

Hannah K. Levenson, PhD

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EDUCATION

North Carolina State University Grad.: Summer 2021
Ph.D. in Entomology: Behavior Ecology Evol. & Systematics GPA: 3.92
Co-Major in Biology: Ecology & Evolution
North Carolina State University Grad.: December 2015
B.S. in Environmental Technology & Management GPA: 3.82
B.A. in Design Studies Magna Cum Laude
Minor in Environmental Science
Study Abroad in Prague, Czech Republic

EXPERIENCE

Postdoctoral Research Scholar: Burrack Lab (Raleigh, NC)
June 2021 – Present

- Evaluating learning and information dissemination through grower communities centered around Spotted Wing Drosophila control

Graduate Research Associate: Tarpy Lab (Raleigh, NC)
July 2017 – May 2021

- Thesis – Native bee communities across North Carolina agroecosystems

Field Research Technician: Tarpy Lab (Raleigh, NC)
Feb 2016 – July 2017

- Coordinated sampling with 3 undergraduates and 18 NCDA employees
- Responsible for collecting samples, identifying bees, and lab analyses
- Designed and implemented an independent project - "Disease interactions between native, wild, and honey bees in northern Perú" - with Peace Corps Volunteers and La Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas in Chachapoyas, Perú.

Biology Tech. – Wildlife Toxicology: Smithers Viscient (NC, CA, SD)
Feb 2015 – Aug 2015

- Sampled crops, bee hives, and conducted Digital Colony Condition Assessments
- Ability to handle stressful schedules, multi-task in a fast-paced environment, and work efficiently in a hot environment

Field Assistant: Layman Lab (The Abacos, The Bahamas)
May 2014 – Aug 2014

- Constructed 16 artificial patch reefs in The Abacos, The Bahamas
- Performed fish surveys and seagrass surveys, collected samples of seagrass, ocean water, mangrove leaves, and sediment
- Teaching assistant for week-long sea creature identification course

LEADERSHIP ROLES

USDA SCRI CAP: Sustainable SWD Management (\$5.4 million)
Co-PI: Objective 1 Jan 2022 - Present

NatureServe EBAR SAR Status Assessment Review
Bombus terricola range in NC Dec 2021 – Feb 2022

NCSU Horticulture – Consumer Youth Working Group
Overwintering Habitat Research co-coordinator Oct 2021 - Present

NCSU STEM Externship with 4-H
Research co-coordinator May 2021 - Present

U.S. National Native Bee Monitoring Research Coordination Network

Research Member	Oct 2020 – Present
Breakout Group Leader	December 2021
North Carolina Pollinator Conservation Alliance (NCPCA)	
Outreach Subcommittee	Jan 2018 – Present
Research Subcommittee	Jan 2018 – Present
BEEMore Mentor	Summer 2018, 2019, 2021
NCSU Entomology Graduate Student Association	
Co-Seminar Chair	April 2019 – May 2020
Co-Social Chair	March 2018 – April 2019
NCSU Department of Entomology and Plant Pathology	
Social Committee	Aug 2018 – April 2019

AWARDS

NSCU DEPP Excellence in Entomology Award	June 2021
NCES 3 Minute Thesis Competition – 1st place	Oct 2020
North Carolina State Beekeeper Association's 2020 J.T. Ambrose Student Award	July 2020
NCALS Research Foundation Comp. – 2nd Place	March 2020
NC Ent. Society's 2019 Outstanding PhD Student	Oct 2019
NSF GRFP Honorable Mention	Oct 2019
NCSU Ent. Student Symposium – 1st place 10 min	March 2019
NC Ent. Society's 2018 Outstanding Masters Student	Oct 2018

RESEARCH AND TRAVEL GRANTS

GSA Travel Award (\$1,500)	Awarded April 2020
Southern SARE GS Grant (\$16,500)	Awarded Aug 2019
IPC Travel Award (\$500)	Awarded March 2019
Garden Club of America Cent. Poll. Fellow (\$4,000)	Awd. March 2019
Syngenta Bee Research Grant: Co-PI (\$25,000)	Awarded Dec 2018
NCES Travel Award (\$250)	Awarded Oct 2018
NCSU GSA Travel Award (\$500)	Awarded April 2018
NCSU Biology Research Award (\$1,500)	Awarded March 2018

FELLOWSHIPS

NC State Impact Scholar (\$1,000)	Jan 2022
NCSU STEM Externship with 4-H (\$1,500)	May 2021
CEFS Graduate Fellow (\$10,000)	July 2019

SCIENTIFIC PUBLICATIONS

Levenson, H.K., Sharp, A.E., Tarpy, D.R. 2022. <i>Evaluating the impact of increased pollinator habitat on bee visitation and yield metrics in soybean crops.</i> Agriculture, Ecosystem & Environment: 33 (107901). doi: 10.1016/j.agee.2022.107901.	
Levenson, H.K. and Tarpy, D.R. <u>IN REVISION</u>. <i>The impact of planted pollinator habitat on bee health and the interspecific spread of pathogens.</i>	
Levenson, H.K. and Tarpy, D.R. <u>IN REVEIW</u>. <i>Temporal and spatial dynamics of pollinator communities in response to planted habitat across the agroecosystem.</i>	

	Levenson, H.K. and Tarpy, D.R. <u>IN PREP.</u> <i>Impacts of an extreme weather event on pollinator community composition.</i>																		
PEER-REVIEWED PUBLICATIONS	<p>Levenson, H.K. (2021) <i>Temporal and spatial dynamics of pollinator communities across North Carolina in response to conservation efforts in the agroecosystem.</i> [Dissertation] North Carolina State University</p> <p>Levenson, H. and Youngsteadt, E. (2019) <i>The Bees of North Carolina: An Identification Guide.</i> NCSU Extension. Page hits to date: 25,281 Book Purchases to date: 396</p>																		
NON-PEER REVIEWED PUBLICATIONS	<p>Author for the Hymenoptera Page for the NC Biodiversity Project Website: https://nc-biodiversity.com/ April 2020 - Present</p>																		
DATASETS	<p>Levenson, H.K., Sharp, A.E., Tarpy, D.R. 2022. <i>Bee community metrics in different field types.</i> Mendeley Data, V1. doi: 10.17632/tfdcmfpwz9.1</p> <p>Levenson, H.K., Sharp, A.E., Tarpy, D.R. 2022. <i>Interaction between soybean growth stage and pollinator abundance.</i> Mendeley Data, V1. doi: 10.17632/ybrhkb4kvd.1</p> <p>Levenson, H.K., Sharp, A.E., Tarpy, D.R. 2022. <i>Pollen types collected by bees in different field types.</i> Mendeley Data, V1. doi: 10.17632/vyszbjfvzg.1</p> <p>Levenson, H.K., Sharp, A.E., Tarpy, D.R. 2022. <i>Soybean harvest after adding pollinator habitat.</i> Mendeley Data, V1. doi: 10.17632/jmyy9h8x6.1</p>																		
PEER REVIEWS	<p>Peer Reviews</p> <table> <tr> <td>Economic Entomology</td> <td>Jan 2022</td> </tr> <tr> <td>Economic Entomology</td> <td>Oct 2021</td> </tr> <tr> <td>Frontiers</td> <td>Sep 2021</td> </tr> <tr> <td>Scientific Reports</td> <td>July 2021</td> </tr> <tr> <td>Ecology Letters</td> <td>April 2020</td> </tr> <tr> <td>Apidologie</td> <td>March 2019</td> </tr> </table> <p>Co-Peer Reviews</p> <table> <tr> <td>Insects</td> <td>Dec 2020</td> </tr> <tr> <td>Sustainability</td> <td>July 2019</td> </tr> <tr> <td>Insects</td> <td>June 2020</td> </tr> </table>	Economic Entomology	Jan 2022	Economic Entomology	Oct 2021	Frontiers	Sep 2021	Scientific Reports	July 2021	Ecology Letters	April 2020	Apidologie	March 2019	Insects	Dec 2020	Sustainability	July 2019	Insects	June 2020
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ACKNOWLEDGEMENTS	Hensel et al. (2019) <i>Effects of predator presence and habitat complexity on reef fish communities in The Bahamas.</i> Marine Biology 166:136																		
SCIENTIFIC PRESENTATION AND CONFERENCES	<p>SE Fruit & Vegetable Conference: NARBA Session Invited Presenter – Savannah, GA Jan 2022</p> <p>WERA 1021: SWD Biology, Ecology, Management NC Research Updates – Virtual Dec 2021</p> <p>Nat. Conference for College Women Student Leaders Selected Attendee – Virtual May 2021</p> <p>Entomological Society of America: National Meeting</p>																		

Symposium Co-Organizer – Virtual	Nov 2020
Invited Presenter – Virtual	Nov 2020
Presenter – St. Louis, MO	Nov 2019
Presenter – Vancouver, CA	Nov 2018
Montgomery Community College Pollinator Conference	
Keynote Speaker	February 2020
Southern Appalachian Honey Bee Research Consortium	
Presenter – Boone, NC	February 2020
Presenter – Charlotte, NC	February 2019
Presenter – Wake Forest, NC	February 2018
Presenter – Greensboro, NC	February 2017
Attendee – Clemson, NC	April 2016
International Pollinator Conference	
Selected Presenter – Davis, CA	July 2019
NCSU Graduate Research Symposium	
Nominated Presenter – Raleigh, NC	March 2019
NCSU ENT. Student Research Symposium	Feb 2018, March 2019
Entomological Society of America: Branch Meetings	
Invited Presenter (Eastern Branch) – Blacksburg, VA	March 2019
Invited Presenter (Southeastern Branch) – Orlando, FL	March 2018
Ecological Society of America National Annual Meeting	
Presenter – New Orleans, LA	August 2018
NCSU Entomology Club	October
2016	

PROFESSIONAL PRES. AND MEETINGS

NC Vegetation Management Association's Annual Meeting	
Invited Presenter – Virtual	Dec 2020
NC Pollinator Conservation Alliance's Annual Meeting	
Invited Presenter – Virtual	Dec 2020
NCDA Superintendent's Annual Meeting	
Presenter – Raleigh NC	Dec 2016, Nov 2017, Dec 2019
Center for Environmental Farming Systems' Board Meeting	
Presenter – Raleigh NC	Sept 2019
National Honey Bee Veterinary Consortium Conference	
Invited Featured Speaker – Raleigh, NC	Sep 2018

TEACHING, EXTENSION, AND SERVICE

Species Review for NatureServe Canada	
	Jan 2022
NCSU's BEES Academy	
Presenter – Identification of Native Bees	Sep '19, Oct '19, March '20, Oct '21
NCPCA Pollinator Field Day	
Virtual - Presenter: Native Bee Diversity and Identification	June 2021
Virtual - Presenter: Bee field collection and identification	June 2020
Raleigh, NC - Presenter: Native Pollinators; Bee ID Mini Workshop	Aug 2019
Salisbury, NC - Presenter: Native Pollinators	Sep 2018
BEEMore Mentoring Introductory Meeting	'17, '18, '19, '21
North Raleigh Rotary Club	May 2021
NCSU Extension: Agent Training Video	
Native bees: diversity, biology, and identification tricks	July 2020

NCSU Apiculture Program: Hive Chat[The non-honey bees: native bees active this time of year](#)

June 2020

Beekeepers' Club Presentations:

Haywood County Beekeepers

June 2020

Wake County Beekeepers

January 2018

Orange County Beekeepers

January 2017

Person County Beekeepers

October 2016

Springdale Garden Club

"The bees in your backyard"

Feb 2020

Master Gardner College – Native bee ID

June 2019

Native Bee ID Workshop Co-Creator with Elsa Youngsteadt

Offered 2 times reaching 36 people to date

Midnight Bee Supply's Bee School

Bees as Social Insects

March 2019

Teaching Assistant under Clyde Sorenson

ENT 201: Insects and People

Spring 2019

Guest Lecturer for ENT 203 Field Section

Native bees and pollinator interactions

Oct 2018

Teaching Assistant under David Tarpy

ENT 203: An Introduction to the Honey bee and Beekeeping

Fall 2017

**INTERVIEWS
AND ARTICLES****The Daily Tar Heel**

Sep 2020

[Here's the buzz: Conservation efforts are in full sting despite COVID-19 setback](#)**NCSU Extension: Homegrown Video**[Bee, Wasp or Fly ? Identifying N.C. Bees](#)

Aug 2020

NC State University: News[The Buzz About Native Bees](#)

Feb 2020

NCSU Extension: Homegrown Video[Growing a Pollinator Garden](#)

Aug 2019

Oregon State University: PolliNation Podcast[Regional bee communities \(and the plants they like\)](#)

May 2019

**UNDERGRAD
ASSISTANTS****Isiah Castro** (Uni. of Colorado Boulder, CO) May 2021 – Aug 2021**April Sharp** (NC State University, NC) May 2019 – March 2021**Rachel Laminack** (NC State University, NC) Sep 2019 – Dec 2020**Kaya Hamilton** (Xavier University, LA) May 2019 – Aug 2019**Chesney Banasik** (NC State University, NC) Oct 2018 – May 2019**Zachary Everson** (NC State University, NC) May 2018 – May 2019**Olivia Loyack** (NC State University, NC) Oct 2017 – May 2019**Nicole Hanselman** (Elmira College, NY) June 2018 – Aug 2018**Claire Collins** (NC State University, NC) May 2017 – Aug 2018**Nathan Lasala** (UNC Asheville, NC) June 2017 – July 2017**Victoria Blanchard** (Uni. of Exeter, UK) July 2016 – Dec 2016

WORKSHOPS**ComSciCon – Triangle 2018**

Selected Attendee

Inclusive STEM Teaching Project - 2021

**COMMUNITY
OUTREACH
AND
VOLUNTEERING**

Marion Elementary School – Native Bees	<i>Oct 2021</i>
NCSU Staff Senate Pollinator Week	
Invited Presenter: Native Bee Diversity – The who, what, and how	<i>June 2021</i>
Buckhorn Creek Elem. Sch. – Native Bees	<i>June 2021</i>
North Carolina Museum of Natural Sciences	
Bugfest	<i>Sep '15, '16, '17, '18, '19</i>
Brain Awareness Night	<i>March '16, '17</i>
JCRA Summer Camp – Pollinator Workshop	<i>June 2019</i>
Pollinator Festival	
Native Bees	<i>June 2019</i>
Triangle Rock Club Wildlife Adventure Kids Camp	
Presenter: Honey Bee Basics	<i>June, July (x3), August 2017</i>
Gregg Museum Grand Opening	<i>Aug 2017</i>
Pollinator Garden Educator	
Festival for the Eno River: Native Bee Table	<i>July 2017</i>
Service Raleigh: Invasive Species Removal	<i>April 2016</i>
North Carolina State Fair	
Judging of Honey Bee Booths and Products	<i>October '15, '16</i>
Miscellaneous	
Bioblitz: Carolina Beach State Park	<i>September 2017</i>
Canción de los Niños (Pedro Ruíz Gallo, Perú)	<i>December 2016</i>
Pollinator Garden Installment (Centennial Campus NCSU)	<i>October 2016</i>
Lionfish Derby (The Abacos, The Bahamas)	<i>July 2014</i>

MEMBERSHIPS

NC Pollinator Conservation Alliance (NCPCA)	[Founding Member]
Being an Ally in Academia	[Founding Member]
North Carolina Entomological Society	
Entomological Society of America	
American Association for the Advancement of Science	