

Matthew I. Palmer

Ecology, Evolution, and Environmental Biology - Columbia University
1200 Amsterdam Ave., MC 5557, New York, NY 10027
Phone: 212.854.4767 Fax: 212.854.8188
mp2434@columbia.edu

Professional Preparation

Cornell University Natural Resources B.S. with distinction, 1996
Rutgers University Ecology and Evolution Ph.D., 2005

Appointments

2013-present Senior Lecturer and Director of Undergraduate Studies
Ecology, Evolution, and Environmental Biology, Columbia University
2009-present Adjunct Assistant Professor, International and Public Affairs, Columbia U.
2005-2013 Lecturer and Director of Undergraduate Studies
Ecology, Evolution, and Environmental Biology, Columbia University
2007-2009 Visiting Scientist, Plant Biology and Pathology, Rutgers University
2000-2005 Part-time Lecturer, Ecology, Evolution & Natural Resources, Rutgers University
1998 Educator and Naturalist, Bowman's Hill Wildflower Preserve
1996-1997 Laboratory Manager/Research Technician, Natural Resources, Cornell University

Selected Recent Publications:

McGuire, K.L., S.G. Payne, G. Orazi, and M.I. Palmer. 2015. Bacteria and Fungi in Green Roof Ecosystems. In R.K. Sutton (Ed.), Green Roof Ecosystems. Springer.

Falxa-Raymond, N., **M.I. Palmer**, P.T. McPhearson, and K. Griffin. 2014. Foliar nitrogen characteristics of four tree species planted in New York City forest restoration sites. *Urban Ecosystems* 17:807-824.

Jain, M., D.F.B. Flynn, C.M. Prager, G.M. Hart, C.M. DeVan, F.S. Ahrestani, **M.I. Palmer**, D.E. Bunker, J.M.H. Knops, C.F. Jouseau, and S. Naeem. 2014. The importance of rare species: a trait-based assessment of rare species contributions to functional diversity and possible ecosystem function in tall-grass prairies. *Ecology and Evolution* 4:104-122.

McGuire, K.L., S.G. Payne, **M.I. Palmer**, C.M. Gillikin, D. Keefe, S.J. Kim, S.M. Gedalovich, J. Discenza, R. Rangamannar, J.A. Koshner, A.L. Massmann, G. Orazi, A. Essene, J.W. Leff, and N. Fierer. 2013. Digging the New York City skyline: Soil fungal communities in green roofs and city parks. *PLoS ONE* 8(3): e58020.
doi:10.1371/journal.pone.0058020

Flynn, D.F.B., N. Mirotnick, M. Jain, **M.I. Palmer**, and S. Naeem. 2011. Functional and phylogenetic diversity as predictors of biodiversity-ecosystem function relationships. *Ecology* 92:1573-1581.

Craig, E.C., S.B. Elbin, J.A. Danoff-Burg, and **M.I. Palmer**. 2012. Impacts of Double-crested Cormorants (*Phalacrocorax auritus*) and other colonial waterbirds on plant and arthropod communities on islands in an urban estuary. *Waterbirds* 35(SP1):4-12.

Martin, M. C.M. Peters, **M.I. Palmer**, and C. Illsley. 2011. Regeneration of wild *Agave cupreata* in Guerrero, Mexico. *Forest Ecology and Management* 262:1443-1451.

McPhearson, P.T., M. Feller, A. Felson, R. Karty, J.W.T. Lu, **M.I. Palmer**, and T. Wenskus. 2010. Assessing the Effects of the Urban Forest Restoration Effort of MillionTreesNYC on the Structure and Functioning of New York City Ecosystems. *Cities and the Environment* 3(1): 21 pp.

Related Activities:

Instructor, TREES Summer Teacher Training Institute
Co-designed and taught in an NSF-funded summer professional development program for middle school teachers in NYC public schools

Science and Education Advisor, Community + Community Enterprise for Restoration Science
Developing science education materials and providing training to middle school teachers for an NSF-funded program to teach STEM skills and content using urban ecosystems

Member, Natural Areas Committee Advisory Board, New York City Parks and Recreation; Participating in a committee of scientists to advise the Parks department on the management of natural areas throughout the city

Institutional Representative for Columbia to the Black Rock Forest Consortium

Courses Taught:

Environmental Biology II (Evolution and Ecology section), Thesis Research Seminar (Undergraduate), Field Botany and Plant Systematics, Forest Ecology, Urban Ecology and Design, Introduction to Statistics for Ecology and Evolution, Herpetology, Environmental Policy Workshop (SIPA), Principles of Ecology/Urban Ecology (SIPA), Biodiversity and Conservation (EICES short course), Forest Management and Conservation (EICES short course)

Professional Memberships:

Ecological Society of America
Botanical Society of America
Torrey Botanical Society
Philadelphia Botanical Club
New York Flora Association
Flora of New Jersey Project