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Education: 2015-2019 University of Texas at Austin B.S. Biology (Ecology Evolution, and Behavior) with Honors (thesis)

Research/ Work Experience:

- **University of California, Irvine, Tobin Hammer lab**, Sept 2022- present. PhD student and NSF graduate research fellow
- **University of Oregon, Lauren Ponisio pollinator lab**, Feb 2022-Jun 2022: Crew Lead, Moldenke re-survey of bee communities across habitats in Southern California
- **Osa Conservation**, Mar 2021-Sept 2021: Research Fellow, studied the arboreal ant community of the lowland tropical rainforest of Osa Peninsula, Costa Rica, also produced sci-comm material.
- **Smithsonian Environmental Research Center**, Aug 2020- Mar 2021: Outreach Intern for "Orchids in the Classroom" project, creating tutorial videos and educational materials to allow middle and high school students to aid in orchid conservation via community science, also assisting in the #WomenInScienceWednesday initiative.
- **University of California, Riverside, Lauren Ponisio pollinator lab**, Mar 2020-Jun 2020: Junior Specialist, assisted Moldenke survey of bee communities across habitats in Southern California
- **University of California, Riverside, Jeff Diez ecology lab**, Jan 2020-Jun 2020: Junior Specialist, studied plant community and phenology changes in harsh environments, field and lab work
- **The Ant Network** October 2019-present: Graphic Illustrator, produces illustrations and technical drawings for the Ant Network, a company that aims to provide learning tools and activities for scientific education
- **AMNH Southwest Research Station**, Aug 2019-Oct 2019: Volunteer Intern, worked in collections (herpetology), painted 9x21 ft mural. (studied ants with Dr. Michele Lanan, Ray Mendez)
- **University of Texas Austin Biology of Birds Field Course**, Spring 2018, Spring 2019: Undergraduate Teaching Assistant for Dr. Timothy Keitt, aided in lab and field lessons
- **University of Texas Austin Thesis**, Sept 2017-Jun 2019: "Characterization of habitat preference and parasitoid interactions of *Pheidole dentata* at Brackenridge Field Laboratory and discovery of a new *Solenopsis* inquiline species (Hymenoptera: Formicidae)" (UT Austin: Dr. Lawrence Gilbert, Dr. Alex Wild)
- **University of Texas Austin UT Insect Collection**, Jan 2017-Jun 2019: Student Researcher. Organized and imaged Pompilids, stack-photography imaging, assistant for fire ant documentary filming (Dr. Alex Wild)
- **University of Texas Austin FRI (Freshman Research Initiative)**, Jan 2016-Jun 2019: Researcher and Mentor studying "Microbial communities in the urban paper wasp *Polistes exclamans*." In addition, Summer 2019: EcoLab field site collector (UT Austin: Dr. Jo-anne Holley, Dr. Nancy Moran)

Presentations:

- University of Texas Spring Undergraduate Research Forum, Spring 2019: **Thermo Fisher Award for Excellence in Biological Sciences:** "Microbial communities associated with the social paper wasp *Polistes exclamans*"
- AAAS 2019 Conference flash talk: "The gut microbiomes of bees and wasps"
- AAAS 2019 Conference: ePoster in Environment and Ecology, "Microbial communities in the urban paper wasp *Polistes exclamans*"
- Capital of Texas Undergraduate Research Conference, Fall 2018: **Award of Excellence** for an Outstanding Oral Presentation of Research: "Microbial communities in the urban paper wasp *Polistes exclamans*"
- University of Texas Fall Undergraduate Research Symposium, Fall 2018: "Microbial communities in the urban paper wasp *Polistes exclamans*"

- AAAS 2018 Conference: **1st place** in Undergrad ePoster Presentation for Ecology, "Microbial communities in the urban paper wasp *Polistes exclamans*"
- University of Texas Fall Undergraduate Research Symposium, Fall 2018: "Microbial communities in the urban paper wasp *Polistes exclamans*"
- University of Texas Spring Undergraduate Research Forum, Spring 2018: "Microbial communities in the urban paper wasp *Polistes exclamans*"
- University of Texas Spring Undergraduate Research Forum, Spring 2017: "Microbial communities associated with social and solitary urban wasps"

Awards/ Grants/ Fellowships:

- Osa Conservation Research Fellowship, April-October 2021: fully funded fellowship to spend 6 months studying rainforest canopy ants on the Osa Conservation property in SW Costa Rica
- NSF Madagascar Ant Canopy Boot Camp, July 2019: student researcher, fully funded fellowship to cover travel and participation in canopy ant research in Madagascar
- NSF REU student at Sevilleta LTER, Summer 2018: funded research fellow, studied desert plant-pollinator interactions on Sevilleta National Wildlife Refuge
- University of Texas Graduates of Distinction, May 2019: graduate of distinction in the field of research
- Ari Yehiel Blattstein Endowment, Spring 2019: Granted by UT Austin Brackenridge Field Laboratory
- Outstanding Undergraduate Teaching Assistant Nominee, Spring 2018, Spring 2019: for Biology of Birds Course (BIO 340 L)
- University of Texas Travel Scholarship, Spring 2017: for AAAS conference in Washington DC
- University of Texas TIDES summer fellowship, Summer 2017: peer mentor and researcher
- University of Texas Undergrad Research Funding Grant, Fall 2017: continuation of research related to wasp microbiota
- University of Texas FRI first summer fellowship, Summer 2016: student researcher
- Davita K. T. Family Foundation Student Scholarship 2015
- Certification of Deafness Tuition Waiver (CODTW) program 2015-2019

Art/ Photo Contest Awards

- Focus on Biology Photo Contest, Spring 2019: 1st place "People of Science" for a self-portrait in the field, 2nd place in "Science Figures" for a digital illustration of a honeybee gut
- Visualizing Science Photo Contest, Fall 2018: 3rd place in UT Austin College of Natural Sciences, for a focus-stacked image of *Pheidole dentata*
- Focus in Biology Photo Contest, Spring 2018: 1st place "Science Subjects" for a stacked image of a beetle, honorary mention "People of Science" for a student portrait with a specimen

Teaching Experience:

- FRI (Freshman Research Initiative) Bugs in Bugs Stream, Spring 2016-Spring 2019: peer mentor, one of the lead mentors Spring 2018-Spring 2019, aided in lab work, project ideas, writing, lab organization, maintaining class website, creating protocols, creating/ grading assignments
- Biology of Birds, Spring 2018, 2019: undergraduate teaching assistant, aided in lab sessions, field trips, grading exams
- Animal Behavior lab, Fall 2018: guest lecture about fire ant research methods
- FRI Peer Mentor Training Facilitator 2017, 2018
- Science Sprint Mentor, Spring 2019: guided students during data collection sprint day
- UT EEB (Ecology, Evolution, Behavior) Club guest speaker, Fall 2020: career Q&A

- UT Geography Society guest speaker, Fall 2020: career Q&A

Outreach/ Volunteering:

Academic Volunteering/ Presentations (2022+)

- Co-review of a manuscript with Tobin Hammer for Trends in Microbiology
- Presentation of my Costa Rica project and general field ecologist experience for Tropical Biology undergraduate class (UCI, Dr. Jessica Pratt, BIO 6)

Outreach/ Collections

- University of Texas Insect Collection, Spring 2017- Summer 2019: Heavily involved in insect outreach programs across Austin, all ages. Assisted Ian Wright pinning sweep-net material, gave tours, imaged specimens
- FRI (Freshman Research Initiative), Spring 2016-Summer 2019: heavily involved in stream recruitment, public outreach, and an FRI Ambassador for university events, social media manager Fall 2018
- Texas Natural History Collections (Herpetology), Fall 2018: labelled and processed herpetology specimens
- Sevilleta National Wildlife Refuge, Summer 2018: Pinned samples for University of New Mexico Arthropod Division, Dr. Karen Wright's research
- Texas Biodiversity Day, Spring 2018: tabled and co-managed campus outreach event for the university's natural history collections
- San Antonio Rodeo FRI volunteer, Spring 2019: ran outreach booth for FRI stream and pollinators
- USGS Patuxent Native Bee lab, Fall 2020: volunteer, MAXENT and bee data

Field Volunteering

- Osa Conservation sea turtle patrols, Summer 2021: aided with morning censuses and night patrols with the Sea Turtle Program on the Osa Peninsula, Costa Rica
- Hummingbird banding, September 2019: helped Dr. Susan Wethington with hummingbird banding network site at Southwest Research Station, assisted in data collection and hummingbird feeding
- UT FRI Bugs in Bugs aquatic invertebrate sampling, June 2019: helped sample invertebrates from Austin creek systems for a new stream project
- Bamberger Ranch Preserve Herpetology Day, March 2018, March 2019: survey of herps present at three sites on Bamberger Ranch property in central Texas, for Selah iNaturalist project
- UT Ichthyology Collections, Spring 2018, 2019: aided with seining in central and southeast Texas for class
- Bird Conservancy of the Rockies, Jan 2019: mist-net assistant for Fabiola Baeza, trapping radio-tagged Grasshopper Sparrows, Marfa, Texas
- Bird Conservancy of the Rockies, Jan 2018: mist-net assistant for Denis Perez, trapping radio-tagged Grasshopper Sparrows, Marfa, Texas
- Christmas Bird Count, Dec 2017: Powderhorn Ranch, Texas
- Cummings Lab at University of Texas, Summer 2017-Spring 2018: Undergrad assistant, maintenance of field laboratory fish tanks

Scientific Communication

- UT Insect Collection NSF Documentary Grant, Fall 2018: assistant to Dr. Alexander Wild and Megan O'Connell for producing a fire ant documentary
- UT Texas Student Research Showdown, Fall 2018: produced outreach video on *Pheidole* research: [Pheidole habitat preference and parasitoid interactions: Jen Schlauch](#)

- UT Texas Student Research Showdown, Fall 2017: produced outreach video on *Polistes* research: [Microbial Communities Associated with the Social Paper Wasp](#)
- UT Austin Daily Texan Newspaper, Sci & Tech Dept, Fall 2016: one article per week covering university research
- UT Biodiversity Center Biodiversity Blog guest author, Spring 2019: <https://biodiversity.utexas.edu/news/entry/rodeo-of-insects-1>
- North Carolina State College of Agriculture and Life Sciences News guest Author, July 2019: "Tree-search: Ant Edition" <https://cals.ncsu.edu/news/madagascar/>
- Mention in article, Science News, "Texas has its own rodeo ant queens": <https://www.sciencenews.org/article/texas-has-its-own-rodeo-ant-queens?fbclid=IwAR1tt3-VVxSeFSR1bn66Q6f3jmPatuUa1nD7d6WkJJvyeSuxWDdGNL4sNv0>
- 2020 COVID "meet a scientist" video, home produced for Oakland middle school students: <https://www.youtube.com/watch?v=jVZOpgEggKY>
- Osa Conservation bee methods video, with captions in English and Español, Summer 2021: www.youtube.com/watch?v=CtL2z-wiMgU&t=227s
- Osa Conservation, Costa Rica, Summer 2021: outreach infographics and activities for local elementary children
- Zoom call, 2nd grader "meet an entomologist" for Bridget Bradshaw et al, schools in Idaho, April 2021

General Skills:

Wet lab technique, field collection and surveying (pollinators, botany, etc.), microbiome analysis, R and Excel analysis, QGIS/GIS mapping, insect identification/ pinning, collection databasing, insect stack-shot imaging, macro photography/ videography, scientific literature comprehension, beginner Spanish, Microsoft Office, Adobe (Fresco, Photoshop, Illustrator, Premiere, AfterEffects), ProCreate (iPad), Blender, birding, sport climbing/ bouldering, canopy tree climbing/ sampling, Canvas education site editing, student assignment creation/ grading, NGSS teaching comprehension, website building, mural design/ painting, traditional illustration (watercolor, gouache, ink, acrylic).

Related Undergrad Coursework:

Entomology, Field Ecology, Microbiology, Biology of Birds, Field Herpetology, Vertebrate Natural History, Ecology, Comparative Vertebrate Anatomy, Physical Anthropology, Animal Behavior, Biostatistics, Evolution, Science Communication, Conservation Biology, Honors Thesis Research, Geography of Latin America, Modern Art in Mexico