59. Stevens, PH and DG Jenkins. 2000. Small-scale spatial pattern analysis of crustacean community composition among temporary ponds. Aquatic Ecology 34:91-99.
  60. Nix, MH and DG Jenkins. 2000. Life history comparisons of *Daphnia obtusa* from temporary ponds and fed low-quality food. Aquatic Ecology 34:19-27.
  61. Jenkins, DG, C Atkinson, JL Garland. 1998. A cautionary note on measuring protistan bacterivory: lysozyme analyses are neither protistan- or bacterivore-specific. Invertebrate Biology 117:181-185.
  62. Jenkins, DG and M Underwood. 1998. Zooplankton may not disperse readily in wind, rain, or waterfowl. Hydrobiologia 387/388:15-21.
  63. Holland, TA and DG Jenkins. 1998. Comparison of the processes regulating zooplankton assemblages in new freshwater pools. Hydrobiologia 387/388:207-214.
  64. Jenkins, DG and AL Buikema, Jr. 1998. Do similar communities develop in similar sites? A test with zooplankton structure and function. Ecological Monographs 68: 421-443.
  65. Jenkins, DG. 1995. Dispersal-limited zooplankton distribution and community composition in new ponds. Hydrobiologia 313:15-20.
  66. Jenkins, DG, WL Grogan, Jr. and ME Folkoff. 1995. An additional record of the freshwater jellyfish, *Craspedacusta sowerbyi*, on Maryland's Eastern Shore, with notes on its habitat. Maryland Naturalist 38:3-6.
  67. Christman, VD, JR Voshell, DG Jenkins, MS Rosenzweig, RJ Layton, and AL Buikema, Jr. 1994. Ecological development and biometry of untreated pond mesocosms. In: RL Graney, JH Kennedy, and JH Rodgers, eds. Aquatic Mesocosm Studies in Ecological Risk Assessment. Lewis Publ., Boca Raton, FL.
  68. Jenkins, DG and AL Buikema, Jr. 1990. Response of a winter plankton food web to simazine. Environ. Toxicol. Chem. 9:693-705.
  69. Jenkins, DG, RJ Layton and AL Buikema, Jr. 1989. State of the art in aquatic ecological risk assessment. In: JR Voshell, ed. Using mesocosms to assess the aquatic ecological risk of pesticides: theory and practice. Ent. Soc. Amer. Misc. Publ. MPPEAL 75:18-32.
  70. McCormick, PV, JR Pratt, DG Jenkins and J Cairns, Jr. 1988. A comparison of protozoan, algal and metazoan colonization of artificial substrates of differing size. Trans. Am. Microsc. Soc. 107: 259-268.

#### **OTHER PUBLICATIONS**

1. Jenkins, DG. 2011. Biology, movement, and impacts of *Gambusia holbrooki* in its native range. In P Jackson & H Bamford, eds. *Gambusia Forum, 2011: Small fish... big problem!* Murray–Darling Basin Authority, Canberra ACT.  
<http://www.mdba.gov.au/sites/default/files/pubs/Gambusia-Forum-Abstracts-final.pdf#page=11>
2. Bauder, ET, AJ Bohonak, B Hecht, MA Simovich, D Shaw, DG Jenkins, and M Rains. 2009. A draft regional guidebook for applying the hydrogeomorphic approach to assessing wetland functions of vernal pool depressional wetlands in southern California.

- San Diego State University, San Diego, CA.
3. Awtrey, D, L Cimino-Hurt, T Donley, J Felix, N Habenicht, and DG Jenkins. 2000. Using terracotta flowerpots as nutrient diffusing substrates. Woodrow Wilson Foundation Summer Biology Institute.
  4. Jenkins, DG. 1999. Vegetation Inventory of Bluff Springs Sand Ponds. Final Report to Illinois Department of Natural Resources, Division of Natural Heritage.
  5. Jenkins, DG. 1998. Can hydroponic life support systems resist invasion by pathogens? NASA Contractor Report CR-207197, Kennedy Space Center, FL.
  6. Jenkins, DG. 1997. Aquatic Invertebrate Inventory of Bluff Springs Sand Ponds. Final Report to Illinois Department of Natural Resources, Division of Natural Heritage.
  7. Jenkins, DG. 1996. Microinvertebrates in CELSS hydroponic rhizosphere: experimental invasion as a test of community stability and a test of a method to measure bacterivory. NASA Contractor Report CR-202756, Kennedy Space Center, FL.
  8. Jenkins, DG. 1995. Invertebrate diversity and density in hydroponic systems of the closed Biomass Production Chamber. Report to Dynamac Corp., Kennedy Space Center, FL.
  9. Kennedy, PL, WH Clements, OB Myers, HT Bestgen, and DG Jenkins. 1993. Evaluation of depleted uranium in the environment at Aberdeen Proving Grounds, Maryland and Yuma Proving Grounds, Arizona. Final Report.
  10. Jenkins, DG. 1990. Structure and function of zooplankton colonization in twelve new experimental ponds. Ph.D. Dissertation: Virginia Polytechnic Institute & State University.
  11. Jenkins, DG. 1986. Effects of an herbicide on a planktonic food web. Master's Thesis: Virginia Polytechnic Institute & State University.

**GRADUATE STUDENTS SUPERVISED <sup>a</sup>**

**(M = M.S., P = Ph.D., c = co-advisor, \* = current)**

1. M Underwood (M)	13. L Range (M)	25. M Jones (M,c)
2. M Joseph (M)	14. D Arfsten (M)	26. J Niederhauser (M,c)
3. S Fontenelle (M)	15. S Marlow (M)	27. K Medley (P)
4. A Zagoren (M)	16. S Ryan-Schneider (M)	28. S Kelly (M)
5. T Le (M)	17. K Kiehl (M)	29. C Debevec (M)
6. T Holland (M)	18. C Chapman (M)	30. PJ Schroeder (P)
7. M Nix (M)	19. D Rinne (M)	31. L Ohyama (M,c)
8. N Embley (M)	20. S Alemadi (M)	32. H Bevan (M & P*)
9. P Stevens (M)	21. A Bernard (M)	33. J Hart (P*)
10. G Walia (M)	22. B Berry (M)	34. M Bardales (M*)
11. A Wolf (M)	23. J Abelson (M,c)	
12. L McCauley (M & P)	24. C Collins (M)	

a. I stopped counting undergraduate students when the number exceeded 50.

**PRESENTATIONS**

[\* including co-authored presentations by students]

1. Chen, W, DG Jenkins, J Carroll, G Cook. Quantifying age and growth rates of Gray Snapper (*Lutjanus griseus*) in Mosquito Lagoon, Florida. Ocean Sciences Meeting, February 2024.
2. Bevan, H, DG Jenkins. 2024. Do SDM performance scores tell us anything about reality? A test with virtual species. International Biogeography Society, January 2024.
3. Bardales Cruz, M, DG Jenkins. A global model of changes in human terrestrial impacts over five decades. International Biogeography Society, January 2024.
4. Jenkins, DG, L Ohyama, JD Bogota-Gregory. Spatial scaling of beta diversity is broadly consistent and repeatable among ants, birds, diatoms, and trees. International Biogeography Society, January 2024.
5. Guo, Y, EH Boughton, J Qiu, P Bohlen, L Chambers, J Fauth, DG Jenkins, PF Quintana-Ascencio, G Sonnier. Agricultural management alters wetland multifunctionality in a subtropical agroecosystem. Ecological Society of America, August 2023.
6. Boughton, EH, P Quintana-Ascencio, DG Jenkins, et al. Trade-offs and synergies in a payment-for-ecosystem services program on ranchlands in the Everglades headwaters Greater Everglades Ecosystem Restoration Conference, April 2023.
7. \* Bevan, H and DG Jenkins. Pervasive invasives: Florida range limits for four priority invasive reptiles. North American Invasive Species Management Association, November 2022.
8. Jenkins, DG. A macroecology of global terrestrial human impacts. British Ecological Society Macroecology Fest, July 2022.
9. Jenkins, DG. One thing leads to another: from zooplankton to global human resource consumption. Invited seminar, Washington University in St. Louis, Tyson Research Center, June 2022.
10. Jenkins, DG. What predicts location and intensity of human impacts on global terrestrial ecosystems? International Biogeography Society, Vancouver, June 2022.
11. \* Bevan, HR and DG Jenkins. Help wanted: inconsistent SDM methods seeking new management. ESA meeting, Long Beach, August 2021.
12. Jenkins, DG. Predicting global human impacts on terrestrial ecosystems. UCF Mathematical Biology Seminar Series. Invited. December 2020.
13. Bogota-Gregory, JD, FCT Lima, DG Jenkins, AE Magurran, WGR Crampton. Habitat connectivity predicts temporal species turnover in megadiverse Amazonian fish assemblages. ESA Annual Meeting, August, 2020.
14. Medley, K, K Westby, DG Jenkins. Living on the edge: rapid local adaptation at the northern range limit for an invasive mosquito. Entomology 2019, November 2019.
15. \* Hart, JD and DG Jenkins. Testing the dynamic equilibrium model of biodiversity: Productivity and disturbance produce weak intermediate peaks. ESA Annual Meeting, August, 2019.



16. \* Li, H, EH Boughton, D Jenkins, PF Quintana-Ascencio. How much can your neighbors do to you? Uncovering the direct and indirect effects among neighboring species in context-dependent competition. ESA meeting, Louisville, August 2019.
17. Jenkins, DG. Seasonal wetlands across the Atlantic. Estación Biológica de Donana, Sevilla, Spain. Invited. January 2019.
18. Jenkins, DG, S Mayor, P Quintana-Ascencio. The intermediate disturbance hypothesis is supported for regional communities. International Biogeography Society, Malaga, January 2019.
19. \* Bevan, HR and DG Jenkins. An exotic lizard causing local problems: Predicting the spread of the Nile monitor (*Varanus niloticus*) into new regions across the globe. ESA meeting, New Orleans, August 2018.
20. \* Ohyama, L, JR King, DG Jenkins. 2018. Diversity and distribution of *Solenopsis* (Hymenoptera: Formicidae) thief ants belowground. ESA meeting, New Orleans, August 2018.
21. \* Ho, J, EH Boughton, DG Jenkins, G Sonnier, PJ Bohlen, LG Chambers. 2017. The interactive and long-term effects of ranching practices on soil nutrient dynamics in subtropical wetlands. Soil Science Society of America, Orlando, October 2017.
22. Jenkins, DG. Predator-prey theory indicates the "population bomb" is still ticking. International Biogeography Society, Tucson, January 2017.
23. Smith, N, M Grace, K Arnaldi, C Bunner, K Guilfoyle, K Klein, K Mercier, J Napier, D Perry, K Phillips, R Rautsaw, G Stahelin, D Volk, DG Jenkins. Toward a macroecology of roadkill. International Biogeography Society, Tucson, January 2017.
24. Jenkins, DG. General allometric scaling of net primary production agrees with plant adaptive strategy theory and has tipping points. ESA meeting, Ft. Lauderdale, FL, August 2016.
25. \* Schroeder, PJ and DG Jenkins. Which measures of  $\beta$ -diversity are most resilient to method error? ESA meeting, Ft. Lauderdale, FL, August 2016.
26. \* Bevan, H and DG Jenkins. From pet to predator? Potential global range and food web effects of the Nile monitor, *Varanus niloticus*. ESA meeting, Ft. Lauderdale, FL, August 2016.
27. Jenkins, DG. Conserving central Florida wetlands. Invited Speaker, Florida Dept. of Environmental Protection, Central Division, Orlando, August, 2016.
28. Jenkins, DG. Relaxing tradeoffs helps metacommunity paradigms be more comparable and general. ESA meeting, Baltimore, August 2015.
29. \* Perkins, H and DG Jenkins. Potential global spread of a large predator, the Nile monitor lizard (*Varanus niloticus*). ESA meeting, Baltimore, August 2015.
30. Jenkins, DG. Bending metacommunity theory. UCF Math-Biology seminar series, April 2015.
31. Jenkins, DG. Terrestrial primary production scaling is unimodal and hierarchical. IBS Meeting, Bayreuth, January 2015.
32. \* Perkins, H and DG Jenkins. Projecting the spread of a large carnivorous reptile. IBS Meeting, Bayreuth, January 2015.
33. Jenkins, DG and PF Quintana-Ascencio. Metacommunity assembly affects the local-regional species richness relationship. IBS Special Meeting on the Geography of Species

- Associations, Montreal, November, 2013.
34. Jenkins, DG. Cypress recruitment failure and loss due to urbanization and forest management practices. *Invited Speaker*, St. John's River Water Management District, Palatka, FL, June 2013.
  35. Jenkins, DG, et al. Estimating the size of biodiversity building blocks for conservation biogeography. IBS Meeting, Miami, FL, January 2012.
  36. Jenkins, DG, ER Moran, N Nafzger, E Rysak, C Grimont, J Houder and M Gutierrez. Equifinal ecosystem productivity despite biodiversity variance in replicate, open ecosystems. ESA Annual Meeting, Portland, OR, August 2012.
  37. Jenkins, DG. Interactive effects of pasture management, grazing, and fire on Florida ranchland wetlands. *Invited Speaker*, University of South Florida Department of Biology, April 2012.
  38. Jenkins, DG. Biology, movement, and impacts of *Gambusia holbrooki* in its native range. *Invited Speaker*, Gambusia Forum, Murray-Darling Basin Authority, Melbourne, Australia, June 2011.
  39. Jenkins, DG. An analysis and hypotheses of regional communities. *Invited Speaker*, University of Aarhus, Denmark, May 2011.
  40. \* Medley, KA, DG Jenkins, and EA Hoffman. Range-wide landscape genetics reveal human-aided invasion patterns. IBS Meeting, Heraklion, Crete, January 2011.
  41. \* McCauley, LA, DG Jenkins, and PF Quintana-Ascencio. Range-wide urbanization effects on cypress (*Taxodium distichum*) wetlands. IBS Meeting, Heraklion, Crete, January 2011.
  42. Jenkins, DG and RE Ricklefs. Biogeography and ecology - two lenses in one telescope. A symposium in the IBS Meeting, Heraklion, Crete, January 2011.
  43. Jenkins, DG, C Debevec, C Quang, D Brown, C Benedict, E Ouellette and L Szeto. The paradox of the plankton, tested in time and biogeographic space. IBS Meeting, Heraklion, Crete, January 2011.
  44. \* McCauley, LA, DG Jenkins, and PF Quintana-Ascencio. An analysis of historical wetland loss in an urban environment. ESA Annual Meeting, Pittsburgh, PA, August 2010.
  45. \* Medley, KA, EH Boughton, DG Jenkins, PJ Bohlen, PF Quintana-Ascencio, and John E Fauth. Residual effects of land management on wetland communities in an agricultural landscape. ESA Annual Meeting, Pittsburgh, PA, August 2010.
  46. Boughton, EH, PF Quintana-Ascencio, PJ Bohlen, JE Fauth, and DG Jenkins. Surrounding management intensity alters the outcome of fire and grazing on wetland plant communities. ESA Annual Meeting, Pittsburgh, PA, August 2010.
  47. \* Brescacin, CR and DG Jenkins. Florida's natural lands and feral hogs: a domestic disturbance. International Wild Pig Conference, Pensacola, FL, April 2010.
  48. Jenkins, DG. Species-occupancy distributions: a new analysis, empirical patterns, and hypotheses. *Invited Speaker*, University of South Florida Department of Integrative Biology, April 2010.
  49. Jenkins, DG. Interactive effects of pasture management, grazing, and fire on wetland biodiversity (so far). *Invited Speaker*, Joseph W. Jones Ecological Research Center at Ichauway, February 2010.

50. Jenkins, DG. Are small organisms exempt from principles of macroecology and biogeography? *Invited Speaker*, Virginia Commonwealth University, Department of Biology seminar, September 2009.
51. Jenkins, DG. Species-occupancy distributions: a new analysis, empirical patterns, and hypotheses. *Invited Speaker*, Laboratory of Aquatic Ecology & Evolutionary Biology, University of Leuven, Belgium, September 2009.
52. Jenkins, DG. Biological mechanisms underlying microbial biogeography. *Invited Speaker* in the symposium “The importance of being small: does size matter in biogeography?” Systematics 2009, Leiden University, August 2009.
53. \* Brescacin, C.R. and D.G. Jenkins. Feral hogs: gardeners of exotics or maintainers of native biodiversity? Southeastern Ecology & Evolution Conference, March 2009.
54. Jenkins, DG. Isolated wetlands: non-navigable, non-adjacent, unmitigatedly irreplaceable, and disappearing. *Invited Speaker*, Florida Chapter of The Wildlife Society Spring Meeting, March 2009.
55. \* Medley, KA, EA Hoffman, and DG Jenkins. Multiple niche shifts during the global invasion of the Asian tiger mosquito (*Aedes albopictus* Skuse) revealed by reciprocal niche models. International Symposium on the Asian Tiger Mosquito, February 2009.
56. Jenkins, DG M Carey, J Czerniewska, J Fletcher, T Hether, A Jones, S Knight, J Knox, M Mannino, A Riffle, S Segelsky, L Shappell, T Speight, A Sterner, and R Tursi. Isolation by distance is dead, long live IBD. International Biogeography Society, Merida, MX, January 2009.
57. \* Bernard, AB, DG Jenkins, and P Quintana-Ascencio. Effects of isolation on metapopulation dynamics in small-world networks. ESA Annual Meeting, Milwaukee, WI, August 2008.
58. Jenkins, DG. Rank-occupancy curves: a potential new tool to compare species distributions. ESA Annual Meeting, Milwaukee, WI, August 2008.
59. \* McCauley, LA, DG Jenkins, and P Quintana-Ascencio. Urbanization effects on cypress domes in central Florida. ESA Annual Meeting, Milwaukee, WI, August 2008.
60. \* Medley, KA, EH Boughton, DG Jenkins, P Quintana-Ascencio, JE Fauth, and PJ Bohlen. Wetland insect communities in an agricultural landscape: Impacts of historical and contemporary nutrient enrichment and vegetation structure. ESA Annual Meeting, Milwaukee, WI, August 2008.
61. \* Berry, BJ, DG Jenkins, and AC Schuenger. Lower limits of life on Mars: the interactive effects of high salinity, low temperature, and low pressure on two common biological spacecraft contaminants in simulated Martian conditions. Astrobiology Science Conference, San Jose, CA, April 2008.
62. Jenkins, DG, CR Brescacin, CV Duxbury, et al. Does size matter for dispersal distance? International Biogeography Society, Tenerife, Canary Islands, January 2007.
63. Rinne, D and DG Jenkins. The peninsula effect: a dead, red herring or alive and camouflaged? ESA Annual Meeting, Memphis, TN, August 2006.
64. \* Boughton, E, P Quintana-Ascencio and DG Jenkins. Wetland plant assemblages across an agricultural disturbance gradient in central Florida. ESA Annual Meeting, Memphis, TN, August 2006.
65. \* Boughton, E, P Quintana-Ascencio, P Bohlen, J Fauth, & DG Jenkins. Pasture

- management on Florida ranchland affects the conservation value of wetland plant assemblages. SCB Annual Meeting, Chattanooga, TN, June 2008.
66. Jenkins, DG. In search of quorum effects in metacommunity structure: species co-occurrence analyses. ESA Annual Meeting, Memphis, TN, August 2006.
  67. Lemke, MJ, AM Lemke, K Miller, and DG Jenkins. Strategies for a large-scale river floodplain restoration effort: the Emiquon project on the Illinois River. NABS Annual Meeting, Anchorage, Alaska, June 2006.
  68. Jenkins, DG and LA McCauley. GIS, SINKS, FILL, and Disappearing Small Wetlands: A Case Study of Unintended Consequences in Algorithmic Development. Association of Computing Machinery Symposium on Applied Computing, Dijon, France, April 2006.
  69. Lemke, MJ, DG Jenkins, K Miller, M Pegg, and K Carr. Nitrogen distribution and denitrification in the LaGrange reach of the Illinois river and its floodplain. USEPA Mississippi River Basin Nutrients Science Workshop, St. Louis, Missouri, October 2005.
  70. Jenkins, DG, A Morrison-Shetlar, P Quintana-Ascencio, IJ Stout, J Waterman, and JF Weishampel. Assessing the undergraduate biology curriculum at the University of Central Florida. NSF - Faculty Institutes to Reform Science Teaching (FIRST II) Conference, Kellogg Biological Station, Hickory Creek, Michigan.
  71. Jenkins, DG, C Rosas-Anderson, LA McCauley and J Weishampel. Think of aquatic ecosystems as small-world networks. ASLO Conference, February 2005.
  72. Jenkins, DG. Nets, Banks, Kernels, & Scales: A Meta-View of Freshwater Ecology. UCF Biology Department Seminar, October 2004, and *Invited Speaker*, Kellogg Biological Station, Michigan State University, November 2004.
  73. \* Rosas-Anderson, C, DG Jenkins, and J Weishampel. Rivers of the world are small-world networks. Society for Conservation GIS, September 2004.
  74. Jenkins, DG. Dispersal myths and their relevance to natural and constructed ecosystems. *Invited Speaker*, Kennedy Space Center Biological Seminar Series, February 2004.
  75. \* McCauley, L, and DG Jenkins. GIS-based estimates of former isolated depressional wetlands in an agricultural landscape. ESA Annual Meeting, August 2003.
  76. \* Chapman, C, and DG Jenkins. Metacommunity dynamics drive rockpool community recovery after a natural disturbance. ESA Annual Meeting, August 2003.
  77. \* Jenkins, DG, K Kiehl, and S Ryan-Schneider. Local- and regional-scale models of habitat suitability for the Illinois chorus frog (*Pseudacris streckerii illinoensis*) in isolated wetlands. ESA Annual Meeting, August 2003.
  78. Jenkins, DG. Myths, evidence, and ecology of inter-wetland dispersal. *Invited Speaker*, University of Central Florida Dept. of Biology, March 2003.
  79. Jenkins, DG. Mythology, evidence, and ecology of zooplankton dispersal. *Invited Speaker*, Oklahoma State University Dept. of Zoology Seminar Series, January 2003.
  80. Jenkins, DG. Ephemeral wetlands in the US Midwest: history, biogeography, and biodiversity. *Invited Speaker*, Temporary Ponds Workshop, Katholieke Universitat Leuven, Belgium, September 2002.
  81. \* Kiehl, KB and DG Jenkins. Amphibian habitat quality is indicated by macroinvertebrates, physical-chemical conditions, and other amphibians. ESA Meeting, August 2002.
  82. \* Reynolds, N, A Bohonak, C Charlton, & DG Jenkins. Population genetic structure of

- Musculium securis* (Sphaeriidae, Bivalvia) in a group of temporary ponds. SSE Annual Meeting, June 2002.
83. \* Kiehl, K and DG Jenkins. Indicating amphibian habitat quality: a comparative look at macroinvertebrate diversity, physical-chemical components, and amphibian presence and distribution. UIS Science Symposium, April 2002.
  84. \* Traylor, E and DG Jenkins. Does egg color indicate *Daphnia* egg viability in ponds with different hydroperiods? UIS Science Symposium, April 2002.
  85. \* Kiehl, K and DG Jenkins. Indicating amphibian habitat quality: macroinvertebrate diversity, physical-chemical conditions, and amphibian diversity. Midwestern Ephemeral Wetlands Conference, February 2002.
  86. Jenkins, DG. Lessons From the Corn Belt: historical wetland loss, and its effects on crustacean diversity and metapopulation viability. *Invited Speaker*, UIUC PEEB Seminar Series, October, 2001.
  87. Jenkins, DG and LL Range. Contaminants in fish of Illinois inland lakes, 1974-1998. *Invited Speaker*, Illinois Fish Contaminant Monitoring Board, November 2001.
  88. Jenkins, DG and LL Range. Contaminants in fish of Illinois inland lakes, 1974-1998. ESA Meeting, August 2001.
  89. \* Range, L. and DG Jenkins. Fish contaminants in Illinois inland lakes, 1974-1998. ILMA Conference, March 2001.
  90. \* Brady, CP, and DG Jenkins. Photometric detection of photosynthetic activity in plastid endosymbionts of *Daphnia obtusa*. Illinois Lake Management Association Annual Conference, Rockford, IL, April 2002.
  91. \* Kiehl, K & DG Jenkins. Indicating amphibian habitat quality: macroinvertebrate diversity, physical-chemical conditions, and amphibian diversity. Illinois Lake Management Association Annual Conference, Rockford, IL, April 2002.
  92. Jenkins, DG, SS Schwartz, and M Simovich. A preliminary classification system for temporary lentic waters of North America. ASLO Meeting, February 2001.
  93. Simovich, MA, T Philippi and D Jenkins. Considerations for the use of hydrogeomorphic models for ephemeral wetlands. ASLO Meeting, February 2001.
  94. Jenkins, DG. A tentative analogy: ponds are to forests as zooplankton are to trees. *Invited Speaker*, Dept. of Ecology & Evolutionary Biology Lab Tea, Princeton University, July 2000.
  95. Jenkins, DG, K Miller, and S Grissom. Lessons from the Cornbelt: crustacean diversity and the loss of prairie wetlands. *Invited Speaker*, Crustacean Society, June 2000.
  96. Jenkins, DG. Interannual variation in hydrology and crustacean communities of temporary ponds. NABS Annual Meeting, May-June, 2000.
  97. Jenkins, DG. Temporary ponds: Illinois' forgotten waters. Illinois Lake Management Association, March 2000.
  98. Jenkins, DG. Summary of research at Bluff Springs Sand Ponds. UIS Biology Dept. Seminar, October 1999.
  99. Jenkins, DG. Zooplankton dispersal: mythology, evidence, and ecology. Workshop on the Evolution of Dispersal, University of Helsinki, Tvarminne Zoological Station, Finland, October 1998.
  100. Morales, A, JL Garland, DG Jenkins, KM Gray. Effects of microbial community

- complexity on the resistance of the wheat rhizosphere to invasion by *Pseudomonas aeruginosa*. ISME, August 1998.
101. \* Nix, MH, and DG Jenkins. Vernal woodland vs. farm pond *Daphnia obtusa*: life history comparisons in low-quality food. ASLO/ESA Meeting, June 1998.
  102. Chang, N, DG Jenkins, and MH Nix. Do temporary pond *Daphnia* carry chloroplast endosymbionts? - an ultrastructural investigation. ASLO/ESA Meeting, June 1998.
  103. \* Stevens, PH and DG Jenkins. Variation among invertebrate communities in closely-spaced temporary ponds. ASLO/ESA Meeting, June 1998.
  104. Chang, N and DG Jenkins. Ultrastructure of chloroplasts in *Daphnia* gut. Central States Microscopy Society, May 1998.
  105. Morales, A, JL Garland, DG Jenkins, KM Gray. Persistence of *Pseudomonas aeruginosa* in the rhizosphere of hydroponically-grown wheat. ASM Annual Meeting, May 1998.
  106. Jenkins, DG, K Cook, and JL Garland. *Pythium* infection of plant-based life support systems: biological control and a potential source of infection. 3rd International Conference on Life Support and Biosphere Science, Orlando, FL, January 1998.
  107. Jenkins, DG. Invasion of the pond scum, part 2. Does complexity resist invasion? NASA-KSC, Advanced Life Support Systems, August 1997.
  108. \* Holland, TA and DG Jenkins. Comparison of the processes regulating zooplankton assemblages in new freshwater pools. VIII International Rotifer Symposium, June 1997.
  109. Underwood, M. and DG Jenkins. Wind, rain, and waterfowl as passive dispersal vectors of zooplankton. VIII International Rotifer Symposium, June 1997.
  110. Jenkins, DG. Invasion of the pond scum - a test of NASA's life support system. NASA-KSC, Advanced Life Support Systems, August 2, and UIS Science Colloquia Series, December 3, 1996.
  111. Jenkins, DG. Bluff Springs temporary ponds: historical and ecological questions. Illinois State Museum Research and Collection Center, October 1996.
  112. Holland, T and DG Jenkins. Colonization history vs. permanence vs. nutrient enrichment as regulators of zooplankton community structure. ASLO Meeting. June 1996.
  113. \* Zagoren, A and DG Jenkins. Nutrient and heavy metal uptake by *Lemna* communities. Midwest Ecology and Evolution Conference, April 1996.
  114. \* Le, T and DG Jenkins. *Helisoma trivolvis* cholinesterase inhibition by malathion. Midwest Ecology and Evolution Conference, April 1996.
  115. \* Brencce, WA, DG Jenkins, and MC Miller. An unusual nutrient/water budget of a eutrophic woodland reservoir. Ohio Academy of Science Meeting, April 1995.
  116. Jenkins, DG. Dispersal-limited zooplankton distribution and community composition in new ponds. VIIth International Rotifer Symposium, June 1994.
  117. Jenkins, DG. Do similar zooplankton communities develop in similar ponds? ESA Meeting, August 1994.
  118. Jenkins, DG. Ecological studies update at Sangamon State University. Lincoln Land Community College High School Biology Teachers Workshop. March 1994.
  119. Stivers, M and DG Jenkins. Nitrate budget for Lake Decatur based on volunteer-collected data. Illinois Lake Management Association 9th Annual Conference, April

- 1994.
120. Jenkins, DG. Ecological research. Science Colloquia Series, Sangamon State University, April 19, 1994.
  121. \* Leed, L, S Mullarkey, and DG Jenkins. Interspecific aggression between larval odonates and juvenile bluegill. Undergraduate Research Symposium, Salisbury State University, May 1993.
  122. Jenkins, DG and SB Smedley. Does submarine groundwater discharge affect meiofauna distribution? NABS Meeting, May 1992.
  123. \* Brence, WA and DG Jenkins. Effects of draining and algicide treatment on nutrient dynamics of Riwakin Pond. Undergraduate Research Symposium, Salisbury State University, May 1992.
  124. \* Latham, LG and DG Jenkins. An analysis of four procedures for the determination of production and respiration in laboratory aquatic microcosms. Undergraduate Research Symposium, Salisbury State University, May 1993.
  125. \* Williams, WB, C Crown, and DG Jenkins. Nutrient inputs and the effects on submerged aquatic vegetation and associated invertebrate communities in Eastlake pond. Undergraduate Research Symposium, Salisbury State University, May 1991.
  126. Christman, VD, DG Jenkins, MS Rosenzweig, RJ Layton, JR Voshell, and AL Buikema, Jr. Ecological development and biometry of untreated pond mesocosms. SETAC Meeting, November, 1990.
  127. Jenkins, DG and AL Buikema, Jr. Structure and Function of Twelve Early Successional Zooplankton Communities. ESA Meeting, August 1989.
  128. Flynn, TM and DG Jenkins. Genetic Complexity of Zooplankton Communities. ESA Meeting, August 1989.
  129. Jenkins, DG and AL Buikema, Jr. Early Zooplankton Colonization Dynamics of Twelve "Replicate" Experimental Pond Mesocosms. SETAC Meeting, Nov. 1988.
  130. Buikema, AL, Jr., DG Jenkins and RJ Layton. State-of-the-Art in Aquatic Ecological Risk Assessment. Entomological Society of America Conference, Nov.-Dec. 1987 in the symposium "Using Mesocosms to Assess the Aquatic Ecological Risk of Pesticides: Theory and Practice."
  131. Jenkins, DG and AL Buikema, Jr. Zooplankton Responses to Induced Changes in Phytoplankton Composition and Densities. ESA Meeting, August 1987.
  132. Jenkins, DG and AL Buikema, Jr. Effects of an Herbicide on a Planktonic Food Web. SETAC Meeting, November 1986.
  133. Jenkins, DG and AL Buikema, Jr. Plankton rotifer responses to herbicide stress in *in situ* microcosms. Virginia Academy of Science Meeting, May 1985.

**COURSES TAUGHT AT UCF, UIS & SSU**

(course titles simplified for translation among universities)

<b>Course</b>	<b>majors (m) or non-majors (n)</b>	<b>undergrad. (u) or grad. (g)</b>	<b>UCF</b>	<b>UIS</b>	<b>SSU</b>
1 Introductory Biology * <sup>L</sup>	m, n	u	■	■	■
2 Principles of Ecology <sup>L</sup>	m	u	■	■	■
3 Invertebrate Biology <sup>L</sup>	m	u	■	■	■
4 Wetland Ecology <sup>L</sup>	m	g	■		
5 Biogeography	m	u, g	■		
6 Seminar	m	u, g		■	■
7 Race to Save the Planet	n	u		■	
8 Science & the Human Future <sup>o</sup>	n	u		■	
9 Aquatic Ecology <sup>L</sup>	m	u		■	
10 Biology of Water Pollution <sup>L</sup>	m	g		■	
11 Plankton Ecology <sup>L</sup>	m	g		■	
12 Intro. to Ecological Modeling <sup>L</sup>	m	g		■	
13 Foundations of Ecology	m	g		■	
14 Advanced Ecology	m	g	■	■	
15 Biological Statistics <sup>L</sup>	m	g	■	■	
16 Topics in Aquatic Biology	m	g		■	
17 Topics in Water Quality	m	g		■	
18 Professional Development	m	g	■	■	

\* - including both semesters of a 1-year sequence and Honors

L - lab course, in which I also teach labs

o - online



## FUNDING

1. Florida Range Limits and Habitat Use of Four Priority Nonnative Species. Florida Fish & Wildlife Conservation Commission. 2020-2022. \$60,917.
2. Balancing Mosquito Control and Nontarget Effects across Orange County, FL. Florida Coordinating Council on Mosquito Control, Florida Dept. of Agriculture & Consumer Services. 2019-2021. \$140,695.
3. Validated Distribution and Habitat Model for Nile Monitors in Florida. Florida Fish & Wildlife Conservation Commission. 2016-2018. \$32,690.
4. Group Travel Support for the Symposium "Biogeography and Ecology - Two Lenses in One Telescope" (co-PI with Robert Ricklefs), US National Science Foundation, 2010-2011, \$22,760
5. Assessing Trade-Offs among Ecosystem Services in a Payment-for-Water Services Program on Florida Ranchlands (co-PI with Patrick Bohlen, John Fauth, Pedro Quintana-Ascencio, Sanjay Shukla, Greg Kiker and Hilary Swain) US Environmental Protection Agency, 2010-2014, \$480,877
6. Synergistic Effects of Grazing, Fire and Pasture Management on Wetlands in Cattle Ranches (co-PI with Patrick Bohlen, Pedro Quintana-Ascencio and John Fauth) US Dept. of Agriculture NRI, 2006-2009, \$399,867
7. Florida Space Grant Fellowship for Bonnie Berry, Florida Space Grant Consortium, 2006-2007, \$24,000
8. Analysis of Zooplankton Data, St. John's River Water Management District, 2006, \$12,600
9. James & Annie Ying Eminent Scholarship in Biology, UCF Foundation, 2003-present. \$150,000 endowment.
10. CREP Wetlands Assessment (co-PI with Dr. Michael Lemke), IL DNR, 2003, \$7,708
11. Intensive Watershed Sampling Summer Internships, IL EPA, 2002, \$21,650
12. LaGrange Wetland Nutrient Dynamics (co-PI with Dr. Michael Lemke), IL Dept. of Transportation, 2001-2004. \$279,914
13. Acquisition of an Image Analysis Suite for Aquatic Ecology (co-PI with Dr. Michael Lemke), National Science Foundation, 2001-2002. \$112,396
14. Aquatic Invertebrates and Wetland Assessment, IL Dept. of Transportation, 2000-2002. \$75,084
15. Water Workshop, DuPage County Regional Office of Education, 2000. \$1,500
16. Mentor, Woodrow Wilson National Fellowship Foundation Summer Biology Institute, 2000. \$1,000
17. Curriculum Development Award, UIS, 2000. \$1,500
18. Urban Erosion Control Demonstration Project. IL EPA Grant C9995010-95-0, 1995-97. \$8,700
19. Vegetation Inventory of Bluff Springs Sand Ponds. IL DNR 1998-1999. \$950
20. UIS Online Course Development Award, 1998. \$5,000
21. Competitive Scholarly Research Award, UIS, 1998. \$1,500
22. Aquatic Invertebrate Inventory of Bluff Springs Sand Ponds. IL DNR 1996-1997. \$975
23. Quantitative Microscopic Survey of the Invertebrate Populations in BPC Hydroponic

- Systems. Dynamac Corp. (contractor to NASA-KSC), 1995. \$2,000
24. Curriculum Development Award, SSU (IL), 1995. \$1,500
  25. Competitive Scholarly Research Award, SSU (IL), 1994. \$1,500
  26. Evaluation of Depleted Uranium in the Environment at Aberdeen Proving Grounds, Maryland. Subcontractor to Dept. of Defense Contract 9-XQ2-Z7115-1 to Colorado State University, 1992. \$10,000
  27. Grants and Sponsored Research Award, SSU (MD), 1991. \$1,500
  28. Salisbury State University Foundation, 1991. \$1,000
  29. R.A. Henson Foundation, 1990. \$1,000
  30. Sigma Xi Grant-in-Aid of Research, 1987. <\$1,000
  31. VPI&SU Graduate Research Development Grant, 1987. <\$1,000
  32. Sigma Xi Grant-in-Aid of Research, 1985. <\$1,000
  33. Virginia Academy of Sciences Research Award, 1984. <\$1,000

### **PROFESSIONAL SOCIETIES**

Ecological Society of America      International Biogeography Society

### **SERVICE ACTIVITIES**

#### University Service

1. member of Biology Undergraduate Curriculum, Space & Facilities, and P&T committees, 2023-2024.
2. member of Biology steering and space & facilities committees, 2022-23.
3. member, Integrative Biologist Search Committee, 2021-2022.
4. member, Davis-Shine Endowed Professor selection committee, 2021.
5. member, JR Williams Scholarship committee, 2021.
6. member, CoS Promotion and Tenure Committee, 2020-2022.
7. member, departmental Graduate committee, 2017-2020.
8. Chair, Department Promotion and Tenure Committee, 2018-19.
9. Chair, Ecoinformatics search committee, 2017-2018.
10. member of Biology steering, work equity, and AESP committees, 2016-17.
11. member, Behavioral Ecologist Search Committee, 2015-2016.
12. member, Dept. Steering Committee, 2012-2013, 2014-15.
13. Chair, Department Promotion and Tenure Committee, 2014-15, 2017-2018, 2018-2109.
14. CoS Graduate Curriculum & Research Committee, 2014-2015.
15. CoS Promotion and Tenure Committee, 2011-2013.
16. Dept. Graduate Coordinator, 2010-2013.
17. Chair's Advisory Committee, 2010-2012.
18. Policies and Procedures Committee, 2010-2012.
19. Dept. Graduate Committee, 2006-2008, 2010-2013.
20. Natural Areas Advisory Committee, 2010-2013.
21. Chair, then member, Dept. Curriculum Committee, 2003–2012.
22. Chair/member, Biological Sciences Field Station Committee, 2007-2012.
23. CoS Dean's Budget Advisory Committee, 2009.

24. College of Arts & Sciences Graduate Research and Curriculum Committee, 2005
25. Member, Disturbance Ecologist Search Committee, 2005-2006
26. Chair, UCF Evolutionary Biologist Search Committee, 2004-2005
27. UCF Cumulative Progress Evaluation Committee, 2003-present.
28. UIS Biology & Environmental Studies Search Committees, 2002-2003
29. 2 UIS Biology Search Committees, 2000-2001
30. 2 UIS Chemistry Search Committees, 1999-2000
31. UIS University Scholars Review Panel, 1999
32. Biology Search Committee, 1998-9
33. Graduate Council, UIS, 1998-9.
34. Chairperson, 7-year Review Committee for G. Butler, UIS, 1998.
35. Master Campus Planning Committee, UIS, 1997-8.
36. Campus Planning and Budgeting Committee, UIS, 1996-7.
37. Admissions Counselor Search Committee, UIS, 1996-7.
38. 7-year Review Committee for M. Levin, UIS, 1996-7.
39. Chairperson, Biology Program Faculty Search Committee, UIS, 1995-6.
40. Environmental Health and Safety Committee, UIS, 1995-1998.
41. Environmental Studies Program Faculty Search Committee, SSU/UIS, 1994-5.
42. 7-year Review Committees for A. Larson and J. Chesky, SSU/UIS, 1995.
43. Liberal Arts & Sciences Curriculum Review Committee, SSU/UIS, 1994-5.
44. Biology Program Faculty Search Committee, SSU/UIS, 1994-5.
45. Graduate Coordinator, Biology, SSU/UIS 1993-2003.
46. Biology Program Personnel Committee, SSU/UIS, 1993-2003.
47. Enrollment Management Advisory Group, SSU/UIS, 1993-6.
48. Long Range Academic Planning Committee, SSU/UIS, 1993-6.
49. Building Changes Committee, Biology Dept., SSU (MD), 1992.
50. Nominations & Elections Committee, SSU (MD), 1992.
51. Admissions & Readmissions Committee, SSU (MD), 1992.
52. Chair, Biology Core Curriculum Committee, SSU, 1991-3.
53. Graduate Honor System Judicial Panel, 1990, VPI&SU.
54. University Self-Study, Finances Committee, VPI&SU, 1988.
55. General Biology Program Review Committee, VPI&SU, 1989.

#### Professional Service

1. Peer Reviewer: *Global Ecology & Biogeography, Current Medical Research & Opinion*, 2024.
2. Associate Editor, *Frontiers of Biogeography*, 2011-present.
3. Academic Editor, *PLOS One*, 2018-2023.
4. Peer Reviewer: *Restoration Ecology* (x2), *Ecography*, *Science of the Total Environment*, *Royal Society Open Science*, 2023.
5. Peer Reviewer: *J. Biogeography* (x2), *Ecological Entomology* (x2), *PLOS One* (x2), 2022.
6. Peer Reviewer: *Global Ecology & Biogeography*, *Journal of Ecology*, *Oikos*, *J. Vegetation Science* (x2), *PLOS One* (x3), *Methods in Ecology & Evolution*, *Ecosphere*,

- 2021.
7. Peer Reviewer: *Frontiers of Biogeography* (x2), *Plant Ecology* (x2), *PLOS One* (x3), *Regional Environmental Change*, *Biological Invasions*, *Forest Ecosystems*, 2020.
  8. Peer Reviewer: *Ecology Letters* (x2), *Frontiers Ecology & Evolution*, *Movement Ecology* (x2), *Ecosphere* (x2), *Frontiers of Biogeography*, *PLOS ONE*, *Scientific Reports*, *Ecography* (x2), 2019.
  9. Peer Reviewer: *Ecosphere*, *Ecology*, *PLOS ONE*, French ANR proposal, *Scientific Reports*, *Oikos*, *Frontiers Ecology & Evolution*, 2018.
  10. Peer Reviewer: *Mammal Review* (2x), *Frontiers of Biogeography*, *Global Ecology & Biogeography*, *Ecology*, *Hydrobiologia*, 2017.
  11. Peer Reviewer: *Hydrobiologia*, *PLOS One* (2x), *Phil. Trans. Royal Soc. B, Molecular Ecology* (2x), editor *Frontiers of Biogeography*, 2016.
  12. Peer Reviewer: *J. Biogeography*, *Limnetica* (2x), *Ecology*, *Oecologia*, *TREE*, *Molecular Ecology*, 2015.
  13. Peer Reviewer: *J. Limnology*, *Oecologia*, *Biotropica*, *Hydrobiologia*, *BMC Ecology*, 2014.
  14. Peer Reviewer: *J. Limnology*, *Diversity & Distributions*, *Heredity*, *J. Ecology*, *Frontiers of Biogeography*, *J. Natural History*, 2013.
  15. Peer Reviewer: *Global Ecology & Biogeography*, *Heredity*, NSF, 2012.
  16. Peer Reviewer: *Oecologia* (2), *Ecology Letters*, *Ecology*, *J. Biogeography*, National Science Foundation, 2011.
  17. External reviewer, dissertation committee, Daniel Carstensen, Aarhus University, Denmark, April 2011.
  18. Symposium organizer, International Biogeography Society meeting, 2011.
  19. Peer Reviewer: National Science Foundation, *Hydrobiologia*, *Global Ecology & Biogeography*, *Ecography*, *Oikos*, *Ecological Applications*, 2010.
  20. Peer Reviewer: National Science Foundation, *Ecology Letters*, *Ecology*, *Hydrobiologia* (2), *International Review of Hydrobiology*, *J. Animal Ecology*, *Arctic, Antarctic & Alpine Research*, 2009.
  21. External reviewer, dissertation committee, Bram VanSchoenwinkel, Katholieke Universiteit Leuven, Leuven, Belgium, October 2009.
  22. Peer Reviewer, National Science Foundation, *Ecography*, *Diversity & Distributions*, *Freshwater Biology*, *Molecular Ecology* (2), *Ecology*, *Oecologia*, 2008.
  23. Braun Award judge, ESA Annual Meeting, 2008.
  24. Peer Reviewer, National Science Foundation, *Ecography*, *Oecologia*, *Oikos*, *Ecology*, *Freshwater Biology*, 2007.
  25. Peer Reviewer, *Freshwater Biology*, *Conservation Biology*, *Ecology*, *Oikos*, *Evolutionary Ecology*, *Ecological Entomology*, *Canadian Journal of Fisheries & Aquatic Sciences*, *Ecography*, 2006.
  26. Peer Reviewer, *Ecology*, *Ecology Letters*, *Limnology & Oceanography*, 2005.
  27. Peer Reviewer, *Limnology & Oceanography*, *Oecologia*, *Ecology*, *Diversity and Distribution*, *Biological Invasions*, 2004.
  28. Chair, Wetlands Ecology Contributed Papers Session, ESA Meeting, 2003.
  29. Peer Reviewer, *Ecology*, *Ecology Letters*, *Hydrobiologia*, *Wetlands*, *Marine &*

- Freshwater Research*, 2003.
30. Buell-Braun Student Award judge, ESA Meeting, 2002.
  31. Peer Reviewer, *Marine & Freshwater Research, Can. J. Fisheries & Aquatic Sciences, Archiv für Hydrobiologie, Ecology*, 2002.
  32. Guest Editor & Peer Reviewer, *Freshwater Biology*, special issue on Temporary Aquatic Habitats, 2002-2003.
  33. Peer Reviewer, *Ecology Letters, Freshwater Biology, Ecology*, 2001
  34. Co-Chair, Temporary Aquatic Ecosystems: Here Today, Gone Tomorrow, ASLO Aquatic Sciences Meeting, February 2001.
  35. ILMA Conference Program Chair, 2001 and 2002 Conferences.
  36. Member, Board of Directors, Illinois Lake Management Association (ILMA), 2000-2003.
  37. Peer Reviewer, *Israel Journal of Zoology, Vth International Symposium on Cladocera, American Midland Naturalist*, 2000.
  38. Grant Reviewer, FWO, Belgium, 1999.
  39. Guest Editor & Peer Reviewer, *Aquatic Ecology*, special issue on Temporary Aquatic Habitats, 1999-2000.
  40. Co-Chair, Temporary Aquatic Habitats, ASLO/ESA Meeting, St. Louis, MO, June 1998.
  41. Peer Reviewer, *Biol. Journal of the Linnean Society, Southwestern Naturalist, Scientiae Naturae*, 1998.
  42. Peer Reviewer, *Hydrobiologia*, 1997.
  43. Chair, Biotechnology, Culture, & Cell Biology Session, VIIIth International Rotifer Symposium, St. John's University, MN, June 1997.
  44. Co-organizer, Special Session on Temporary Habitats, ASLO Meeting, Milwaukee, WI, June 1996.
  45. Member, Master's Advisory Committee, Alex Brence, University of Cincinnati, 1994-6.
  46. Peer Reviewer, *Hydrobiologia*, 1994.
  47. Chairperson, Aquatic Ecology Session, ESA Annual Meeting, Knoxville, TN, August 1994.
  48. Moderator, Illinois Lake Management Association 9th Annual Meeting, Decatur, IL, April 1994.
  49. Scientific consultant (gratis), Cato Oil Co., Salisbury, MD, 1993.
  50. Peer Reviewer, US EPA Grant Proposals, Duluth Laboratory, 1992.