

KENDALL KING

1220A Museum of Biological Diversity, 1315 Kinnear Rd. Columbus, OH 43212

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EDUCATION

The Ohio State University, Columbus, OH

Master of Science in Entomology, August 2017 – present

Dr. Norman F Johnson's Systematics Lab

Cumulative GPA: 3.67

American University, Washington, DC

Bachelor of Science in Biology, August 2013 – May 2017

Cumulative GPA: 3.29

PUBLICATIONS

King, K., Mottern, J. L., Shimbori, E. M., & Kula, R. R. (2018). Braconidae from Mount Desert Island and the Schoodic Peninsula Area of Acadia National Park and a New Nearctic Species of *Clinocentrus* Haliday (Hymenoptera: Braconidae: Rogadinae). *Proceedings of the Entomological Society of Washington*, 120(3), 549-567.

RESEARCH EXPERIENCE

Graduate Research Associate – Methods development for using Orco antagonist OX1w as a treatment for inhibiting olfactory-mediated behavior in adult insects

Smithsonian Tropical Research Institute, Barro Colorado, Panama, May – June 2018

- Testing and observing the effects of olfactory-mediated aggressive behaviors of fungus-farming *Acromyrmex* ants to determine binding properties and methods of application for OX1w as a test treatment.

Graduate Research Associate – Effects of Orco Inhibition on Female *Trissolcus basal* (Hymenoptera: Scelionidae) Host Acceptance Behavior

The Ohio State University Department of Entomology, Columbus OH, July 2018 – Present

- Testing and observing the effects of olfactory inhibition on female host acceptance using Orco antagonist OX1w, behavioral assays, and two host species (*Podisus maculiventris* and *Chinavia hilaris*).

Graduate Research Associate – Morphology and Distribution of Female *Trissolcus basal* (Hymenoptera: Scelionidae) Antennal Sensilla

The Ohio State University Department of Entomology, Columbus OH, August 2017 – Present

- Measuring the densities and distribution of trichoid antennal sensilla using scanning electron microscopy and comparing means of counted trichoids along the lateral surfaces of each female antennal segment. Observing presence of neurons in trichoid sensilla using transmission electron microscopy. Digitalizing 3D model using point-cloud density graph software.

Research Student – Braconidae of Acadia National Park

National Museum of Natural History, Washington DC, January 2016 – May 2017

- Managed project of roughly 400 braconid specimens collected from Acadia National Park, dehydrated specimens using HMDS protocol, mounted specimens on points and directly on pins, labeled specimens,

KENDALL KING C.V.

identified specimens to subfamily and genus, sorted specimens into morphospecies and identified them to species using diagnostic data in primary and secondary literature, as well as through reference to NMNH braconid collections.

Intern – Parasitoids and Herbivores Associated with Chestnut

National Museum of Natural History, Washington DC, Spring 2015

- Sorted insect samples from canopy Malaise traps set in Chinese chestnut trees, identified insect specimens to order or suborder and further identified hymenopteran specimens to family, dehydrated hymenopteran specimens using HMDS protocol, mounted braconid specimens on points and directly on pins, labeled specimens, and identified specimens to subfamily.

Intern – Braconid Wasp Diversity in Grasslands

National Museum of Natural History, Washington DC, Spring 2015

- Sorted hymenopterans from Malaise trap samples taken from grasslands on Maryland Eastern Shore.

TEACHING AND EMPLOYMENT EXPERIENCE

Graduate Research Associate

August 2017 – Present

The Ohio State University Department of Entomology

- Responsibilities: develop research proposals, manage multiple research projects under the advisory of Dr. Norman F Johnson, conduct research involving the following techniques: scanning electron microscopy (SEM), transmission electron microscopy (TEM), investigate the morphology, ultrastructure, and physiology of female *T. basalis* antennae, present proposal transition presentation, prepare thesis defense, design and implement undergraduate research collaboration proposal.

Graduate Teaching Associate

August 2017 – Present

The Ohio State University Center of Life Science Education

- ENT 1101 – Insect Biology: designed and graded lab assignments and activities, instructed weekly labs.
- BIO 1102 – Human Biology Online: graded virtual assignments and proctored exams.
- Head TA, BIO 1113 SEA Phage Lab: appointed by CLSE to provide leadership to SEA lab TAs, lead weekly TA meetings, take responsibility for administrative tasks associated with TAs and students, and administer Student Learning and Disability Services accommodations for students within CLSE.
- BIO 1113 – SEA Phage Lab: Instructed OSU biology laboratory partnered with the Science Education Alliance, instructed 12-week protocol designed to observe local bacteriophages, administered protocol demonstrations (phage isolation, purification by 3-phase streak dilutions, serial dilutions for titer assays, and DNA extraction).
- BIO 1114 – Form, Function, and Ecology Lab: Instructed OSU biology laboratory designed to educate students on the biology, evolution, and ecology of life.
- Reviewed exams, administered quizzes and lab practical, graded all course assignments (quizzes, written article summaries, notebook checks, final lab report, final lab practical, student participation, pre-lab questions, and other in-class assignments), designed and implemented recitation activities, taught scientific writing, lab skills, and presentation skills using self-designed teaching materials.

Administrative Assistant, Smithsonian Internship and Fellowship Program

May – August 2015

Smithsonian's National Museum of Natural History

- Coordinated, organized, and facilitated events for the summer Internship and Fellowship Program. Interviewed, recruited, and supervised a team of five interns to design and implement activities and events. Designed and presented 30-45 minute weekly orientation to newly arriving interns and fellows. Processed and catalogued all intern/fellow documentation for the museum's Office of Academic Services. Managed intern team's research project to collect historical and contemporary data to characterize the employee and volunteer workforce at NMNH since its foundation in 1846. Results of this research project were presented to NMNH director and administration.

Gallery Attendant Supervisor

April 2014 – August 2017

Katzen Museum, American University

- Part of a supervisory team that oversees gallery attendants during working hours and events. Responsible for opening and closing the museum, which includes setting up for events, managing all electronic and digital exhibitions, and maintaining clean and orderly galleries. Additional responsibilities include processing payments for access to special events and providing assistance to all customers.

Undergraduate Teaching Assistant

Fall 2014

American University Department of Biology

- BIO 110 – General Biology Lab: Taught basic laboratory techniques including gel electrophoresis and PCR amplification and assisted with managing student assignments and projects.

PRESENTATIONS & COMPETITIONS

- 2019 **King, K and Johnson, NF** Exploring Mechanisms of Parasitoid Diversification through the Lens of Chemosensory Speciation, *Entomological Society of America National Conference, November 2019 – 2nd place 10-minute student presentation competition*
- 2018 **King, K and Johnson, NF** Chemosensory Function and Morphology of Female *Trissolcus basalis* (Hymenoptera: Scelionidae) Antennal Sensilla, *The Ohio State University Department of Entomology, Oral Presentation, September 2018*
King, K Nature's Real-Life Body Snatchers: Parasitoid Wasps, *Ohio Ecology on Tap Event, Oral Presentation, August 2018*
- 2017 **King, K, Mottern, JL, Shimbori, EM, and Kula, RR**, Braconidae of Acadia National Park, *Entomological Society of America Conference, Virtual Poster, November 2017*
King, K and Kula, RR Braconidae of Acadia National Park, *Ohio Valley Entomological Association Competition, Oral Presentation, October 2017*

VOLUNTEER ORGANIZATIONS

Positions

- 2018 **President – Entomology Graduate Student Association, The Ohio State University, Columbus OH**
TA Mentor – Center of Life Sciences Education, The Ohio State University, Columbus OH
Social Chair – Entomology Graduate Student Association, The Ohio State University, Columbus OH
Linnaean Games – Member, The Ohio State University, Columbus OH
ESA Debate Team – Member, The Ohio State University, Columbus OH

Outreach and Extension Events

- 2019 **Museum Open House Event – EGSA volunteer; Museum of Biological Diversity, March 2019**
Bug Are For Girls – EGSA President, Girl Scouts of America, February 2018
- 2018 **Undergraduate Workshop – EGSA President, The Ohio State University, September 2018**
Bug Badges – EGSA President, Girl Scouts of America Brownie Troupe, September 2018
Welcome Week Student Involvement Fair – EGSA President, Ent. Grad. Student Association, August 2018
KidsFest – EGSA President, Groveport Recreation Department, August 2018
Bugstravaganza – EGSA President, Walnut Woods Metro Park, August 2018
Chadwick Arboretum Open House – EGSA President, Chadwick Arboretum, July 2018
Insect Night Walk – EGSA President, Entomology Graduate Student Association, June 2018
Ohio Future Farmers of America Convention – EGSA Booth, College of Food, Ag, and Env. Sciences, May 2018
Museum Open House Event – EGSA volunteer, Museum of Biological Diversity, April 2018
- 2017 **Entomology Fall Awards – EGSA Social Committee, OSU Department of Entomology, December 2017**

AWARDS/SCHOLARSHIPS

2019 Global Gateway Grant Award

- Competitive OSU university-wide award of \$1,500 to fund students who are conducting research abroad to pay for travel, housing, and materials expenses.

SEEDS Grant Award

- Competitive OSU College of Food, Agriculture, and Environmental Sciences graduate research award of \$5000 to conduct impactful thesis research, attend a conference, workshop, or event that has a clear impact on the student's professional development.

David J Horn Service Award

- Competitive OSU Department of Entomology graduate service award of \$250 to award students for their contribution to service, outreach, and community involvement within and around the OSU community.

2018 Ray Travel Award

- Competitive Ohio State University graduate research award for \$1000 to attend a conference, workshop, or event that has a clear impact on the student's professional development. The Ray Travel Award is given based on exemplary commitment to community service.

Outstanding TA Award Nomination

- Nominations for this award are submitted anonymously by students at the end of each academic year to recognize outstanding OSU Center of Life Sciences Education Teaching Associates.

2016 Mary and Eugene Condon Memorial Scholarship

- Competitive scholarship based on academic performance for a student within the American University College of Arts and Sciences with financial need.

2013 GEICO Scholarship

- Competitive 4-year scholarship based on academic performance among Undergraduate dependents of GEICO employees in Chevy Chase/Bethesda Plaza area.

Polk County Gifted Students Scholarship

- Competitive scholarship based on a selected essay that described what it means to be a gifted student and how it has affected my academic career.

RELEVANT COURSES

Undergraduate

- Biology of Insects
- Introduction to Ecology
- Genetics with Laboratory
- Evolution
- Organic Chemistry with Laboratory
- General Statistics
- Biotechnology
- Cell Biology with Laboratory
- Microsoft PowerPoint Certification
- Microsoft Excel Certification

Graduate

- Insect Molecular Physiology with Laboratory
- Topics of Biology Teaching
- Intermediate Data Analysis
- Evolution and Diversity of Insects
- Nature and Practice of Science
- Presentation Skills
- Insect Ecology and Evolution
- College Teaching