

# Hannah K. Levenson, PhD

hklevens@ncsu.edu | 919.434.7882 | <https://hklevens.wixsite.com/hannahklevensonbees>

## 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 Nov 2021 - Present

**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
	<b>North Carolina Pollinator Conservation Alliance</b> (NCPCA)	
	Outreach Subcommittee	Jan 2018 – Present
	Research Subcommittee	Jan 2018 – Present
	<b>BEEMore Mentor</b>	Summer 2018, 2019, 2021
	<b>NCSU Entomology Graduate Student Association</b>	
	Co-Seminar Chair	April 2019 – May 2020
	Co-Social Chair	March 2018 – April 2019
	<b>NCSU Department of Entomology and Plant Pathology</b>	
	Social Committee	Aug 2018 – April 2019
<b>AWARDS</b>	<b>NSCU DEPP Excellence in Entomology Award</b>	June 2021
	<b>NCES 3 Minute Thesis Competition – 1<sup>st</sup> place</b>	Oct 2020
	<b>North Carolina State Beekeeper Association's 2020 J.T. Ambrose Student Award</b>	July 2020
	<b>NCALS Research Foundation Comp. – 2<sup>nd</sup> Place</b>	March 2020
	<b>NC Ent. Society's 2019 Outstanding PhD Student</b>	Oct 2019
	<b>NSF GRFP Honorable Mention</b>	Oct 2019
	<b>NCSU Ent. Student Symposium – 1<sup>st</sup> place 10 min</b>	March 2019
	<b>NC Ent. Society's 2018 Outstanding Masters Student</b>	Oct 2018
<b>RESEARCH AND TRAVEL GRANTS</b>	<b>GSA Travel Award</b> (\$1,500)	Awarded April 2020
	<b>Southern SARE GS Grant</b> (\$16,500)	Awarded Aug 2019
	<b>IPC Travel Award</b> (\$500)	Awarded March 2019
	<b>Garden Club of America Cent. Poll. Fellow</b> (\$4,000)	Awd. March 2019
	<b>Syngenta Bee Research Grant: Co-PI</b> (\$25,000)	Awarded Dec 2018
	<b>NCES Travel Award</b> (\$250)	Awarded Oct 2018
	<b>NCSU GSA Travel Award</b> (\$500)	Awarded April 2018
	<b>NCSU Biology Research Award</b> (\$1,500)	Awarded March 2018
<b>FELLOWSHIPS</b>	<b>NC State Impact Scholar</b> (\$1,000)	Jan 2022
	<b>NCSU STEM Externship with 4-H</b> (\$1,500)	May 2021
	<b>CEFS Graduate Fellow</b> (\$10,000)	July 2019
<b>SCIENTIFIC PUBLICATIONS</b>	<b>Levenson, H.K., Sharp, A.E., Tarpy, D.R. <u>IN REVIEW</u>.</b> <i>Evaluating the impact of augmented pollinator habitat on surrounding cropping systems.</i>	
	<b>Levenson, H.K. and Tarpy, D.R. <u>IN REVEIW</u>.</b> <i>The impact of planted pollinator habitat on bee health and the interspecific spread of pathogens.</i>	
	<b>Levenson, H.K. and Tarpy, D.R. <u>IN REVEIW</u>.</b> <i>Temporal and spatial dynamics of pollinator communities in response to planted habitat across the agroecosystem.</i>	
	<b>Levenson, H.K. and Tarpy, D.R. <u>IN PREP</u>.</b> <i>Impacts of an extreme weather event on pollinator community composition.</i>	
<b>PEER-REVIEWED PUBLICATIONS</b>	<b>Levenson, H.K. (2021)</b> <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	

	<b>Levenson, H. and Youngsteadt, E. (2019) <i>The Bees of North Carolina: An Identification Guide</i>. NCSU Extension.</b> Page hits to date: 25,281      Book Purchases to date: 396	
<b>NON-PEER REVIEWED PUBLICATIONS</b>	<b>Author for the Hymenoptera Page for the NC Biodiversity Project</b> Website: <a href="https://nc-biodiversity.com/">https://nc-biodiversity.com/</a>	April 2020 - Present
<b>PEER REVIEWS</b>	<b>Peer Reviews</b> Scientific Reports      July 2021 Ecology Letters      April 2020 Apidologie      March 2019 <b>Co-Peer Reviews</b> Insects      Dec 2020 Sustainability      July 2019 Insects      June 2020	
<b>ACKNOWLEDGEMENTS</b>	<b>Hensel et al. (2019) <i>Effects of predator presence and habitat complexity on reef fish communities in The Bahamas</i>. Marine Biology 166:136</b>	
<b>SCIENTIFIC PRESENTATION AND CONFERENCES</b>	<b>SE Fruit &amp; Vegetable Conference: NARBA Session</b> Invited Presenter – Savannah, GA      Jan 2022 <b>WERA 1021: SWD Biology, Ecology, Management</b> NC Research Updates – Virtual      Dec 2021 <b>Nat. Conference for College Women Student Leaders</b> Selected Attendee – Virtual      May 2021 <b>Entomological Society of America: National Meeting</b> Symposium Co-Organizer – Virtual      Nov 2020 Invited Presenter – Virtual      Nov 2020 Presenter – St. Louis, MO      Nov 2019 Presenter – Vancouver, CA      Nov 2018 <b>Montgomery Community College Pollinator Conference</b> Keynote Speaker      February 2020 <b>Southern Appalachian Honey Bee Research Consortium</b> 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 <b>International Pollinator Conference</b> Selected Presenter – Davis, CA      July 2019 <b>NCSU Graduate Research Symposium</b> Nominated Presenter – Raleigh, NC      March 2019 <b>NCSU ENT. Student Research Symposium</b> Feb 2018, March 2019 <b>Entomological Society of America: Branch Meetings</b> Invited Presenter (Eastern Branch) – Blacksburg, VA      March 2019 Invited Presenter (Southeastern Branch) – Orlando, FL      March 2018 <b>Ecological Society of America National Annual Meeting</b> Presenter – New Orleans, LA      August 2018	

**PROFESSIONAL  
PRES. AND  
MEETINGS**

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

**TEACHING,  
EXTENSION,  
AND SERVICE**

<b>NCSU's BEES Academy</b>	Sep '19, Oct '19, March '20, Oct '21
Presenter – Identification of Native Bees	
<b>NCPCA Pollinator Field Day</b>	June 2021
Virtual - Presenter: Native Bee Diversity and Identification	
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
<b>BEEMore Mentoring Introductory Meeting</b>	'17, '18, '19, '21
<b>North Raleigh Rotary Club</b>	May 2021
<b>NCSU Extension: Agent Training Video</b>	July 2020
Native bees: diversity, biology, and identification tricks	
<b>NCSU Apiculture Program: Hive Chat</b>	June 2020
<a href="#">The non-honey bees: native bees active this time of year</a>	
<b>Beekeepers' Club Presentations:</b>	June 2020
Haywood County Beekeepers	
Wake County Beekeepers	January 2018
Orange County Beekeepers	January 2017
Person County Beekeepers	October 2016
<b>Springdale Garden Club</b>	Feb 2020
"The bees in your backyard"	
<b>Master Gardner College – Native bee ID</b>	June 2019
<b>Native Bee ID Workshop</b> Co-Creator with Elsa Youngsteadt	
Offered 2 times reaching 36 people to date	
<b>Midnight Bee Supply's Bee School</b>	March 2019
Bees as Social Insects	
<b>Teaching Assistant under Clyde Sorenson</b>	Spring 2019
ENT 201: Insects and People	
<b>Guest Lecturer for ENT 203 Field Section</b>	Oct 2018
Native bees and pollinator interactions	
<b>Teaching Assistant under David Tarpy</b>	Fall 2017
ENT 203: An Introduction to the Honey bee and Beekeeping	

**INTERVIEWS  
AND ARTICLES**

<b>The Daily Tar Heel</b>	Sep 2020
<a href="#">Here's the buzz: Conservation efforts are in full sting despite COVID-19 setback</a>	

	<b>NCSU Extension: Homegrown Video</b> <a href="#">Bee, Wasp or Fly ? Identifying N.C. Bees</a>	Aug 2020
	<b>NC State University: News</b> <a href="#">The Buzz About Native Bees</a>	Feb 2020
	<b>NCSU Extension: Homegrown Video</b> <a href="#">Growing a Pollinator Garden</a>	Aug 2019
	<b>Oregon State University: PolliNation Podcast</b> <a href="#">Regional bee communities (and the plants they like)</a>	May 2019
<b>UNDERGRAD ASSISTANTS</b>	<b>Isiah Castro</b> (Uni. of Colorado Boulder, CO)	May 2021 – Aug 2021
	<b>April Sharp</b> (NC State University, NC)	May 2019 – March 2021
	<b>Rachel Laminack</b> (NC State University, NC)	Sep 2019 – Dec 2020
	<b>Kaya Hamilton</b> (Xavier University, LA)	May 2019 – Aug 2019
	<b>Chesney Banasik</b> (NC State University, NC)	Oct 2018 – May 2019
	<b>Zachary Everson</b> (NC State University, NC)	May 2018 – May 2019
	<b>Olivia Loyack</b> (NC State University, NC)	Oct 2017 – May 2019
	<b>Nicole Hanselman</b> (Elmira College, NY)	June 2018 – Aug 2018
	<b>Claire Collins</b> (NC State University, NC)	May 2017 – Aug 2018
	<b>Nathan Lasala</b> (UNC Asheville, NC)	June 2017 – July 2017
	<b>Victoria Blanchard</b> (Uni. of Exeter, UK)	July 2016 – Dec 2016
<b>WORKSHOPS</b>	<b>ComSciCon – Triangle 2018</b> Selected Attendee	
	<b>Inclusive STEM Teaching Project - 2021</b>	
<b>COMMUNITY OUTREACH AND VOLUNTEERING</b>	<b>Marion Elementary School – Native Bees</b>	Oct 2021
	<b>NCSU Staff Senate Pollinator Week</b>	
	Invited Presenter: Native Bee Diversity – The who, what, and how	June 2021
	<b>Buckhorn Creek Elem. Sch. – Native Bees</b>	June 2021
	<b>North Carolina Museum of Natural Sciences</b>	
	Bugfest	Sep '15, '16, '17, '18, '19
	Brain Awareness Night	March '16, '17
	<b>JCRA Summer Camp – Pollinator Workshop</b>	June 2019
	<b>Pollinator Festival</b>	
	Native Bees	June 2019
	<b>Triangle Rock Club Wildlife Adventure Kids Camp</b>	
	Presenter: Honey Bee Basics	June, July (x3), August 2017
	<b>Gregg Museum Grand Opening</b>	Aug 2017
	Pollinator Garden Educator	
	<b>Festival for the Eno River: Native Bee Table</b>	July 2017
	<b>Service Raleigh: Invasive Species Removal</b>	April 2016
	<b>North Carolina State Fair</b>	
	Judging of Honey Bee Booths and Products	October '15, '16
	<b>Miscellaneous</b>	
	Bioblitz: Carolina Beach State Park	September 2017
	Canción de los Niños (Pedro Ruíz Gallo, Perú)	December 2016
	Pollinator Garden Installment (Centennial Campus NCSU)	October 2016
	Lionfish Derby (The Abacos, The Bahamas)	July 2014

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**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**