

# Sean R. Griffin

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## EDUCATION

- 2016-2019    **Ph.D. in Integrative Biology at the W.K. Kellogg Biological Station**  
Michigan State University, East Lansing, MI.  
*KBS Science Education and Outreach Fellow (2018-2019)*  
North Carolina State University, Raleigh, NC. (2016-2017)  
*Transferred to MSU with graduate advisor*  
Ph.D. advisor: Dr. Nick Haddad
- 2012-2015    **M.S. in Ecology & Evolution**  
Rutgers University, New Brunswick, NJ.  
*NSF IGERT Fellow (2012-2015)*  
M.S. advisor: Dr. Rachael Winfree
- 2007-2011    **B.S. in Entomology** *Distinction in research - magna cum laude*  
Cornell University, Ithaca, NY.  
*NSF Cornell Biological Research Fellow (2010-2011)*  
*Rawlings Cornell Presidential Research Scholar (2007-2011)*  
Undergraduate research advisor: Dr. Tom Seeley

## PUBLICATIONS

- Griffin, S.R.**, B. Bruninga-Socolar, and J. Gibbs. 2021. Bee communities in restored prairies are structured by landscape and management, not local floral resources. *Basic and Applied Ecology*.
- Griffin, S.R.** and N.M. Haddad. 2021. Connectivity and edge effects increase bee colonization in an experimentally fragmented landscape. *Ecography*.
- Bruninga-Socolar, B., **S.R. Griffin**, J. Gibbs, and R. Winfree. *In review in Restoration Ecology*.  
Bee traits predict species diversity and abundance in restored tallgrass prairie.
- Kemmerling, L., **S.R. Griffin**, N.M. Haddad. 2021. Optimization of pollinator conservation and crop yield among perennial bioenergy crops. *GCB Bioenergy*.

- Jarvis, R.M., S.B. Borrelle, ..., **S.R. Griffin**, ..., and B.K. Prohaska. 2020. Navigating spaces between conservation research and practice: are we making progress? *Ecological Solutions and Evidence*. 1(2): 1-11.
- Stemkovski, M., W.D. Pearse, **S.R. Griffin**, ..., and R.E. Irwin. 2020. Bee phenology is predicted by climatic variation and functional traits. *Ecology Letters*. 23(11):1589-1598.
- Hawn, C.L., N.M. Haddad, **S.R. Griffin**, J. Herrmann. 2018. Connectivity increases food web subsidies in fragmented landscapes. *Ecology Letters*. 21(11): 1620-1628.
- Ogilvie, J.E., **S.R. Griffin**, Z.J. Gezon, D.W. Inouye, and R.E. Irwin. 2017. Interannual bumble bee abundance is driven by indirect climate effects on floral resource phenology. *Ecology Letters*. 20(12): 1507-1515.
- Griffin, S.R.**, B. Bruninga-Socular, 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., I. Bartomeus, ..., **S.R. Griffin**, ..., and M. Woyciechowski. 2015. Wild insects other than bees are important contributors to global crop production. *PNAS*. 113(1): 146-151.
- Hoebcke, 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. Tarpay, **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

**Griffin, S.R.**, M. Bertelsen, H. Landel, D. Davis, M. O’Toole, M. Simmons, and S. Jha. *In prep.* Invasion by C4 grasses promoted by drought conditions, resulting in native biodiversity loss.

**Griffin, S.R.**, M. Bertelsen, H. Landel, D. Davis, M. O’Toole, M. Simmons, and S. Jha. *In prep.* The effects of prescribed burning and mowing differ by season across an experimental prairie landscape.

**Griffin, S.R.**, E.A. Lopez, E.M. Lichtenberg, K. Baum, and S. Jha. *In prep.* Prescribed burning and seeding structure pollinator communities of restored prairies in real-world landscapes.

**Griffin, S.R.** and N.M. Haddad. *In revision.* Bee colonization across agricultural landscapes is determined by patch size and floral resource availability.

Wilhelm, S.R., **S.R. Griffin**, E.M. Lichtenberg, K. Baum, and S. Jha. *In prep.* Pollinator-centered burn and seed restorations are beneficial to floral resources within two years of treatment.

Amaral, V.E., **S.R. Griffin**, J. Herrmann, C.L. Hawn and N.M. Haddad. *In prep.* Solitary wasps show species-specific responses to habitat shape and connectivity in fragmented landscapes.

Pardee, G.L., **S.R. Griffin**, M. Stenkovski, T. Harrison, D. Inouye, M.R. Kazenel, J.S. Lynn, and R.E. Irwin. *In revision.* Life history traits predict responses of wild bees to climate change.

## ACADEMIC PRESENTATIONS

**Griffin, S.R.**, E.M. Lichtenberg, K. Baum, and S. Jha. “How does prescribed burning and seeding structure the pollinator communities of restored prairies?”

- Oral presentation, *Entomological Society of America Annual Meeting* (2020)

Klotz, M. and **S.R. Griffin**. “Deliberating Climate Choices.”

- Co-led oral presentation, *Michigan Science Teachers Association Annual Conference* (Grand Rapids, MI) March 2019

Klotz, M. and **S. R. Griffin**. “An Introduction to Community Engagement: Guidelines for Excellence.”

- Co-led oral presentation, *Michigan Science Teachers Association Annual Conference* (Grand Rapids, MI) March 2019

**Griffin, S. R.** and N. M. Haddad. “Colonization by solitary bees is driven by connectivity and habitat configuration in a fragmented landscape.”

- Poster presentation, *Ecological Society of America Annual Meeting* (New Orleans, LA) August 2018
- Invited Oral Presentation, *Entomological Society of America Joint Annual Meeting* (Vancouver, BC, Canada) November 2018

**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

**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

## **RESEARCH EXPERIENCE**

### **Postdoctoral Researcher | University of Texas at Austin, TX | 2020-current**

As a postdoc in the lab of Dr. Shalene Jha, leading a study of the long-term effects of prescribed burning and supplemental seeding on pollinator communities of grassland restorations across the Cross Timbers ecoregion of northern Texas and Oklahoma. Also collaborating with the Lady Bird Johnson Wildflower Center, a native garden owned by the University of Texas, to examine plant community shifts over 20 years of prescribed burning within a landscape-scale restoration experiment.

### **Ph.D. Student | Michigan State University, MI | 2016-2019**

Studied prairie and bee restoration in the research lab of Dr. Nick Haddad. Examined wild bee response to restoration management in a prairie restoration in north-central Illinois, using both community-level analyses and genomic techniques. Also ran two landscape-scale bee release experiments with wood-nesting bees (*Megachile rotundata*) to examine the effects of habitat configuration and resource availability on bee colonization in experimental landscapes in South Carolina and Michigan.

### **Project Supervisor | North Carolina State University, NC | 2015-2016**

Worked as project supervisor for Dr. Rebecca Irwin’s long-term study of montane bee communities. Oversaw specimen collection for two summers, identified bees, managed the ~40,000 specimen collection, and analyzed the 8-year datasets for publication as part of an ongoing effort to understand how climate change affects montane bees.

**MS Student | Rutgers University, NJ | 2012-2015**

Studied bee landscape ecology in the research lab of Dr. Rachael Winfree. Researched pollinator foraging behavior in canola crops in Kansas, North Dakota, and Manitoba, CA. Also initiated an ongoing, long-term study of bee communities of a tallgrass prairie restoration in Illinois.

**Student researcher and lab tech | Cornell University, NY | 2007-2011**

Worked with Dr. Tom Seeley, one of the world's leading honey bee experts, to complete both independent and collaborative research projects with topics including honey bee health, bee foraging, and bee communication. Also served as a lab tech at Liddell Field Station with primary duties including general beekeeping and apiary management.

**Research Assistant | Smithsonian Tropical Research Institute, Panama | 2010**

Assisted Dr. Rachel Page with a study of the cognitive ecology of the frog eating bat *Trachops cirrhosis* by capturing wild bats, training them, and collecting data in controlled cage experiments.

**Intern and USDA employee | Smithsonian National Museum of Natural History, Washington DC | 2006-2007**

As an intern, conducted insect specimen prep and identification under the guidance of Dr. David Furth, Entomological Collections manager. In summer 2007, pinned tropical insect specimens for USDA Researcher Dr. Tom Henry.

**COMMUNITY ENGAGEMENT & OUTREACH**

**Guest Speaker at the Nachusa Grasslands Science Symposium | The Nachusa Grasslands, IL | 2016, 2017, 2021**

Gave three invited presentations about research at the Nachusa Grasslands. The audience of each talk included >50 restoration practitioners and members of the public.

**MSU Graduate Certification in Community Engagement | Michigan State University, MI | 2018-2019**

Attended classes and workshops on community engagement and prepared a final portfolio of outreach activities.

**W.K. Kellogg Biological Station K-12 Science and Outreach Fellow | Kellogg Biological Station, MI | 2018-2019**

Led ecology-focused outreach events including fieldtrips, classroom visits, citizen science events, tours, career fairs, invited talks, and a variety of other outreach activities. Many of these events focused on pollinators. Also organized two professional

development workshops for K-12 teachers. This Fellowship appointment was equivalent to a Teaching Assistantship and required at least 20 hours of outreach work per week.

**Kellogg Bird Sanctuary Native Gardens Outreach Fellow | Kellogg Biological Station, MI | Summer 2018 and 2019**

Developed garden tours and workshops about pollinators at the Native Gardens. Also created content for the Kellogg Bird Sanctuary website and coordinated garden volunteers.

**Guest Editor for ConservationCorridor.org | North Carolina State University, NC | 2017**

Ran the conservation-focused website ConservationCorridor.org for 5 months while the Editor was on leave. Duties included science writing, website management, and engaging social media.

**Seminar Coordinator | North Carolina State University, NC | 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.

**Guest lecturer | Rocky Mountain Biological Lab, CO | 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.

**Beekeeping Club Cofounder | Cornell University, NY | 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 & MENTORSHIP**

**Research Mentor to Undergraduate Students and Early Career Scientists | Rocky Mountain Biological Laboratory, CO; Savannah River Site Corridor Project, SC; Kellogg Biological Station, MI; University of Texas at Austin, TX | 2015-2020**

Mentored and trained ~20 undergraduate students and early career scientists with research projects, including two funded through the NSF REU program and two funded by the Rocky Mountain Biological Lab. Mentoring typically involved helping students design and implement research projects, conduct and interpret analyses, and write up their results.

**TA for Apiculture class | Rutgers University, NJ | 2013, 2014**

Gave lectures and assisted with hands-on beekeeping.

### **Undergraduate TA for Research skills class | Cornell University, NY | 2011**

Presented general research methods and assisted with demonstration of data organization and analysis.

## **PROFESSIONAL DEVELOPMENT**

### **Student at the Midwestern Bee ID Workshop | Tyson Research Center, MO | 2014**

Took a week-long taxonomic workshop on midwestern bee identification run by Mike Arduser of the Missouri Department of Conservation.

### **Peer Review | 2013- current**

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

## **SELECTED AWARDS & HONORS**

2021	Friends of Nachusa Grasslands Research Science Grant (\$13,800)
2019	Kellogg Bird Sanctuary Outreach Fellowship (\$2,000)
2018	W.K. Kellogg Biological Station Science Education and Outreach Fellowship (\$20,000 stipend)
2018	Kellogg Bird Sanctuary Native Gardens Outreach Fellowship (\$2,500)
2018	Michigan State University research award (\$4,000)
2017, 2018	Friends of Nachusa Grasslands Research Science Grants (2 grants, \$8,185 total)
2014, 2017	Research Grant from Prairie Biotic Research, Inc (2 grants, \$2,000 total)
2016	North Carolina State University Provost Fellowship (\$32,000 stipend)
2013, 2014	Rutgers University Small Grants (\$3,700 total)
2014	North Central Region Sustainable Agriculture Research & Education Grad Student Grant (\$9,869, declined)
2014	Attachment to NIFA grant from the North Central Canola Research Program (\$5,998)
2014	Theodore Roosevelt Memorial Fund from American Museum of Natural History (\$2,500)
2012	Rutgers University IGERT for Renewable and Sustainable Fuels (\$30,000 annual stipend for 3 years, 2012-2015)

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

2011 Supplement to Dr. Seeley's Hatch Grant (\$1,000)

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)

## REFERENCES

### **Dr. Shalene Jha**

*Postdoctoral Advisor (2020-current)*

Associate Professor of Integrative Biology

University of Texas at Austin

(512)-232-3521      [sjha@austin.utexas.edu](mailto:sjha@austin.utexas.edu)

### **Dr. Nick Haddad**

*Ph.D. Advisor (2016-2019)*

Professor of Integrative Biology

W.K. Kellogg Biological Station - Michigan State University

(919)-622-3293      [haddad@kbs.msu.edu](mailto:haddad@kbs.msu.edu)

### **Dr. Rebecca Irwin**

*Academic employer (2015-2016)*

Associate Professor of Applied Ecology

North Carolina State University

(919)-513-7553      [reirwin@ncsu.edu](mailto:reirwin@ncsu.edu)

### **Kara Haas**

*Supervisor for KBS Science Education and Outreach Fellowship (2018-2019)*

Kellogg Biological Station Science Education and Outreach Coordinator

W.K. Kellogg Biological Station - Michigan State University

(269)-671-2360      [karahaas@msu.edu](mailto:karahaas@msu.edu)