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Marine and Environmental Biology and Policy Program
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EDUCATION

PhD (Forest Resources and Conservation), 2007. University of Florida
MS (Biology), 2003. Saint Joseph's University
BA (Biological Sciences), 2001. University of Delaware

PROFESSIONAL EXPERIENCE

Associate Professor (2016 to present) Biology Department, Monmouth University

Assistant Professor (2010-2016) Biology Department, Monmouth University

Postdoctoral Research Associate (2008-2010) Department of Ecology, Evolution, and Organismal Biology, Iowa State University

Research Assistant (2003-2007) Forest Ecology and Ecosystem Restoration Laboratory, School of Forest Resources and Conservation, University of Florida

PROFESSIONAL ACTIVITIES

PUBLICATIONS

REFEREED PUBLICATIONS

Daneshgar PP, Phillips, LB, James DP, Mickley MG, Bohackyj AM, Rhoads, LJ, Bastian R and Wootton LS. (2017) Beach nourishment promotes Asiatic sand sedge invasion of New Jersey dunes. *Northeastern Naturalist* **24**:110-120.

Keiling TD, Rodenberg TD and Daneshgar PP (2016) Carbon sequestration of mangrove sediments on Eleuthera, The Bahamas. *Caribbean Naturalist* **31**:1-14.

Xu X, Polley HW, Hofmockel K, Daneshgar PP, and Wilsey BJ (2015) Plant invasions differentially affected by diversity and dominant species in native- and exotic-dominated

grasslands *Ecology and Evolution* **5**: 5662-5670.

Barreto CR, Daneshgar PP and Tiedemann JA (2015) Carbon sequestration of dwarf red mangrove in The Bahamas. Pages 101-112 in KJ Murchie and PP Daneshgar, editors. Mangroves as fish habitat. American Fisheries Society, Symposium 83, Bethesda, Maryland.

Hutchison J, Philipp DP, Claussen JE, Aburto-Oropeza O, Carrasquilla-Henao M, Castellanos-Galindo GA, Costa MT, Daneshgar PP, Hartmann HJ, Juanes F, Khan MN, Knowles L, Knudsen E, Lee SY, Murchie KJ, Tiedemann JA, zu Ermgassen P, Spalding M. (2015) Building an expert-judgment based model of mangrove fisheries Pages 17-42 in KJ Murchie and PP Daneshgar, editors. Mangroves as fish habitat. American Fisheries Society, Symposium 83, Bethesda, Maryland.

Martin LM, Polley HW, Daneshgar PP, Mary A. Harris MA and Wilsey BJ (2014) Biodiversity, photosynthetic mode, and ecosystem services differ between native and novel ecosystems. *Oecologia* **175**: 687-697.

Wilsey BJ, Daneshgar PP, Hofmockel K and Polley HW (2014) Invaded grasslands communities have altered stability-maintenance mechanisms but equal stability compared to native communities. *Ecology Letters* **17**: 92-100.

Daneshgar PP, Wilsey BJ and Polley HW (2013) Simple plant traits explain functional group diversity decline in novel grassland communities of Texas. *Plant Ecology* **214**: 231-241.

Wilsey BJ, Daneshgar PP and Polley HW (2011) Biodiversity, phenology and temporal niche differences between native- and novel exotic-dominated grasslands. *Perspectives in Plant Ecology, Evolution and Systematics* **13**: 265-276.

Daneshgar P and Jose S (2009) Broomsedge communities are resistant to invasion by Cogongrass (Florida). *Ecological Restoration* **27**:383-385.

Wilsey BJ, Teaschner TB, Daneshgar PP, Isbell FA, and Polley HW (2009) Biodiversity maintenance mechanisms differ between native and novel exotic-dominated communities. *Ecology Letters* **12**: 432-442.

Daneshgar P and Jose S (2009) *Imperata cylindrica*, an alien invasive grass, maintains control over N availability in an establishing pine forest. *Plant and Soil* **320**: 209-218.

Daneshgar P and Jose S (2009) Role of species identity in plant invasions: Experimental test using *Imperata cylindrica*. *Biological Invasions* **11**: 1431-1440.

Daneshgar P, Jose S, Collins AR and Ramsey CL (2008) Cogongrass (*Imperata cylindrical*), an alien invasive grass, reduces survival and productivity of an establishing pine forest. *Forest Science* **54**: 579-587.

Collins AR, Jose S, Daneshgar P, and Ramsey CL (2007) Elton's hypothesis revisited: an experiment using cogongrass. *Biological Invasions* **9**: 433-443.

Daneshgar P, Jose S, Ramsey CL, and Collins R (2006) Loblolly pine seedling response to competition from exotic vs. native vegetation. Proceedings of the Thirteenth Biennial Southern Silvicultural Research Conference. Memphis, TN. P 50-51.

REFEREED PUBLICATIONS IN REVIEW OR UNDERGOING REVISION

Guarino KM, Jezycki KE, Webb JA and Daneshgar PP. (IN REVIEW) Photosynthesis Rates of Dwarf Red Mangrove (*Rhizophora mangle*) Along Salinity Gradients in The Bahamas. Submitted to *Hydrobiologia*.

Rodenberg TD, Keiling TD and Daneshgar PP (IN REVIEW) Carbon sequestration of native and invaded dunes. Submitted to *Journal of Coastal Conservation*.

BOOKS

Murchie KJ and PP Daneshgar, editors. (2015) Mangroves as fish habitat. American Fisheries Society, Symposium 83, Bethesda, Maryland.

BOOK CHAPTERS

Daneshgar P and Jose S (2008) Mechanisms of plant invasion. In R.K. Kohli, S. Jose, H.P. Singh, D.R. Batish (eds.), *Invasive Plants and Forest Ecosystems*. CRC Press, Boca Raton, FL.

REFEREED ABSTRACTS

Daneshgar P, Jose S, and Ramsey CL (2004) Loblolly pine seedling response to competition from exotic vs. native vegetation. Book of Abstracts of the 18th North American Forest Biology Workshop, p. 68.

DISSERTATION AND MASTER THESIS

Daneshgar P (2007) *Imperata cylindrica* Invasion in Juvenile *Pinus taeda* Forests: Implications of Diversity and Impacts on Productivity and Nitrogen Dynamics. Doctoral Dissertation. University of Florida, School of Forest Resources and Conservation.

Daneshgar P (2003) Growth Response of Whitebark Pine to Climate in the Pacific Northwest. Master's Thesis. Saint Joseph's University, Department of Biology.

RESEARCH WRITING, OR OTHER CREATIVE WORK IN PROGRESS

Daneshgar PP Using a common party game to teach predator-prey relationships and natural selection. To be submitted to *American Biology Teacher*

PRESENTATIONS AT SCHOLARLY/PROFESSIONAL MEETINGS

INVITED PRESENTATIONS

Daneshgar PP (2017) Carbon sequestration of mangrove flats in The Bahamas. Current Topics in Biology Seminar Series. Brookdale Community College. March 9, Lincroft, NJ.

Daneshgar PP (2015) Global change and invasive species. Brookdale Community College Environmental/Sierra Club. September 28, Lincroft, NJ.

Daneshgar PP (2013) Invasive Plants of New Jersey. New Jersey Wildlife and Conservation Conference. April 26-27, Eatontown, New Jersey.

Daneshgar PP (2011) Impacts of cogongrass on Southeastern forests. Georgian Court University Biology Seminar Series. February 16, Lakewood, New Jersey.

Jose S, Collins A, and Daneshgar P (2007) Elton's hypothesis revisited: Can the species-rich understory of the longleaf pine ecosystem resist invasion by *Imperata cylindrica*? Ecological Society of America and Society of Ecological Restoration Annual Meeting, August 5-10, San Jose, California.

INTERNATIONAL PRESENTATIONS

Curran-Howes A, Schafer J, Daneshgar PP, and Pfeiffer A (2017) Effects of *Casuarina equisetifolia* invasion on understory plant cover, soil, and litter nutrients. Association for Tropical Biology and Conservation. July 9-14, Yucatan, Mexico.

Daneshgar PP, Guarino KM, Jezycki KE, Tiedemann JA (2016) Impacts of increased salinity on mangrove carbon cycling processes. Mangrove and Macrobenthos Meeting. July 18-22. St. Augustine, FL.

Tiedemann JA and Daneshgar PP (2014) Macroinvertebrates as bonefish forage in the mangroves of south Eleuthera. 5th International Bonefish and Tarpon Symposium: 15 Years of Progress. November 7-8, Dania Beach, FL.

Daneshgar PP, Barreto CR and Tiedemann (2014) Selecting potential restoration sites based on carbon sequestration estimates of red mangrove flats in the Bahamas. 2nd International Mangroves as Fish Habitat Symposium. Mazatlan, Mexico.

Daneshgar PP (2013) Carbon sequestration of mangrove flats in Eleuthera, The Bahamas. Bahamas National Natural History Conference. March 5-8. New Providence, Bahamas.

Jose P and Daneshgar P (2007) Diversity and Invasion. 9th International Conference on the Ecology and Management of Alien Plant Invasions. Perth, Australia.

Daneshgar P and Jose S (2007) Impacts of *Imperata cylindrica*, an invasive grass, on the productivity of an establishing pine forest. North American Forest Ecology Workshop, June 18-22. Vancouver, Canada.

NATIONAL PRESENTATIONS

Curran-Howes A, Schafer J, Daneshgar PP, and Pfeiffer A (2017) Effects of *Casuarina equisetifolia* invasion in Eleuthera, The Bahamas. Ecological Society of America Annual Meeting, August 6-11, Portland, OR.

Daneshgar PP (2015) Natural mangrove tidal creek salinity gradients: a tool for assessing the impacts of climate change. 23rd Biennial Conference of the Coastal and Estuarine Research Federation. November 8-12, Portland, OR.

Xu X, Hofmockel K, Daneshgar PP, Polley HW, and Wilsey BJ (2015) Weed invasion as affected by phenology, stability, and precipitation in native- and exotic-dominated grasslands. Ecological Society of America Annual Meeting, August 9-14, Baltimore, MD.

Wilsey BJ, Hofmockel K, Xu X, Daneshgar PP, and Polley HW (2015) Biodiversity and growth asynchrony differences between native and novel exotic-dominated grasslands are associated with aboveground or belowground niche differences among species. Ecological Society of America Annual Meeting, August 9-14, Baltimore, MD.

Wilsey BJ, Daneshgar PP, and Polley HW (2014) Different responses to the 2011 drought between native- and exotic-dominated experimental communities in Texas. American Geophysical Union. December 14-15, San Francisco, CA.

Daneshgar PP, Barreto CR and Tiedemann JA (2013) Carbon sequestration of mangrove flats in Eleuthera, The Bahamas. 22nd Biennial Conference of the Coastal and Estuarine Research Federation. November 3-7, San Diego, CA.

Wilsey BJ, Daneshgar PP, and Polley HW (2013) Different mechanisms underlie diversity-stability relationships between native- and exotic-dominated communities. Ecological Society of America Annual Meeting, August 4-9, Minneapolis, MN.

Daneshgar PP, Wootton LS, and Torres C (2011) The role of beach nourishment on the success of the invasive Asiatic sand sedge. Ecological Society of America Annual Meeting, August 7-12. Austin, Texas.

Kucharczyk R, Daneshgar P, Duckett C, Hirschler C, MacDonald A (2011) Design of a course in sustainable food production for non-science majors at Monmouth University. SENCER Summer Institute. July 21-25. Indianapolis, Indiana.

Wilsey BJ, Daneshgar PP, Polley HW (2010) Biodiversity and temporal niche differences between native- and novel exotic-dominated grasslands. Ecological Society of America Annual Meeting, August 1-6. Pittsburgh, Pennsylvania.

Daneshgar P, Wilsey BJ, Polley HW (2009) Exotic plant traits lead to functional diversity decline in novel ecosystems. Ecological Society of America Annual Meeting, August 2-7, Albuquerque, New Mexico.

Daneshgar P and Jose S (2008) *Pinus taeda* is less efficient at nitrogen uptake in the presence of the invasive grass, *imperata cylindrica* compared to native understory. Ecological Society of America Annual Meeting, August 3-8, Milwaukee, Wisconsin.

Wilsey BJ, Teaschner TB, Daneshgar P, and Polley HW (2008) Biodiversity maintenance mechanisms differ between native and exotic communities. Ecological Society of America Annual Meeting, August 3-8, Milwaukee, Wisconsin.

Daneshgar P and Jose S (2007) *Imperata cylindrica*, an invasive grass, shifts nitrogen pools in a young pine forest. Ecological Society of America and Society of Ecological Restoration Annual Meeting, August 5-10, San Jose, California.

Daneshgar P, Jose S, Ramsey CL, Collins R (2006) Loblolly pine seedling response to competition from exotic vs. native vegetation. Thirteenth Biennial Southern Silvicultural Research Conference. February 28- March 4. Memphis, TN.

Ramsey CL, Jose S, Zamora D and Daneshgar P (2006) Cogongrass control with Chopper and GlyPro Plus when combined with Silwet L-77 and MSO Concentrate. 59th Annual meeting of Southern Weed Science Society. January 23-26, San Antonio, TX.

Ramsey CL, Jose S, Daneshgar P, Collins AR and Brecke BJ (2003) Recovery of *Imperata cylindrica* following imazapyr and tricolpyr applications. 7th Int. Conf. Ecology and Management of Alien Plant Invasions, Nov. 3-7, Ft. Lauderdale, FL.

REGIONAL PRESENTATIONS

Urmston J, Bastian R, and Daneshgar PP (2017) The short and long-term effects of weather and climate variables on the growth of *Pinus rigida* in New Jersey maritime forests. Ecological Society of America Mid-Atlantic Annual Conference. April 21-23. Stockton University, Galloway, NJ.

Klee R, Zimmerman K, and Daneshgar PP (2017) Community Succession After Cranberry Bog Abandonment Within the New Jersey Pinelands. Ecological Society of America Mid-Atlantic Annual Conference. April 21-23. Stockton University, Galloway, NJ.

Sullivan C and Daneshgar PP (2017) The Affects Of Anthropogenic Sourced Nitrogen Deposition on Salt Marshes. Ecological Society of America Mid-Atlantic Annual Conference. April 21-23. Stockton University, Galloway, NJ.

Rodenberg TD, Keiling TD and Daneshgar PP (2015) Carbon sequestration of native and invaded dunes. Mid-Atlantic Ecology Society of America Annual Meeting, April 17-19, Elizabethtown, PA.

James DP, Bohackyj A and Daneshgar PP (2012) impacts of beach nourishment on Asiatic sand sedge invasion. Metropolitan Association of College and University Biologists, October 27, Garden City, New York.

James DP, Daneshgar PP and Wootton LS (2012) Response of the invasive Asiatic sand sedge to beach nourishment. Mid-Atlantic Ecology Society of America Annual Meeting, April 14-15, Blacksburg, Virginia.

MONMOUTH UNIVERSITY RESEARCH PRESENTATIONS

Rodenberg TD, Keiling TD and Daneshgar PP (2015) Carbon sequestration of native and invaded dunes. Fourteenth Annual Student Research Conference. April 24, Monmouth University.

Keiling TD, Rodenberg TD and Daneshgar PP (2015) Carbon sequestration of mangrove sidement in Eleuthera, The Bahamas. Fourteenth Annual Student Research Conference. April 24, Monmouth University.

Stucy AL, Raiano D and Daneshgar PP (2015) Carbon sequestration of salt marshes in the upper Barnegat Bay. . Fourteenth Annual Student Research Conference. April 24, Monmouth University.

Rodenberg TD, Keiling TD, Wriedt AE and Daneshgar PP (2014) Carbon sequestration of native and invaded dunes. 6th Annual Summer Research Program Symposium. August 14, Monmouth University.

Stucy AL, Wriedt AE, Keiling TD, Rodenberg TD, and Daneshgar PP (2014) Challenges in viticulture. 6th Annual Summer Research Program Symposium. August 14 Monmouth University.

Barreto CR and Daneshgar PP (2014) Carbon sequestration of Rhizophora manlge in The Bahamas. Thirteenth Annual Student Research Conference, April 16, Monmouth University.

Barreto CR, Engstrom C, Hitchner L, Phillips LB, Van Ryck Degroot A and Daneshgar PP (2013) Practices in Viticulture. 5th Annual Summer Research Program Symposium. August 13 Monmouth University.

Barreto CR, Engstrom C, Hitchner L, Phillips LB, Van Ryck Degroot A and Daneshgar PP (2013) Effects of Superstorm Sandy on Lake Takanassee in Long Branch, New Jersey. 5th Annual Summer Research Program Symposium. August 13 Monmouth University.

Barreto CR, Engstrom C, Hitchner L, Phillips LB, Van Ryck Degroot A and Daneshgar PP (2013) Comparison of Disturbed and Non-Disturbed Hardwood Forest. 5th Annual Summer Research Program Symposium. August 13 Monmouth University.

Chace P, Gilmartin B, Mickley, M and Daneshgar PP (2012) Early stages in viticulture. 4th Annual Summer Research Program Symposium. August 9, Monmouth University.

James DP, Rhoads L, Bohackyj and Daneshgar PP (2012) Impacts of beach nourishment on Asiatic sand sedge invasion. 4th Annual Summer Research Program Symposium. August 9, Monmouth University.

Barreto CR, Dillon K, Dobra M, Ehret DJ and Daneshgar PP (2012) Implications of invasive species on breeding success of diamondback terrapin. 4th Annual Summer Research Program Symposium. August 9, Monmouth University.

James DP and Daneshgar PP (2012) Response of the invasive Asiatic sand sedge to beach nourishment. Eleventh Annual Student Research Conference. April 18, Monmouth University.

Coviello P, Romandetto A and Daneshgar PP (2012) Utilizing hydroponics to test for allelopathy in Asiatic sand sedge. Eleventh Annual Student Research Conference. April 18, Monmouth University.

Borodonunvich K, Mickley M and Daneshgar PP (2011) Asiatic sand sedge (*Carex kobomugi*) invasive control through differing burial treatments of sand. Second Annual Summer Research Program Symposium. August 11, Monmouth University.

Hewins B, Rhoads L and Daneshgar PP (2011) Biodiversity and ecosystem health of Weltz Park in Oakhurst, NJ. Tenth Annual Student Research Conference. April 15, Monmouth University.

James DP, Romua A and Daneshgar PP (2011) New Jersey garlic mustard (*Alliaria petiolata*) field survey. Tenth Annual Student Research Conference. April 15, Monmouth University.

Eng A and Daneshgar PP (2011) Plant species diversity at Lake Takanassee in West Long Branch, New Jersey in 2011. Tenth Annual Student Research Conference. April 15, Monmouth University.

Torres C and Daneshgar PP (2011) The role of beach nourishment on the success of the invasive Asiatic sand sedge. Tenth Annual Student Research Conference. April 15, Monmouth University.

GRANTS AWARDED

Daneshgar PP (2013) Carbon sequestration in mangrove ecosystems. Monmouth University Grants-in-aid for Creativity. \$1,500.

Tiedemann, JA and Daneshgar PP (2012) The Ecology of Mangrove Ecosystems in Eleuthera, The Bahamas. Fisheries Conservation Federation. \$10,000.

Daneshgar PP and Ehret D (2012) Implications of Invasive Species on Breeding Success of Northern Diamondback Terrapin. Monmouth University Sustainability Advisory Council \$500.

GRANTS APPLIED

Daneshgar PP and Schwebel MB (2017) Assessing Climate Change Induced Impacts On Maritime Forest Ecosystem Services. NJ Sea Grant \$132,872.

Daneshgar PP (2015) RUI: SG: Mangrove Carbon Cycling in Response to a Hypersaline Gradient. National Science Foundation: Division of Environmental Biology. \$150,000.

Daneshgar PP and Ehret D (2012) Implications of Invasive Species on Breeding Success of Northern Diamondback Terrapin. NJ Sea Grant Program Development Grant. \$5000.

PROFESSIONAL SERVICE

Fisheries Conservation Foundation Marine Science Team Panel Reviewer (2015-present)

National Science Foundation, Population and Evolutionary Processes Panel Reviewer (2013)

Peer Reviewer for Journal of Coastal Research, American Biology Teacher; Plant Ecology; Journal of Applied Ecology; American Journal of Botany; Perspectives in Plant Ecology, Evolution and Systematics; USDA; Southern Illinois University's Department of Forestry

PROFESSIONAL MEMBERSHIPS AND OFFICES

Beta Beta Beta (Biology Honors Society)
Gamma Sigma Delta (Honors Society of Agriculture)
Ecological Society of America
Coastal and Estuarine Research Federation
National Association of Biology Teachers

COURSES TAUGHT

Introduction to Biodiversity and Evolution

Botany

Ecology

Tropical Island Ecology

Global Sustainability

First Year Seminar: Playing in the dirt

Senior Seminar for Marine and Environmental Biology and Policy