

# Nash E. Turley

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University of Central Florida  
Department of Biology, 4110 Libra Drive  
Orlando, Florida, 32816-2368  
Email: nashuagoats@gmail.com; Cell phone: 517.898.0425  
Website: www.nashturley.org

## CURRENT POSITION

Postdoctoral research associate – University of Central Florida, USA.  
Research project: “Plant-Pollinator Citizen Science Network”  
Advisors: Dr. Barbara J. Sharanowski

## PREVIOUS POSITION

2014-2017 – Postdoctoral research associate – Michigan State University, USA.  
Research project: “Impacts of agricultural land-use legacies and restoration on biodiversity in longleaf pine savannas”  
Advisors: Dr. Lars A. Brudvig and Dr. John L. Orrock

## EDUCATION

2014 – Ph.D. Department of Ecology and Evolutionary Biology, University of Toronto, Canada.  
Thesis: “Ecological and evolutionary consequences of herbivory on plant communities”  
Advisor: Dr. Marc T. J. Johnson

2008 – Bachelor of Science. University of Washington, USA.  
Major: Biology (environment & conservation)  
Research project: “Effects of habitat fragmentation on plant-herbivore interactions”  
Research advisor: Dr. Joshua J. Tewksbury

## TEACHING

2017 – Instructor. Ecology (ZOL 355). Kellogg Biological Station, Michigan State University.  
2016 – Teaching certificate. Pathways to Scientific Teaching, Department of Plant Biology, Michigan State University, course taught by Dr. Diane Ebert-May  
2016 – Guest lecturer. Evolution section of introductory biology course  
2014 – Teaching assistant. Functional morphology of animals  
2013 – Guest lecturer. Natural history and ecology of parasites and predators  
2013 – Teaching assistant. Introduction to ecology  
2012 – Guest lecturer. Ecological and evolutionary effects of herbivory and competition on plant communities at Silwood Park, England  
2011 – NC State University Outstanding Teaching Assistant Award  
2011 – Guest lecturer. Evolutionary ecology of plant-herbivore interactions  
2010 – Teaching assistant. Introduction to ecology  
2009 – Teaching assistant. Introduction to ecology

## UNDERGRADUATE MENTORING

2015-present – Mary Linabury  
2014-present – Carrie Barker  
2013-2014 – James Santangelo  
2012-2013 – Teresa Didiano  
2009-2010 – Walter Odell

## PUBLICATIONS \* = Undergraduate mentees

In press– Turley NE, Orrock JL, Ledvina JA, Brudvig LA. Dispersal and establishment limitation slows plant community recovery on post-agricultural longleaf pine savannas. **Journal of Applied Ecology**.

In press– Brudvig LA, Barak RS, Bauer JT, Caughlin TT, Laughlin DC, Larios L, Matthews JW, Stuble KL, Turley NE, Zirbel CR. Interpreting variation to advance predictive restoration science. **Journal of Applied Ecology**.

2016 – Turley NE, Brudvig LA. Agricultural land-use history causes persistent loss of plant phylogenetic diversity. **Ecology**. (97) 2240–2247.

2015 – Palkovacs EP, Fryxell DC, Turley NE, Post DM. Ecological effects of intraspecific consumer biodiversity for aquatic communities and ecosystems. In *Aquatic Functional Biodiversity*. Belgrano A, Woodward G (editors). Academic Press.

2015 – Turcotte MM, Lochab AK, Turley NE, Johnson MTJ. Plant domestication slows pest evolution. **Ecology Letters**. (18) 907-915.

2015 – Santangelo J\*, Turley NE, Johnson MTJ. Fungal endophytes of *Festuca rubra* increase in frequency following long-term exclusion of rabbits. **Botany**. (93) 233-241.

2015 – Turley NE, Johnson MTJ. Ecological effects of aphid abundance, genotypic variation, and contemporary evolution on plants. **Oecologia**. (178) 747-759.

2014 – Turcotte MM, Turley NE, and Johnson MTJ. The impact of domestication on resistance to two generalist herbivores across 29 independent domestication events. **New Phytologist**. (204) 671–681

2014 – Didiano TJ\*, Turley NE, Schaefer H, Everwand G, Crawley MJ, Johnson MTJ. Experimental test of plant defense evolution in four species using long-term rabbit exclosures. **Journal of Ecology**. (102) 584–594.

2013 – Evans DM, Turley NE, Tewksbury JJ. Habitat edge effects alter ant-guard protection against herbivory. **Landscape Ecology**. (28) 1743-1754.

2013 – Turley NE, Odell WC\*, Schaefer H, Everwand G, Crawley MJ, Johnson MTJ.

Contemporary evolution of plant growth rate following experimental removal of herbivores. **American Naturalist**. (181) S21–S34.

2013 – Turley NE, Godfrey RM, Johnson MTJ. Evolution of mixed strategies of plant defense against herbivores. **New Phytologist**. (197) 359–361.

2012 – Evans DM, Turley NE, Levey DJ, Tewksbury JJ. Habitat patch shape, not corridors, determines herbivory and fitness of a model plant species. **Ecology**. (93) 1016-1025.

2012 – Woods EC, Hastings AP, Turley NE, Heard SB, Agrawal AA. Adaptive geographical clines in the growth and defense of a native plant. **Ecological Monographs**. (82) 149-168.

2011 – Hersch-Green EI, Turley NE, Johnson MTJ. Community genetics: what have we accomplished and where should we be going? **Philosophical Transactions of the Royal Society B**. (366) 1453-1460.

#### PAPERS IN PREPARATION

Breland S, Gibbs J, Isaacs R, Turley NE, Brudvig LA. Restoration increases bee abundance and richness but not pollination in remnant and post-agricultural longleaf pine woodlands.

Barker CA\*, Turley NE, Orrock JL, Ledvina JA, Brudvig LA. Post-agricultural soils do not limit plant establishment and growth.

des Roches S, Post DM, Turley NE, Bailey JK, Hendry AP, Kinnison MT, Schweitzer JA, Palkovacs EP. Ecological effects of variation within species.

Turley NE, Davies TJ, Schaefer H, Crawley MJ. Long-term herbivore exclusion and nutrient addition interact to shape plant species richness and phylogenetic diversity.

#### GRANTS

2013 – Sigma Xi Grant In Aid of Research. \$1000

2010 – National Science Foundation Graduate Research Fellowship. \$91,000

2010 – Arthur B. Moss Travel Award. \$500

2009 – North Carolina State University Provost Fellowship. \$4000

2008 – NSF Travel Award. \$1000

2008 – Frye Hotson Rig Endowment. \$300

2007 – Mary Gates Scholar. \$6000

2007 – Frye Hotson Rig Endowment. \$2000

#### PRESENTATIONS

2017 – Southern Section of the American Society for Plant Biologists, Orlando, FL, USA.

2016 – Ecological Society of America. Fort Lauderdale, FL, USA. \*Invited talk.

2015 – Ecological Society of America. Baltimore, MA, USA.

2015 – Ecology and Evolutionary Biology Symposium. Michigan State University, MI, USA.

2014 – Ecological Society of America. Sacramento, CA, USA.

- 2014 – Canadian Society of Ecology and Evolution. Montreal, QC, Canada.
- 2013 – Canadian Society of Plant Biologist. Mississauga, ON, Canada.
- 2013 – Ecological Society of America. Minneapolis, MN, USA.
- 2013 – Ontario Ecology, Ethology, and Evolution Colloquium. London, Ontario, Canada.
- 2013 – Gordon Conference on Plant-Herbivore Interactions. Ventura, CA, USA.
- 2012 – Joint congress on Evolutionary Biology. Ottawa, Ontario, Canada.
- 2011 – Symposium on Insect Plant Interactions. Wageningen, The Netherlands.
- 2011 – Ecological Society of America. Austin, TX, USA.
- 2010 – Sigma Xi Research Conference. Raleigh, NC, USA.
- 2009 – Ecological Society of America. Albuquerque, NM, USA.
- 2008 – Ecological Society of America. Milwaukee, WI, USA.

### OUTREACH

- 2017 – K-12 STEM day at University of Central Florida.
- 2012 – Two field courses for 6-8<sup>th</sup> grade students at the Peel Summer Academy on Natural History and Ecology
- 2011 – NC Natural History Museum, poster presentation on “How humans benefit from the evolution of plant dispersal mechanisms”
- 2011 – JY Joyner Elementary Science-Go-Round, four second grade presentations on plant diversity
- 2010 – Apex Elementary Science Spectacular, four fifth grade presentations on ecology of plant life cycles
- 2010 – River Oaks Middle School for At-risk Students, Intro to ecology and evolution and a career in science
- 2010 – Fred Olds Elementary School, plant ecology introduction and DNA extraction exercise
- 2010 – Bugfest volunteer, North Carolina Museum of Natural Sciences
- 2009 – Entomology Graduate Student Association, NCSU. Four presentations to K-12 youth on entomology
- 2009 – Bugfest volunteer, North Carolina Museum of Natural Sciences
- 2009 – Northern Mariana Islands, Saipan Southern High School, presentation on ecology of bird loss

### PREVIOUS RESEARCH POSITIONS

- 2009 – Research assistant, Ecology of Bird Loss Project, Mariana Islands. Supervisors: Dr. Joshua J. Tewksbury, Dr. Janneke HilleRisLambers, Dr. Ross Miller, Dr. Haldre Rogers
- 2008 – Research associate, Corridor Project, Savannah River Site, SC. Supervisors: Dr. Joshua J. Tewksbury, Dr. Lars A. Brudvig
- 2007 – REU researcher, Corridor Project, Savannah River Site, SC. Supervisors: Dr. Joshua J. Tewksbury, Dr. Lars A. Brudvig
- 2006-2007 – Field assistant, University of Washington. Supervisor: Dr. Michael Beecher, Dr. Chris Templeton

### REVIEWER FOR

- 2016 – Ecology, Ecology Letters (2), Journal of Applied Ecology, National Science Foundation
- 2015 – PNAS, Oecologia (2), PeerJ, Oikos, Functional Ecology, Torrey Botanical Society

2014 – Functional Ecology  
2013 – Ecological Entomology  
2012 – Botany  
2011 – Oecologia, Oikos, Trends in Plant Science  
2010 – Ecology Letters, Functional Ecology, Oecologia  
2009 – Ecology, Entomologia Experimentalis et Applicata, Oikos

#### SOCIETY MEMBERSHIPS

Ecological Society of America\*, The Xerces Society for Invertebrate Conservation, Union of Concerned Scientist, The Stewardship Network

\*Social media coordinator for the Natural History Section.

#### ADDITIONAL SKILLS AND ACTIVITIES

Photography – I specialize in macro photography of plants and arthropods.  
[www.nashturley.org/photos/](http://www.nashturley.org/photos/)

Natural History – I am an avid naturalist and spend much of my free time bird watching and seeking out, identifying, and photographing plants and arthropods.

Blogging – I actively blog about natural history at my website: [www.nashturley.org](http://www.nashturley.org) and post natural history inspired art at [www.naturalhistorysketches.tumblr.com](http://www.naturalhistorysketches.tumblr.com). I have also written about the importance of understanding and addressing mental health in academia (<http://www.nashturley.org/2013/09/02/acknowledging-and-addressing-mental-health-issues-among-graduate-students/>), which lead to me being interviewed for a *Science Careers* article (<http://www.sciencemag.org/careers/2014/02/paying-graduate-schools-mental-toll>)