Sean R. Griffin

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Education

MICHIGAN STATE UNIVERSITY, EAST LANSING, MI STARTED JAN 2018

- PhD student in Integrative Biology
- Located at W.K. Kellogg Biological Station
- Advisor: Dr. Nick Haddad

NORTH CAROLINA STATE UNIVERSITY, RALEIGH, NC 2016-2017

- PhD student in Biology Graduate Program - *transferred to MSU with graduate advisor*
- Advisor: Dr. Nick Haddad
- NCSU Provost Fellow (2016)

RUTGERS UNIVERSITY, NEW BRUNSWICK, NJ 2012-2015

- MS student in Ecology and Evolutionary Graduate Program
- Advisor: Dr. Rachael Winfree
- NSF IGERT Fellow (2012-2015)

CORNELL UNIVERSITY, ITHACA, NY 2007-2011

- B.S. Entomology
- Distinction in research - *magna cum laude*

Publications

Hawn, C.L, N.M. Haddad, **S.R. Griffin**, J. Herrmann. *Accepted.* Connectivity increases food web subsidies in fragmented landscapes. *Ecology Letters.*

Ogilvie, J.E., **S.R. Griffin**, Z.J. Gezon, D.W. Inouye, and R.E. Irwin. 2017. Climate, flowering phenology, and bumble bee abundance. *Ecology Letters.*

Griffin, S.R., B. Bruninga-Socolar, M. Kerr, J. Gibbs, and R. Winfree. 2017. Wild bee community change over a 26-year chronosequence of restored tallgrass prairie. *Restoration ecology*. 25(4): 650-660.

Rader, R., Bartomeus, I.,…, **S.R. Griffin, S.R.**,…, and M. Woyciechowski. 2015. Wild insects other than bees are important contributors to global crop production. *PNAS.* 113(1): 146-151.

Hoebeke, R.E. and **S.R. Griffin.** 2015. First record of the Palearctic root weevil Otiorhynchus porcatus (Herbst) (Coleoptera: Curculionidae: Entiminae) in the United States and additional records of other adventive weevils occurring on the Isles of Shoals (Maine and New Hampshire). *Coleopterists Bulletin.* 69(4): 1–8.

Seeley, T.D., D.R. Tarpy, **S.R. Griffin,** A. Carcione and D.A. Delaney. 2015. A survivor population of wild colonies of European honeybees in the northeastern United States: investigating its genetic structure. *Apidologie.* 46(5): 654-666.

Griffin, S.R., M.L. Smith, and T.D. Seeley. 2012. Do honeybees use the directional information in round dances to find nearby food sources? *Animal Behaviour*. 83: 1319-1324.

Seeley, T.D. and **S.R. Griffin**. 2010. Small-cell comb does not control *Varroa* mites in colonies of honeybees of European origin. *Apidologie.* 42: 526-532.

Rangel, J., **S.R. Griffin**, and T.D. Seeley. 2010. Nest-site defense by competing honey bee swarms during house hunting. *Ethology.* 116: 608-618.

Rangel, J., **S.R. Griffin**, and T.D. Seeley. 2010. An oligarchy of nest-site scouts triggers a honeybee swarm's departure from the hive. *Behavioral Ecology and Sociobiology*. 66: 979-987.

Publications in Preparation

Pardee, G.L., **S.R. Griffin**, M. Stemkovski, D. Inouye, and R.E. Irwin. *In prep.* Examining the effects of environmental variables on bee functional traits.

Bruninga-Socolar, B., **S.R. Griffin**, J. Gibbs, and R. Winfree. *In prep.* Bee traits predict species diversity and abundance in restored tallgrass prairie.

Griffin, S.R., B. Bruninga-Socolar, and J. Gibbs. *In prep.* Direct versus indirect effects of restoration management on bee communities of a tallgrass prairie.

Griffin, S.R. and N. Haddad. *In prep.* Corridors act as drift fences to facilitate habitat colonization by solitary bees.

Presentations

Griffin, S. R., B. Bruninga-Socolar, M. Kerr, J. Gibbs, and R. Winfree. "Wild bee community change over a 26-year chronosequence of restored tallgrass prairie."

- Oral presentation, *Entomological Society of America Annual Meeting* (Minneapolis, MN) November 2015

Griffin, S. R., B. Bruninga-Socolar, and J. Gibbs. "Direct and indirect effects of restoration management on wild bee communities of a restored tallgrass prairie."

- Invited oral presentation, Ecological Society of America Annual Meeting (Portland, OR) August 2017

Awards and Grants

2018 Friends of Nachusa Grasslands Research Science Grant ($2918)

2017 Prairie Biotic Research Grant from Prairie Biotic Research, Inc ($1000)

2017 Friends of Nachusa Grasslands Research Science Grant ($5267)

2016 North Carolina State University Provost Fellowship ($32,000 stipend)

2014 North Central Region Sustainable Agriculture Research & Education Graduate Student Grant ($9869, *declined*)

2014 Graduate School Special Study Award from Rutgers Graduate School ($1200)

2014 Ted Stiles Memorial Grant from Rutgers Ecology and Evolution Department ($1500)

2014 Attachment to NIFA grant from the North Central Canola Research Program ($5998)

2014 Prairie Biotic Research Grant from Prairie Biotic Research, Inc ($1000)

2014 Theodore Roosevelt Memorial Fund from AMNH ($2500)

2013 Rutgers Department of Ecology and Evolution Small Grant ($1000)

2012 Rutgers University IGERT for Renewable and Sustainable Fuels ($30,000 annual stipend for 3 years, from 2012 to 2015)

2011 Cornell University Research Honors in Neurobiology and Behavior, Distinction in Research (*magna cum laude*)

2011 Supplement to Dr. Seeley's Hatch Grant ($1000)

2010 National Science Foundation Cornell Biological Research Fellowship (2 years, 2010-2011)

2007 Rawlings Cornell Presidential Research Scholars Program (4 years, from 2007-2011)

2007 National Science Foundation Campus to Coast Fellowship

2007 Coleopterists Society Youth Incentive Award ($500)

Relevant research experience

PHD STUDENT | NORTH CAROLINA STATE UNIVERSITY, NC | 2016-PRESENT

Currently studying bee conservation and dispersal in the research lab of Dr. Nick Haddad.

RESEARCH ASSISTANT | NORTH CAROLINA STATE UNIVERSITY, NC | 2015-2016

Oversaw data collection for Dr. Rebecca Irwin's long-term study of bee phenology at the Rocky Mountain Biological Lab in Gothic, CO from April-August 2015 and 2016. From August 2015-April 2016, identified bee specimens and prepared manuscripts using Dr. Irwin's 8 year phenological dataset.

MS STUDENT | RUTGERS UNIVERSITY, NJ | 2012-2015

Studied bee landscape ecology in the research lab of Dr. Rachael Winfree. Conducted research examining pollinator foraging behavior and niche partitioning in mass flowering canola crops in Kansas, North Dakota, and Manitoba, Canada. Also initiated an ongoing long-term study of bee communities of a tallgrass prairie restoration managed by The Nature Conservancy in north-central Illinois.

STUDENT RESEARCHER AND LAB TECH | CORNELL UNIVERSITY, NY| 2007-2011

Worked with Dr. Tom Seeley to complete both independent and collaborative research projects with topics including honey bee health, bee communication, and insect biogeography. In summer and fall 2011, studied honey bee foraging behavior and communication for honors thesis research. Also served as a lab tech at Liddell Field Station with primary duties including general beekeeping and apiary management.

STUDENT INTERN| SMITHSONIAN NATIONAL MUSEUM OF NATURAL HISTORY, WASHINGTON DC| SUMMER 2006

Conducted insect specimen prep and identification under the guidance of the Entomological Collections manager, Dr. David Furth.

Outreach Experience

GUEST EDITOR | CONSERVATIONCORRIDOR.ORG| FALL 2017

Ran and edited the conservation and habitat corridor focused website ConservationCorridor.org. This involved science writing for weekly digests, managing the website itself, and running social media accounts.

GUEST SPEAKER | FRIENDS OF NACHUSA SCIENCE SYMPOSIUM, IL | OCT 2016, 2017

Gave two invited oral presentations about research at the Nachusa Grasslands. The audience of each talk included more than 50 restoration practitioners and members of the public.

SEMINAR COORDINATOR | NORTH CAROLINA STATE UNIVERSITY, NC | FALL 2017

Selected and invited a diverse set of seminar speakers from academic institutions around the country, organized their visits, and advertised their talks to the graduate students and faculty.

COFOUNDER OF BEEKEEPING CLUB | CORNELL UNIVERSITY, NY | FALL 2012

Established an official beekeeping club at undergraduate institution, Cornell University. Raised financial support for the club and advertised to find students to join. The club is still in operation!

Teaching and Mentorship

REU STUDENT MENTOR | SAVANNAH RIVER SITE, SC | SUMMER 2017

Mentored one undergraduate REU student on an independent research project, including project design, fieldwork, and final write up. The REU student continued their involvement in the project throughout the academic year.

STUDENT MENTOR | ROCKY MOUNTAIN BIOLOGICAL LAB, CO | SUMMER 2015, 2016

Mentored two undergraduate students for eight weeks each on independent research projects, including project design, implementation, analysis, write up and oral presentation.

GUEST LECTURER | ROCKY MOUNTAIN BIOLOGICAL LAB, CO | SUMMER 2016

Co-taught a 4-hour class on invasive species to a group of high schoolers. The class consisted of a lecture followed by an experiment to determine whether pollinators preferred to visit invasive plants over native plants.

TA FOR APICULTURE CLASS | RUTGERS UNIVERSITY, NJ | SPRING 2013, 2014

Gave three full lectures per semester and assisted with hands-on beekeeping and field trips.

UNDERGRADUATE TA FOR RESEARCH SKILLS CLASS| CORNELL UNIVERSITY, NY| FALL 2011

Presented on current research and general research methods, and assisted professor in the demonstration of data organization and analysis.

Professional development

PEER REVIEWER | RUTGERS UNIVERSITY, NJ AND NC STATE UNIVERSITY, NC| 2013-2017

Served as a peer reviewer for four scientific manuscripts, in the Journal of Applied Ecology, Ecological Applications, Oecologia, and Restoration Ecology.

STUDENT, MIDWESTERN BEE ID WORKSHOP | TYSON RESEARCH CENTER, MO | APRIL 2014

Attended a week long taxonomic workshop on the identification of bees commonly found in tallgrass prairies, run by Mike Arduser of the Missouri Department of Conservation.