

CASE MAHONE PRAGER
Columbia University
Department of Ecology, Evolution and Environmental Biology
1200 Amsterdam Avenue
New York, New York, 10027
E-Mail: cmp2160@columbia.edu

EDUCATION

- 2016 (*expected*) Ph.D., Columbia University, Department of Ecology, Evolution and Environmental Biology (E3B)
Advisers: Shahid Naeem and Kevin Griffin
- 2011 M.A., Columbia University, Department of Ecology, Evolution and Environmental Biology (Conservation Biology)
Adviser: Shahid Naeem
- 2008 B.A., Occidental College, *Summa Cum Laude* (Science and Society; Spanish Cultural Studies)
- 2005-6 Duke University, Organization for Tropical Studies (OTS) Semester in South Africa (Fall 2005); Summer courses: Ethnobiology (2006) and Tropical Biology (2005)

FELLOWSHIPS, HONORS AND AWARDS

- 2011-2016 Fellow, National Science Foundation Graduate Research Fellowship Program (NSF- GRFP)
- 2011-2016 Faculty Fellowship, Columbia University
- 2008-2009 Fulbright Fellowship (Ecuador; Biology)
- 2008 Phi Beta Kappa
- 2008 Mortar Board National Senior Honor Society
- 2007-2008 Arnold and Mabel Beckman Program Scholars Award
- 2007 National Science Foundation Research Experience for Undergraduates (NSF-REU)

GRANTS

- 2011 Exploration Fund Grant, Explorer's Club (\$1,500)
- 2011 Ecology, Evolution and Environmental Biology Department Grant, Columbia University (\$2,500)

TEACHING EXPERIENCE

- 2010-2014 Teaching Assistant, Columbia University (Department of Ecology, Evolution and Environmental Biology)
Courses: Environmental Biology I and II (two semester undergraduate core biology course for majors); Conservation Biology (graduate-level); Conservation Biology (undergraduate-level)

- 2012 Teaching Assistant, School of International and Public Affairs (SIPA),
Columbia University)
Courses: Introduction to Ecology; Urban Ecology
- 2006-2008 Teaching Assistant, Occidental College (Department of Biology)
Courses: Biodiversity; Biology of California

PROFESSIONAL AND VOLUNTEER EXPERIENCE

- 2012 - present Coordinator (Columbia), Penn, Princeton, Rutgers, Columbia (PPRC)
Student Ecology and Evolution Conference (annual conference)
- 2014 Academic Administration Intern, Office of the Provost, Columbia
University
- 2012 Representative, Graduate School of Arts and Sciences Council,
Columbia University (E3B representative)
- 2011 Member, Earth Institute Student Advisory Council
- 2009 - 2010 Student Representative, E3B (student representative to the faculty)
- 2006 - 2007 Museum Curatorial Assistant, Moore Laboratory of Zoology (MLZ),
Occidental College

PUBLIC OUTREACH

- 2015 Co-presenter (with Shahid Naeem), Anne Lamount Memorial Lecture,
all-school assembly at The Spence School, New York City. Talk Title:
“The importance and magnificence of our rich and vibrant world.”
- 2011 Section co-organizer, Girls Science Day, Columbia University.
- 2010 Volunteer, Discovery Room, American Museum of Natural History
(AMNH)
- 2008 Team leader (with Beth Braker), National Geographic Bioblitz, Santa
Monica Mountains, CA.

PUBLICATIONS

8. Greaves, H.E., L.A. Vierling, J.U.H. Eitel, N.T. Boelman, T.S. Magney, C.M. Prager, K.L. Griffin. (*in review*). Fine-scale mapping of aboveground shrub biomass in Arctic tundra using terrestrial and airborne lidar.
7. Boelman, N.T., T.S. Magney, B.A. Logan, K.L. Griffin, J.U.H. Eitel, H. Greaves, C.M. Prager, and L.A. Vierling. (*in revision*). Spectral determination of concentrations of functionally diverse pigments in increasingly complex arctic tundra canopies.

6. Magney, T.S., B.A. Logan, K.L. Griffin, J.U.H. Eitel, N.T. Boelman, J.T. Abatzoglou, H. Greaves, **C.M. Prager**, L. Fortin, R. Oliver, S. Eusden, and L.A. Vierling. (*in review*). Enhanced xanthophyll cycle activity in arctic willow contrasted with a meta-analysis of higher plant species.
5. Magney, T.S., J.U.H. Eitel, K.L. Griffin, N.T. Boelman, H. Greaves, **C.M. Prager**, B.A. Logan, G. Zheng, L. Ma, L. Fortin, R. Oliver³, and L.A. Vierling (*in revision*). LiDAR Canopy Radiation Model Reveals Patterns of Photosynthetic Partitioning in an Arctic Shrub.
4. **Prager, C.M.**, A. Varga, P. Olmsted, C. Ingram, M. Cattau, C. Freund, R. Wynn-Grant and S. Naeem. (*accepted*) An assessment of adherence to basic ecological guidelines by Payments for Ecosystem Service projects. *Conservation Biology*.
3. Greaves, H.E., L.A. Vierling, J.U.H. Eitel, N.T. Boelman, T.S. Magney, **C.M. Prager**, and K.L. Griffin. 2015. Estimating aboveground biomass and leaf area of low-stature Arctic shrubs with terrestrial LiDAR. *Remote Sensing of Environment*. 164: 26-35.
2. Naeem, S., J.C. Ingram, A. Varga, T. Agardy, P. Barten, R. Benner, G. Bennett, E. Bloomgarden, L.L. Bremer, P. Burkill, M. Cattau, C. Ching, M. Colby, D.C. Cook, R. Costanza, F. Declerck, C. Freund, T. Gartner, J. Gunderson, D. Jarrett, A.P. Kinzig, A. Kiss, A. Koontz, P. Kumar, J. R. Lasky, S. Lynch, M. Masozera, D. Meyers, F. Milano, L. Naughton, E. Nichols, L. Olander, P. Olmsted, E. Perge, C. Perrings, S. Polasky, J. Potent, **C.M. Prager**, F. Quétier, K. Redford, K. Saterson, S. Swinton, G. Thoumi, M. Van Patten, M.T. Vargas, S. Vickerman, W. Weisser, D. Wilkie, S. Wunder. 2015. Get the Science Right when Paying for Nature's Services. *Science*. 347(6227): 1206-1207.
1. Jain, M., D.F.B. Flynn, **C.M. Prager**, G.M. Hart, C.M. Devan, F. Ahrestani, M.I. Palmer, D.E. Bunker, J.M.H. Knops, C.F. Jouseau, S. Naeem. 2014. The importance of rare species. A trait-based assessment of the potential for rare species to contribute to ecosystem function in tall-grass prairies. *Ecology and Evolution*. 4(1): 104-112.

PRESENTATIONS

8. **Prager, C.M.**, N. Boelman, H. Greaves, K.L. Griffin, J.U.H. Eitel, T. Magney, L.A. Vierling and S. Naeem. "Plant diversity effects on carbon cycling in the Arctic." Ecological Society of America Annual Meeting, Baltimore, MD, 2015.
7. **C.M. Prager**, Greaves, H.E., L.A. Vierling, J.U.H. Eitel, N.T. Boelman, T.S. Magney and K.L. Griffin. "Leaf-level physiological responses to nutrient enrichment: Lessons from the Arctic." Arctic Long-term Ecological Research (ARC LTER) Annual Meeting, Marine Biological Laboratory, Woods Hole, MA, February 28, 2015.
6. Magney, T.S., K.L. Griffin, N.T. Boelman, J.U.H. Eitel, H.E. Greaves, **C.M. Prager**, B.A. Logan and L.A. Vierling. "Evidence of canopy photosynthetic optimization in arctic shrubs from ground based remote sensing, radiative transfer modeling, and physiological measurements." American Geophysical Union Annual Meeting, San Francisco, CA, 2014.
5. Naeem, S., B.C. Weeks, **C.M. Prager**, A. Varga, B. Muscarella and S. Wood. "Herbivore-induced dissolution of the dimensional structure of biodiversity's association with ecosystem

functioning: Impacts of deer exclusion on biodiversity and ecosystem functioning in a temperate forest.” Ecological Society of America Annual Meeting, Sacramento, CA, 2014.

4. Jain, M., G.M. Hart, C.M. Devan, **C.M. Prager**, D. Flynn, F.S. Ahrestani, D.E. Bunker, M.I. Palmer, S.M. Smukler, J. Sircely and S. Naeem. “Commonness and rarity of species: Does species' rank influence contribution to ecosystem function?” Ecological Society of America Conference, Pittsburgh, PA, August 1-5, 2010.
3. **C.M. Prager**. “Understanding invasion in the Galapagos archipelago, Ecuador.” Fulbright Andean Seminar in Lima, Peru, April 2009.
2. **C.M. Prager**, V. Carmona-Galindo and H.E. Braker. “Nectary and leaf deployment variation of the exotic plant *Ricinus communis* L. (Castor Bean) across temperate and tropical landscapes.” Ecological Society of America Conference in Milwaukee, Wisconsin, August 3-8, 2008.
1. **C.M. Prager**, V. Carmona-Galindo, H.E. Braker. “Nectary and leaf deployment variation of the exotic plant *Ricinus communis* L. (Castor Bean) across temperate and tropical landscapes.” Beckman Scholar Program Conference in Irvine, California, July 23-25, 2008.

SKILLS AND CERTIFICATIONS

Languages: Spanish and English (native)

Programs: R, Sigma Scan Pro, ENVI, Image J

Other: Wilderness First Responder, FAA Private Pilot’s License (Single Engine Propeller, VFR), PADI Advanced Open Water Diver