

John Paul Hellenbrand

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EDUCATION

- 2028 **Ph.D. Biology** (2022–Present)
City University of New York
Biology Program; Ecology, Evolutionary Biology, and Behavior Subprogram
Advisor: Dr. Andrew Reinmann
- 2022 **M.S. Integrative Biology**
Kennesaw State University
Department of Ecology, Evolution, and Organismal Biology
Advisor: Dr. Clint Penick
- 2019 **B.S. Environmental and Sustainability Science w/ Honors**
Cornell University
Department of Natural Resources & the Environment
Senior Thesis Advisor: Dr. Mark Whitmore

PROFESSIONAL EXPERIENCE

- 2019 **AmeriCorps High School Teaching Fellow** (2019-2020)
Marie Sklodowska Curie Metropolitan High School
Archer Heights, Chicago, Illinois
- 2018 **Undergraduate Research Assistant** (2018-2019)
New York State Hemlock Initiative
Ithaca, New York

PUBLICATIONS

- 2022 **Hellenbrand, JP.** & Penick, CA. *[In Review]* Ant cuticle sculpturing: diversity, classification, and function. *Myrmecological News*.

- 2022 Gardener, N., **Hellenbrand, JP.**, Phan, A., Zhu, H., Long, Z., Wang, M., Penick, CA., Hung, CC. 2022: Ant cuticle image classification using texture analysis: a comparative study. *Applied Computing and Intelligence 2*: 133-151.

GRANTS & AWARDS

- 2022 City University of New York Science Scholarship
2021 Finalist, David and Marvalee Wake Award for Best Student Talk, Society of Integrative and Comparative Biology
2021 Kennesaw State University Student Activities Budget Committee Travel Grant - **\$800**
2016 Cornell University Student Assembly Summer Experience Grant - **\$3,000**
2016 Engaged Cornell, ELR Community Engaged Travel Grant - **\$200**
2015 National Eagle Scout Association Scholarship - **\$2500**

Presentations

- 2022 Oral Presentation, “Ant Cuticle Microsculpture: diversity, classification, evolution, and function”, Kennesaw State University, Kennesaw, Georgia
2022 Poster Presentation, “Does a unique striated pattern provide ants protection from digging”, International Union for the Study of Social Insects International Congress, San Diego, California
2022 Poster Presentation, “Ant-lanta: food preference and diversity in the city”, Symposium of Student Scholars Spring, Kennesaw State University, Kennesaw, Georgia
2022 Oral Presentation, “Evolution of ant cuticle sculpturing”, Society for Integrative & Comparative Biology, Phoenix, Arizona
2021 Oral Presentation, “Cuticle variation in a striated genus of ants”, Symposium of Student Scholars Fall, Kennesaw State University, Kennesaw, Georgia
2021 Oral Presentation, “Ant cuticle sculpturing: diversity and classification”, Entomological Society of America Annual Meeting, Denver, Colorado
2021 Infographic Presentation, “Ant cuticle sculpturing: fashion or function?”, Entomological Society of America Annual Meeting, Denver, Colorado
2021 Oral Presentation, “Cuticle structure variation in *Pogonomyrmex*”, Symposium of Student Scholars Spring, Kennesaw State University, Kennesaw, Georgia
2021 Poster Presentation, “Ant cuticle sculpturing diversity”, Southeastern Branch of the Entomological Society of America Conference
2019 Poster Presentation, “A morphological study of dipteran predators on pine bark adelgid (*Pineus strobi*) in New York state”, Environmental and Sustainability Sciences Honors Symposium, Cornell University, Ithaca, New York

**Undergraduate lead presentations underlined*

TEACHING

Instructor

- 2022 BIOL 1108 Ecology, Guest Lecturer, Kennesaw State University, Kennesaw, Georgia
2019 9th Grade Algebra, Fall & Spring (co-instructor), Marie Curie Metropolitan High School, Chicago, Illinois

Teaching Assistant

- 2018 Oceanography, College of Agriculture and Life Sciences, Cornell University

Mentorship

- 2015 Midtown Educational Foundation; Academic Advisor for 6th - 8th grade students, Chicago, Illinois

Undergraduate Students (5)

Katy Chon, Rebecca Senft, Layne Buttram, Zach Peagler, Sofia Cuenca Rojas

Service & Outreach

Outreach Event

- 2022 Organizer & Host, "KSU Adobe Illustrator Workshop", Department of Ecology, Evolution, and Organismal Biology, Kennesaw, Georgia
2022 Organizer & Host, "Build Your Own Bee Box" Event, Pollinator Conservation Club, Kennesaw, Georgia
2022 Organizer & Host, "There are Bees in the KSU trees!" Event, Pollinator Conservation Club, Kennesaw, Georgia
2022 Organizer & Host, "Come See the KSU Pollinator Collection" Event, Pollinator Conservation Club, Kennesaw, Georgia
2021 Organizer & Host, "Say Goodbye to the Bees Club" Event, Pollinator Conservation Club, Kennesaw, Georgia
2021 Organizer & Host, "Level Up Your Entomology Skills" Event, Pollinator Conservation Club, Kennesaw, Georgia
2021 Organizer & Host, "The Great Campus Bee Hunt" Event, Pollinator Conservation Club, Kennesaw, Georgia
2021 Co-host, "The Great Georgia Pollinator Count" Volunteer Event, Pollinator Conservation Club Kennesaw, Georgia

Other

- 2022 Guest Lecturer, St. John's Elementary School 4th Grade Science Class, Waunakee, Wisconsin
- 2021 Panelist, Graduate School Informational Panel, Saga AmeriCorps, Chicago, Illinois
- 2021 Judge, Symposium of Student Scholars Fall, Kennesaw State University, Kennesaw, Georgia
- 2021 President, Pollinator Conservation Club at Kennesaw State University, Kennesaw, Georgia
- 2021 Co-founder, Pollinator Conservation Club at Kennesaw State University, Kennesaw, Georgia
- 2019 Volunteer, Hemlock Woolly Adelgid Exhibit, Insectapalooza, Cornell University, Ithaca, New York
- 2016 Volunteer Summer Research Assistant, University New South Wales, Sydney, Australia