

Emily Reiss

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EDUCATION

Cornell University, Ithaca, NY

- Research focus: The effect of biodiversity on ecosystem function in agricultural systems
- Ph.D., Horticulture Spring 2017
- M.S., Horticulture 2015
- Advisor: Dr. Laurie Drinkwater, Committee members: Dr. Katja Poveda and Dr. Matthew Ryan

University of Rochester, Rochester, NY

2008

- B.S., Environmental Science, Highest Honors with Distinction in Research, Cum Laude, Senior thesis: Potential of Triploid English Ivy As a Less Invasive Substitute
- Minors in Spanish and Biology, cluster of courses in Anthropology

RESEARCH EXPERIENCE

Cornell University, Ithaca, NY

GRADUATE RESEARCH ASSISTANT, HORTICULTURE 2011-Present

Hawthorne Valley Farm, Hillsdale, NY

INTERN, FARMSCAPE ECOLOGY PROGRAM Summer 2011

University of Rochester, Rochester, NY

RESEARCH ASSISTANT

Dr. Justin Ramsey (Biology) 2006–2008

Dr. Robert Minckley (Biology) 2005-2007

Rutgers University, New Brunswick, NJ

RESEARCH ASSISTANT

Dr. Arend-Jan Both, (Agricultural Extension) Summer 2005

PRESENTATIONS AND PUBLICATIONS

Research Presentations

- Keynote presentation, “Weed suppression by cover crops mixtures using intra- and interspecific diversity” International Weed Science Congress, Prague, Czech Republic, June 2016.
- Poster. “The effect of intra- and interspecific diversity of cover crops on ecosystem services in agricultural systems” Ecological Society of America Annual Meeting, Baltimore, MD, August 2015.
- Invited presentation. “Can ecological knowledge be used to design cover crop mixtures that provide multiple ecosystem services?” Ecological Society of America Annual Meeting, Sacramento, CA, August 2014.

Extension Presentations

- Presentation of on-farm research results and facilitator. Session two of four: Managing Soils for Better Crops, Groundswell Center for Local Food and Farming. Ithaca, NY. May 2016.

- Poster. "The effect of intra- and interspecific diversity of cover crops on ecosystem services in agricultural systems" New York State Producers Expo. Syracuse, NY. January 2016.
- Presentation. "How Cover Crops Benefit Soil Health", Cover Crop and Reduced Tillage Workshop for Organic Vegetable Growers, USDA-NRCS Plant Materials Center, Big Flats, NY. October 2015.
- Presentation. "How Cover Crops Benefit Soil Health", Soil Health Field Day, Cornell Cooperative Extension of Delaware County. September 2015.
- Presentation. "Diversifying your management: incorporating cover crops and crop rotations for improved soil health". E. Reiss and J. Liebert. Cornell Soil Health Workshop. Ithaca, NY. August 2015.
- Presentation. "Nutrient Management: Why Keep Good Records?", Farm Skills Workshop: Understanding Soil. Hawthorne Valley Farm. October 2011.

Publications

- **Reiss, E.,** L.E. Drinkwater. Cultivar mixtures: A meta-analysis of the effect of intraspecific diversity on crop yield. Manuscript submitted for review. Ecological Applications.
- **Reiss, E.** 2008. Potential of Triploid English Ivy (*Hedera* spp., Araliaceae) As a Less Invasive Substitute. Journal of Undergraduate Research. 7(1):39-42.

TEACHING EXPERIENCE

Cornell University, Ithaca, NY

GRADUATE TEACHING ASSISTANT FELLOW 2015-2016

Cornell Center for Teaching Excellence (CTE) program to support graduate student teaching assistants in their pursuit of pedagogical innovation and excellence through coursework (Teaching in Higher Education) development of CTE workshops and peer TA training programs to develop their leadership and mentorship skills in teaching.

TEACHING ASSISTANT

Ecology of Agriculture Fall 2012-15
 Woody Plant Identification and Creating the Urban Eden Spring 2014
 Hands On Horticulture Spring 2013

GUEST LECTURER

Sustainable Agricultural Systems Fall 2015, 16
 Ecology of Agriculture Fall 2012-15
 Woody Plant Identification and Creating the Urban Eden Spring 2014
 Hands On Horticulture Spring 2013
 Environmental Conservation Conversations Fall 2011

Bard College, Annandale-on-Hudson, NY

GUEST LECTURER

Climate and Agroecosystems Fall 2016

University of Rochester, Rochester, NY

TEACHING ASSISTANT

Introductory Ecology Fall 2007

AWARDS

Matthias Prager Homan Graduate Research Fund Travel Award 2016
 Northeast Sustainable Agriculture Research and Education, Graduate Student Grant 2012-2015

Graduate School Fellowship, Cornell University
Travel Grant, Society of Horticulture Graduate Students

2011-2012
2011, 2016

ACADEMIC SERVICE AND MEMBERSHIPS

New World Agriculture and Ecology Group, Member, Treasurer (2012), President (2013-2015)
Cornell Biogeochemistry and Environmental Science and Sustainability (BESS) Graduate Student Association
Cornell Society of Horticulture (SoHo) Graduate Students
Grant Review Panelist: Cornell Biogeochemistry NSF IGERT small grants, SoHo travel grants
Tour guide, Cornell Orchards
Ecological Society of America
Weed Science Society of America
International Weed Science Society
Sigma Xi

COURSEWORK

Graduate work at Cornell University: Weed Ecology and Management (undergraduate and graduate levels), Soil Science, Statistical Methods, Agroecology Reading Seminar, Principles of Biogeochemistry, Spatial Modeling and Analysis, Plant Physiology and Yield, Seminar in Horticulture

Undergraduate work at University of Rochester: Ecosystem Services, Ecology, Biology I-II, Environmental Politics, Green Engineering, Atmospheric Chemistry, Remote Sensing and GIS, Environmental Geophysics, Hydrology, Introductory and Organic Chemistry, Physics I-II, Calculus I-III

PROFESSIONAL HISTORY

Manager of Multifamily Buildings, Energy Efficiency Consultant

BRIGHT POWER INC., NEW YORK, NY

2009-2011

- Worked with a variety of clients to assess energy usage, develop efficiency goals and budgets.
- Performed on-site energy audits of market-rate and affordable housing properties to identify areas of energy savings.

Program Assistant

ONE TO WORLD, NEW YORK, NY

2008-2009

- Managed support operations for nine-person international education and citizenship organization, including website and volunteers