

Able Chow

Curriculum Vitae

18 July 2022

Department of Entomology, 404 Life Science Building
Louisiana State University, Baton Rouge, LA 70803
www.thelordlab.com | achow4@lsu.edu | [instagram](#)
ORCID: [0000-0001-8994-8081](https://orcid.org/0000-0001-8994-8081) | [ResearchGate Profile](#)

Education

Ph.D., Entomology (present). Department of Entomology. Louisiana State University.

Major Advisor: Dr. Nathan P. Lord.

Dissertation Title: *Structural color and systematics of genus Chrysochroa (Coleoptera: Buprestidae)*

B.S., Entomology (2018). Department of Entomology. University of Florida.

Major Advisor: Dr. Rebecca Baldwin.

Research Experience

Lab Research

- 2018 – present. **Graduate Research Assistant.** Investigating color as novel suites of taxonomic character in Buprestidae (NSF Funded Project). Principal Investigator: Dr. Nathan P. Lord, Lord Lab, Louisiana State University
- 2017 – 2018. **Slide preparator.** Developing Identification Tools for *Anastrepha* fruit fly larva (USDA Funded Project) Supervisor: Dr. Gary Steck, Florida Department of Agriculture and Consumer Services
- 2016 – 2017. **Undergraduate Research Assistant.** Firefly flash pattern analysis project Supervisor: Dr. Marc A. Branham, Insect Systematics and Behavior Lab, University of Florida

Collections Research

2019. Museum National d'Histoire Naturelle, Paris, France. Oct. 13 – 20
2019. National Museum, Prague, Czech Republic. Oct. 3 – 12
2019. California State Arthropod collection, Sacramento, USA. Jul. 28 – Aug. 3
2019. California Academy of Sciences, San Francisco, USA. Jul. 24 – 27

Published Extension Articles

2021. **Chow, A.,** Reagan, T., Huval, F., Carlton, C., *Necrophila americana*, American Carrion Beetle (Coleoptera: Silphidae), Bug Biz Series, LSU AgCenter Publication, Louisiana State University. [Link](#)
2020. **Chow, A.,** Reagan, T., Huval, F., Carlton, C., *Photinus pyralis*, Big Dipper Firefly (Coleoptera: Lampyridae), Bug Biz Series, LSU AgCenter Publication, Louisiana State University. [Link](#)
2020. **Chow, A.,** Reagan, T., Huval, F., Carlton, C., *Pyrractomena* spp., Spring Fireflies (Coleoptera: Lampyridae), Bug Biz Series, LSU AgCenter Publication, Louisiana State University. [Link](#)

Awards and Grants

2021. Graduate Student Research Enhancement Award: Improvement Award. The Coleopterists Society. (\$2000). Jun. 24
2019. Graduate Student Association Travel Award. Louisiana State University. (\$200). Oct. 31

Professional Presentations

Oral Presentations

2022. **Chow, A.,** & Lord, N. Taxonomy in color: Illuminating the taxonomy of *Chrysochroa* by understanding structural color. Society for Integrative and Comparative Biology 2022 Annual Meeting. Virtual
2021. **Chow, A.,** & Lord, N. Taxonomy in color, revision of the subgenus *Chrooxantha* (Coleoptera: Buprestidae: *Chrysochroa*) using morphological and color data. Entomological Society of America Annual Meeting 2021. Denver, Colorado.
2021. **Chow, A.,** & Lord, N. Color and Species Delimitation in Jewel Beetles: From Subjective Perception to Objective Definition. 11th Annual LSU Entomology Department Graduate Student Symposium. Baton Rouge, Louisiana.
2021. **Chow, A.,** & Lord, N. Taxonomy in color: understanding structural color informs jewel beetle taxonomy. Living Light 2021. Virtual.
2021. **Chow, A.,** & Lord, N. Jewels of Iridescence: Mechanisms of Structural Color and its Significance in Insect Systematics. Society for Integrative and Comparative Biology 2021 Virtual Annual Meeting. Virtual.
2019. **Chow, A.,** & Lord, N. Jewels of iridescence: Mechanisms of structural color and implications for taxonomy. Entomological Society of America Annual Meeting 2019, St. Louis, Missouri.
2019. **Chow, A.,** & Lord, N. When Color Science meets Taxonomy: Revision of subgenus *Chrooxantha* Hołyński, 2009. 10th Annual LSU Entomology Department Graduate Student Symposium. Baton Rouge, Louisiana.
2019. **Chow, A.,** & Lord, N. Iridescent characters: a taxonomic revision of subgenus *Chrooxantha* (Coleoptera: Buprestidae: *Chrysochroa*). LSU Department of Entomology Seminar, Louisiana State University. Baton Rouge, Louisiana. Sep. 20

Poster Presentations

2018. **Chow, A.**, & Lord, N. The Physics, Biology, and Evolution of Cuticular Iridescence in Jewel Beetles. 9th Annual LSU Entomology Department Graduate Student Symposium. Baton Rouge, Louisiana.
2017. **Chow, A.**, Branham, M., & Keller, O. Developing a Data Pipeline (workflow) to Digitally Record and Analyze Firefly Flash Patterns. International Firefly Symposium, Taipei, Taiwan.

Contributed Oral Presentations

2022. Canton, R.C., **Chow, A.**, Moncrieff, A.E., Brumfield, R.T., Lord, N., Faircloth, B.C. Evolution of Super-Black Plumage in *Lepidothrix* (Pipridae, Passeriformes). American Ornithological Society and Birds of the Caribbean 2022. San Juan, Puerto Rico.

Conference Participation

2022. Society for Integrative and Comparative Biology Annual Meeting. Virtual. Jan. 14 - Mar 31
2021. Entomological Society of America Annual Meeting 2021. Denver, Colorado. Oct. 31–Nov. 3
2021. 11th Annual LSU Entomology Department Graduate Student Symposium. Baton Rouge, Louisiana. Oct. 22
2021. Early Career Researcher Living Light 2021. Virtual. Sep. 22–23
2021. Society for Integrative and Comparative Biology Annual Meeting. Virtual. Jan. 3–Feb. 28
2019. Entomological Society of America Annual Meeting 2019. St. Louis, Missouri. Nov. 17–20
2019. 10th Annual LSU Entomology Department Graduate Student Symposium. Baton Rouge, Louisiana. Oct. 25
2018. Entomological Society of America Annual Meeting 2018. Vancouver, British Columbia
2018. 9th Annual LSU Entomology Department Graduate Student Symposium. Baton Rouge, Louisiana. Oct. 15
2017. Entomological Society of America Annual Meeting 2017. Denver, Colorado
2017. International Firefly Symposium 2017. Taipei, Taiwan. Apr. 24-26
2017. Entomological Society of America Southeastern Branch Conference 2017. Denver, Colorado

Exhibitions

2022. Iridescence: Interdisciplinary Inspiration. Contributor. Capsule exhibition of larger LASM Iridescence exhibition, highlighting art and science collaboration. Boyce Gallery at the College of Art & Design, Louisiana State University.
- 2021–2022. Contributor of Iridescence, a featured exhibition at the Louisiana Art & Science Museum, Baton Rouge. This exhibition features the scientific works of Dr. Nathan Lord and his graduate students, invited works from renowned artists, and a juried competition ([link](#)).

Training and Workshop Attended

2020. TEM specimen preparation and scope operation training. Georgia Microscopy. Dr. John Shields. Oct. 28-30
2021. SEM specimen preparation and scope operation training. LSU Shared Instrument Facilities. Dr. Yang Mu. Jan. 26-Feb. 1

Teaching Assistantship

2021. General Entomology (ENTM 7001). Louisiana State University. Fall Semester
2 lectures given. Insect Behavior and Insect Morphology

Outreach and Services

- 2022. Volunteer for Bioblitz 2022, at the BREC Forest Community Park, Baton Rouge, LA. Apr. 8
- 2022. Volunteer for AgMagic, 2022, at the Parker Coliseum in LSU, Baton Rouge, LA. Mar. 30-31
- 2021. Guest educator for BREC Zoo children's summer camp, Baton Rouge, LA. Jul. 13
- 2021. Assisted in BREC Bluebonnet children's summer camp, Baton Rouge, LA. Jun. 8
- 2020. Assisted in the production of the 4-H University Insect Identification Contest for Louisiana for an on-line format. Baton Rouge, LA. June 25
- 2019. Volunteer at Night at the Museum, at the Louisiana State Arthropod Museum, Baton Rouge, LA. Sep. 19
- 2019. Volunteer for AgMagic, 2019 at the Parker Coliseum in LSU, Baton Rouge, LA. Apr. 18
- 2017. Student Volunteer at University of Florida Department of Entomology outreach booth, Florida State Fair
- 2015. Student Volunteer at University of Florida Department of Entomology outreach booth, Florida State Fair