

**Dr. Zachary Griebenow**  
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## PROFESSIONAL EXPERIENCE

### Employment

- |  |                              |
|--|------------------------------|
| <i>USDA-ARS Systematic Entomology Laboratory</i>                       | <i>2025-present</i>          |
| <ul style="list-style-type: none"><li>• Postdoctoral scholar</li></ul> |                              |
| <i>Borowiec Laboratory, Colorado State University</i>                  | <i>2023-2025</i>             |
| <ul style="list-style-type: none"><li>• Postdoctoral scholar</li></ul> |                              |
| <i>Triplehorn Insect Collection, The Ohio State University</i>         | <i>2014-2015</i>             |
| <ul style="list-style-type: none"><li>• Research Assistant</li></ul>   |                              |
| <i>Triplehorn Insect Collection, The Ohio State University</i>         | <i>2017, 2016, 2013-2014</i> |
| <ul style="list-style-type: none"><li>• Curatorial Assistant</li></ul> |                              |

### Research

- Postdoctoral Research, USDA ARS Systematic Entomology Laboratory*
- Species delimitation and identification of *Diprion* (Tenthredinoidea: Diprionidae) with molecular and morphological tools *PI: Michael Gates*
- Postdoctoral Research, Colorado State University*
- Phylogenomic divergence-dating of the Trigonalidae (Hymenoptera: Trigonaloidea) *PI: Marek Borowiec*
- Doctoral Research, University of California, Davis*
- Dissertation: “Systematic revision of the ant subfamily Leptanillinae (Hymenoptera: Formicidae) based on reciprocal illumination from phylogenomics and morphology” *PI: Philip Ward*
    - [Exit seminar](#)
- Undergraduate Research with Distinction, The Ohio State University*
- Thesis: “Revision of diagnostic morphological characters in three Puerto Rican species of the termite genus *Heterotermes* (Dictyoptera: Rhinotermitidae)” *PI: Susan Jones*

## EDUCATION

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|--|------------------|
| <b>University of California, Davis</b>                               | <i>2017-2023</i> |
| <i>Doctor of Philosophy, Entomology</i>                              |                  |
| <ul style="list-style-type: none"><li>○ Advisor: Phil Ward</li></ul> |                  |
| <b>The Ohio State University</b>                                     | <i>2013-2017</i> |
| <i>B.S. Agriculture, Major: Entomology, magna cum laude</i>          |                  |

## PUBLICATIONS

### *Published*

#### Peer-reviewed

- Oberski, J. T.,\* **Griebenow, Z. H.,\*** et al. (2025). Ant systematics: past, present, and future. *Insect Systematics & Diversity*, 9(4), 11.
- Aibekova, L., Richter, A., Beutel, R. G., Economo, E. P., **Griebenow, Z. H.**, and Boudinot, B. E. (2025). The mesosoma of *Protanilla* (Leptanillinae), a phylogenetic key taxon of ants (Formicidae, Hymenoptera). *Journal of Morphology*, 286(7), 70064.
- **Griebenow, Z. H.**, Richter, A., Economo, E. P., Dang, A. V., and Yamada, A. (2025). Four new species of Leptanillinae (Hymenoptera: Formicidae) from northern Vietnam described with phylogenomics and micro-computed tomography. *European Journal of Taxonomy*, 987, 98-145.
- **Griebenow, Z. H.** (2024). Systematic revision of the ant subfamily Leptanillinae (Hymenoptera, Formicidae). *ZooKeys*, 1189, 83-184.
- **Griebenow, Z. H.**, Richter, A., van de Kamp, T., Economo, E. P., and Lieberman, Z. E. (2023). Comparative morphology of male genital skeletomusculature in the Leptanillinae (Hymenoptera: Formicidae), with a standardized muscular terminology for the male genitalia of Hymenoptera. *Arthropod Systematics & Phylogeny*, 81, 945-1018.
- **Griebenow, Z. H.**, Isaia, M., and Moradmand, M. (2022). Discovery of a troglomorphic ant (Hymenoptera: Formicidae: Leptanillinae: *Yavnella laventa* sp. nov.) in southwestern Iran, with the first description of the worker caste of *Yavnella* Kugler. *Invertebrate Systematics*, 36, 1118-1138.
- **Griebenow, Z. H.** (2021). Synonymisation of the male-based ant genus *Phaulomyrma* (Hymenoptera, Formicidae) with *Leptanilla* based upon Bayesian total-evidence phylogenetic inference. *Invertebrate Systematics*, 35(6), 603-636.
- **Griebenow, Z. H.** (2020). Morphological and phylogenomic delimitation of tribes in the subfamily Leptanillinae (Hymenoptera: Formicidae), with a description of the male of *Protanilla lini* Terayama, 2009. *Myrmecological News*, 30, 229-250.
- **Griebenow, Z. H.**; Jones, S. C.; and Eaton, T. D. (2017). Seeking quantitative morphological characters for species identification in soldiers of Puerto Rican *Heterotermes* (Dictyoptera: Blattaria: Termitidae: Rhinotermitidae). *ZooKeys*, 725, 17-29.

#### Not peer-reviewed

- **Griebenow, Z. H.** (2023). “*Superfamilies Stephanoidea, Megalyroidea, & Trigonaloidea*”. In: *Biodiversity & Classification of Wasps* (1st edition), pp. 349-360. (State College: Pennsylvania State University Libraries). Eds.: Nastasi, L. F.; Kresslein, R. L.; Fowler, K. O.; Flores, S. R. F.
- **Griebenow, Z. H.** (2017). Unusual owl moth find in Ohio. *The Ohio Lepidopterist*, 39(3), n.pg.

### *Unpublished*

- Boudinot, B. E., Khouri, Z., Richter, A., **Griebenow, Z. H.**, van de Kamp, T., Perrichot, V., and Barden, P. (preprint). Evolution and systematics of the Aculeata and kin (Hymenoptera), with emphasis on the ants (Formicoidea: †@@@idae fam. nov., Formicidae). <https://www.biorxiv.org/content/10.1101/2022.02.20.480183v1>

\*co-first author

## GRANTS & AWARDS

UC Davis Dept. of Entomology & Nematology, Laidlaw-Smith Grant, 2023	\$4,082
Entomological Society of America (ESA), SysEB Travel Award, 2022	\$1,500
Museum of Comparative Zoology, Ernst Mayr Travel Grant, 2020	\$1,120
The Ohio State University, Research Scholar Award, 2016	\$1,000

## TEACHING

- *Teaching Assistant, Entomology 107, "California Insect Diversity", UC Davis*  
Spring Quarter 2023
- *Proctor, Grader, & Guest Lecturer; Entomology 010, "Natural History of Insects"; UC Davis*  
Winter Quarters 2019-23
- *Teaching Assistant, Entomology 109, "Insect Taxonomy & Field Ecology"; UC Davis*  
Spring Quarter 2022
- *Teaching Assistant, Entomology 100L, "General Entomology"; UC Davis*  
Autumn Quarter 2021
- *Guest Speaker, "To Tell a Story" senior high school project, Da Vinci Charter Academy, Davis, CA*  
January 29, 2021
- *Teaching Assistant, Biological Sciences 2C, UC Davis* Winter Quarters 2018-9

## PROFESSIONAL PRESENTATIONS

- **Griebenow, Z. H.** (2025). Phylogeny of the Leptanillinae (Hymenoptera: Formicidae), reciprocally illuminated by phylogenomics and male morphology. Live virtual presentation, Evolution 2025, May 30.
- **Griebenow, Z. H.**, Eskew, S., Brown, V., & Borowiec, M. L. (2024). The first genome-scale phylogeny of the Trigonaloidea (Apocrita: Trigonaloidea): preliminary results. Live virtual presentation, at "Hymathon", hosted by the International Society of Hymenopterists, December 5.
- **Griebenow, Z. H.** (2024). Phylogenetic placement of mysterious ant *Leptanilla anomala* (Hymenoptera: Formicidae: Leptanillinae) somewhat resolved by Bayesian total-evidence inference. Poster at the International Congress of Entomology, August 27, Kyoto, Japan.
- **Griebenow, Z. H.** (2024). Comparative skeletomusculature of male genitalia in leptanilline ants (Hymenoptera: Formicidae: Leptanillinae). Postdoctoral Research Symposium, Colorado State University, March 1, Fort Collins, CO.
- **Griebenow, Z. H.** (2023). Phylogeny of the Leptanillinae (Hymenoptera: Formicidae), reciprocally illuminated by phylogenomics and male morphology. In-person presentation at the joint annual meeting of the Entomological Society of America, November 8, National Harbor, MD.
- **Griebenow, Z. H.** (2022). Systematic revision of the obscure ant subfamily Leptanillinae (Hymenoptera: Formicidae), reciprocally informed by phylogenomic inference and morphological data. In-person presentation at the joint annual meeting of the Entomological Society of America, November 14, Vancouver, BC.

- **Griebenow, Z. H.**, Lieberman, Z. E., Richter, A., Fischer, G., Economo, E., & van de Kamp, T. (2022). "*Iä! Noonilla fhtagn!*" Description of bizarre male genital skeletomusculature in the ant subfamily Leptanillinae (Hymenoptera: Formicidae). In-person presentation at the annual meeting of the Pacific Branch of the Entomological Society of America, April 1, Santa Rosa, CA.
- **Griebenow, Z. H.**, Lieberman, Z. E., Richter, A., Fischer, G., Economo, E., & van de Kamp, T. (2022). "*Iä! Noonilla fhtagn!*" Description of bizarre male genital skeletomusculature in the ant subfamily Leptanillinae (Hymenoptera: Formicidae). Live virtual presentation, at "Hymathon", hosted by the International Society of Hymenopterists, March 30.
- **Griebenow, Z. H.**, Moradmand, M., & Isaia, M. (2021). Discovery of a putative troglomorphic ant (Hymenoptera: Formicidae: Leptanillinae). In-person presentation at the annual meeting of the Entomological Society of America, November 1, Denver, CO.
- **Griebenow, Z. H.**, Moradmand, M., & Isaia, M. (2021). Discovery of a putative troglomorphic ant (Formicidae: Leptanillinae: *Leptanilla* sp.) in southwestern Iran. Live virtual presentation at "Hymathon", hosted by the International Society of Hymenopterists, May 6.
- **Griebenow, Z. H.** (2020). Total-evidence Bayesian inference and the phylogeny of aberrant ants (Formicidae: Leptanillinae). On-demand presentation at the virtual annual meeting of the Entomological Society of America, November.
- **Griebenow, Z. H.**, Fischer, G., & Economo, E. (2019). Total-evidence analysis of male Leptanillinae (Hymenoptera: Formicidae) clarifies phylogeny of male-based taxon *Phaulomyrma*. Presentation at the annual meeting of the Entomological Society of America, November 18, St. Louis, MO.
- **Griebenow, Z. H.**, Fischer, G., & Economo, E. (2019). Preliminary characterization of male morphology in the Leptanillinae (Hymenoptera: Formicidae) for phylogenetic inference. Presentation at the annual North American meeting of the International Society of Hymenopterists, November 17, St. Louis, MO.
- **Griebenow, Z. H.**, Fischer, G., & Economo, E. (2018). Preliminary characterization of male morphology in the Leptanillinae (Hymenoptera: Formicidae) for phylogenetic inference. Presentation at the annual meeting of the Entomological Society of America, November 6, Vancouver, BC.
- **Griebenow, Z. H.**, Jones, S. C., & Eaton, T. D. (2017). Revision of Diagnostic Morphological Traits in Three Caribbean Species of *Heterotermes* (Dictyoptera: Rhinotermitidae). Virtual poster at the annual meeting of the Entomological Society of America, Denver, CO.
- **Griebenow, Z. H.**, Jones, S. C., & Eaton, T. D. (2017). Revision of Diagnostic Morphological Traits in Three Caribbean Species of *Heterotermes* (Dictyoptera: Rhinotermitidae). Presentation at the annual meeting of the North Central Branch of the Entomological Society of America, June 7, Indianapolis, IN.
- **Griebenow, Z. H.**, Jones, S. C., & Eaton, T. D. (2016). Revision of Diagnostic Morphological Traits in Four Caribbean Species of *Heterotermes* (Isoptera: Rhinotermitidae). Presentation at the annual meeting of the Ohio Valley Entomological Society, November 4, Purdue University, West Lafayette, IN.

- **Griebenow, Z. H.**, Jones, S. C., & Eaton, T. D. (2016). Revision of Diagnostic Morphological Traits in Four Caribbean Species of *Heterotermes* (Isoptera: Rhinotermitidae). Poster presented at the 21<sup>st</sup> annual Denman Undergraduate Research Forum, March 30, The Ohio State University, Columbus, OH.
- **Griebenow, Z. H.**, Jones, S. C., & Eaton, T. D. (2016). Revision of Diagnostic Morphological Traits in Four Caribbean Species of *Heterotermes* (Isoptera: Rhinotermitidae). Poster presented at the CFAES Undergraduate Research Forum, February 18, The Ohio State University, Columbus, OH.

## HONORS

- **ESA President's Prize** for 10-minute talk on thesis project in "SysEB – Evolution 1" section 2022
- Member of the University of California-Davis' Entomology Games team, winning **1<sup>st</sup> place** in the ESA 2018 and [2022](#) Entomology Games national championships 2018-2022
- Placed **2<sup>nd</sup>** in Hymathon (International Society of Hymenopterists) student competition 2022
- Member of The Ohio State University's Entomology Games team, winning **2<sup>nd</sup> place** in ESA national championship 2017
- Placed **2<sup>nd</sup>** in undergraduate category at the Ohio Valley Entomological Association's Research Forum 2016

## SERVICE

- Peer review for the following journals
  - *PeerJ* (1), *Insectes Sociaux* (1), *ZooKeys* (1), *Zootaxa* (2), *Insect Systematics & Diversity* (1), *Asian Myrmecology* (1), *Proceedings of the Entomological Society of Washington* (1)
- ENTO 632, "Professional Grant & Contract Writing", Texas A&M
  - Detailed feedback on student assignment
- Ward Laboratory
  - Laboratory Safety Officer 2020-2023
- Entomology Graduate Student Association, University of California, Davis
  - Secretary 2021-2022
  - Vice President 2019-2020
  - Graduate Student Association representative 2018-2019
- Ohio State University Collective of Undergraduate Entomologists (Chrysalis)
  - President 2016-2017
  - Treasurer 2015-2016
- Alpha Zeta Partners, Townshend Chapter, The Ohio State University
  - CFAES Student Council Representative 2016-2017
  - Appeals Board Representative for cohort 2015-2016

**EXTENSION**

- “Science Snacks”, Senate of Scientists*, Smithsonian Institution, Washington, D.C.  
*April 2025*
- Youth Career Exploration Expo, National 4-H Conference*, Smithsonian Institution,  
Washington, D.C. *April 2025*
- CSU Entomology Club*, talk concerning male genital skeletomusculature in the Leptanillinae  
(Hymenoptera: Formicidae) *November 2024*
- Highland Middle School*, tour of C. P. Gillette Museum, Fort Collins, CO  
*April 2024*
- Family Day, Gregory Allicar Museum of Art*, volunteer for C. P. Gillette Museum exhibit, Fort  
Collins, CO *February, May, September 2024*
- WaspID, lecture, “Superfamilies Stephanoidea, Megalyroidea, & Trigonaloida”*, virtual  
*January 2023-2024*
- Bohart Open House*, R. M. Bohart Museum of Entomology; UC Davis *May 2023*  
*January 2020*
- Picnic Day, University of California-Davis*, volunteer at Entomology & Nematology  
Department’s Picnic Day open house (annual) *2018-2023*
- Biodiversity Museum Day*, Bohart Museum of Entomology; UC Davis  
*February 2023*  
*March 2022*  
*February 2021 (virtual)*  
*February 2020*  
*February 2019*
- Guest Lecture, BIO 155.01: Systematics, Ateneo de Manila University*, Quezon City,  
Philippines *September 2022*
- “Bio Boot Camp”*, Bohart Museum of Entomology/Campus Recreation Youth Programs,  
University of California, Davis *July 2022*
- DCCNS Cooperative Preschool*, Davis, CA *May 2022*  
*February 2020*
- Skype-a-Scientist* *February 2022*  
*April 2021*
- UC Davis Entomology Club*, talks on systematic revision of the Leptanillinae  
(Hymenoptera: Formicidae) *December 2021*  
*February 2020*

Zachary Griebenow, C.V.

*Roseville Bug & Bird Bonanza*, volunteer for Bohart Museum of Entomology exhibit  
February 2019

*Explorit Science Center*, volunteer for Bohart Museum of Entomology exhibit  
October 2018

*“Engaging with Insects” 4-H Camp*, volunteer  
June 2016-2017

*“Life, et al.”, Entomology Blogger* December 2012-December 2018

- Personal blog written almost exclusively about entomological topics
  - <http://gentlecentipede.blogspot.com/>

*“The Daily Entomologist” Blogger, University of Kentucky*

- Writer by invitation of Dr. Blake Newton for official university entomology blog
  - <http://ukyentomology.blogspot.com/>

July 2012-May 2016

*Museum of Biological Diversity: Triplehorn Insect Collection*, Museum Open Houses  
April 2016-2017

February 2014

*Sycamore Creek Elementary*, Fall Festival

September 2014

*Independent homeschooling group*

- Taught ten elementary/middle-school age children basic insect field identification skills, assisting them in creation of insect collections  
June 2013

## **ADDITIONAL EXPERIENCE**

- Digital Imaging for Biodiversity Collections Workshop, iDigBio Digitization Academy  
July 2025
- Entomology Collections Management Workshop, Yale Peabody Museum  
July-August 2024
- “Ant Course”, California Academy of Sciences; Cuc Phuong National Park, Vietnam  
August 2022
- Seminar on Hybrid College Teaching (EDU 398), Center for Educational Effectiveness, UC Davis  
Spring Quarter 2021
- Bodega Bay Applied Phylogenetics Workshop, UC Davis  
May-June 2019
- Termite Biology & Control Workshop, IFAS, University of Florida  
June 2017