

Research Assistant | 2014 – 2016 | Macalester College

- Investigated the phylogeny and divergence dates of *Austropurcellia* mite harvesters.
- Independently performed Sanger sequencing techniques including PCR, gel electrophoresis, and DNA quantification.
- Taught myself ML and Bayesian phylogenetics software including MrBayes and BEAST.

Lab Inventory Assistant | 2014 – 2016 | Macalester College

- Performed curatorial work sprucing up Macalester College's neglected insect collection.
- Reorganized drawers, added student collections, and identified specimens to family.

TEACHING EXPERIENCE

Instructor, Senckenberg School | 2024 | Senckenberg Natural History Museum

- Co-teaching Entomology for a two-year degree program in museum curatorial assistantship.
- Topics: Insect identification, field collection tools and methods, and laboratory skills.

Pedagogy Training: Seminar on College Teaching | 2022 | University of California Davis

- Learned how to implement evidence-based, DEI-infused teaching practices.
- Applied integrated course design and active learning principles to traditional lessons.
- Created essential elements of a teaching portfolio, including a course syllabus.

Instructor, Vineyard Ant Identification | 2022 | UC Cooperative Extension, Sonoma & Napa Co.

- Led six workshops in Sonoma and Napa counties for vineyard managers, growers, and integrated pest management specialists.
- Introduced students to technical taxonomic information at an accessible level.
- Emphasized cooperative, hands-on practice using dissecting microscopes and an ID key.

Teaching Assistant, Intro Bio: The Tree of Life | 2021 – 2023 | University of California Davis

- Independently taught two lab sections per quarter of BIS 002C introductory biology.
- Led students through lab manual activities and taught presentation skills.
- Coordinated Zoom meetings with many participants, breakout rooms, and screen sharing.
- Gently evaluated student mental health and barriers to learning during the COVID-19 pandemic and responded appropriately.

Teaching Assistant, Natural History of Insects | 2018 – 2023 | University of California Davis

- Helped facilitate Natural History of Insects, an entomology course taught by grad students.
- Integrated classroom technologies such as TopHat and remote access.
- Lectured 1-2 times per quarter on the following topics:
 - o Cultural Entomology (2018, 2019, 2020)
 - o Insects of Davis / Household and Garden Arthropods (2019, 2020)

Course Development, Natural History of Insects | 2017 – 2018 | University of California Davis

- Reviewed pedagogical techniques with other graduate students and a faculty advisor.
- Worked together to bring ENT 010 from course concept to syllabus to fruition.
- ENT 010, Natural History of Insects, was first offered Winter Quarter 2018.

Teaching Assistant, Biodiversity and Evolution | 2015 – 2016 | Macalester College

- Guided students through complex material in BIOL 270.
- Led exam review sessions, recorded video tutorial screencasts, and graded assignments.

Pedagogy Training: Education & Emerging Technologies | 2015 | Macalester College

- Learned to use 15+ classroom and learning technologies, e.g., Kurzweil and OCR
- Course content emphasized accessibility aids for students with disabilities

Student Manager, Digital Resource Center | 2014 – 2016 | Macalester College

- Trained faculty and students to use and troubleshoot creative media software, e.g. the Adobe suite, SketchUp, Final Cut Pro, iMovie, Audacity, GarageBand, and input from MIDI devices.

PUBLICATIONS

Boudinot, B.E., B.L. Bock, D. Tröger, M. Weingardt, J.U. Hammel, V. Grabe, M.M. Solórzano-Kraemer, K. Jandausch, **J.T. Oberski**, T. Schmuck. Discovery of Goethe's amber ant: its phylogenetic and evolutionary implications. 2026, **Scientific Reports** 16(1): 2880. <https://doi.org/10.1038/s41598-026-36004-4>

Boudinot, B.E., C. Xu, D. Li, **J.T. Oberski**, A. Richter, C. Luo, R.G. Beutel. Fossil gaps, ghost lineages, and 'major extinction events'. 2026, **Current Biology** 36(2): R48–R49. <https://doi.org/10.1016/j.cub.2025.11.008>

Oberski, J.T.*, Z.H. Griebenow*, R.M.M. Adams, A. Andersen, J. Andrade-Silva, P. Barden, M. Borowiec, S. Brady, S. Csősz, A.M. Dias, R.K.S. Dias, R.M. Feitosa, F. Fernandez, A. Casadei-Ferreira, B.L. Fisher, D.E.M. General, K. Gomez, M. Janda, A. Khalife, N. Ladino, Z. Lieberman, M. Menchetti, L. Pires do Prado, R.S. Probst, A. Punnath, A. Richter, R.R. Silva, S. Salata, A.F. Sánchez-Restrepo, E. Schifani, T.R. Schultz, J. Sosa-Calvo, M.C. Tocora, M.A. Ulysséa, W. Wang, J. Williams, G.P. Camacho**, B.E. Boudinot**. Ant Systematics: Past, present, and future. 2025, **Insect Systematics and Diversity** 9(4):11. <https://doi.org/10.1093/isd/ixaf025> (*Co-first authors. **Co-last authors.)

Oberski, J.T. UCE phylogenomics illuminates the evolutionary history and biogeography of *Dorymyrmex* pyramid ants. 2025, **Systematic Entomology** 50(2): 325-348. <https://doi.org/10.1111/syen.12658>

Oberski, J.T. A first phylogenomic assessment of the amphitropical New World ant genus *Dorymyrmex* (Hymenoptera: Formicidae), a longstanding taxonomic puzzle. 2022, **Insect Systematics and Diversity** 6(1): 1-8. <https://doi.org/10.1093/isd/ixab022>

Godfrey, R.K., T. Allmark, C. Givens, J. Hernandez-Rivera, **J.T. Oberski**, and W. Gronenberg. Olfactory system morphology suggests colony size drives trait evolution in odorous ants (Formicidae: Dolichoderinae). 2021, **Frontiers in Ecology and Evolution** 9:733023. <https://doi.org/10.3389/fevo.2021.733023>

Oberski, J.T. Translation from German of Remane, A. (1956), Die Grundlagen des natürlichen Systems der vergleichende Anatomie und der Phylogenetik. The fundamentals of the natural systems of comparative anatomy and phylogenetics, Chapter 2: The concept of homology and the criteria for homology. 2019, Available upon request.

Oberski, J.T., S.L. Boyer, K.A. Lemon, J.R. Johnson, K.R. Jay, M.J. Coblens, and P.P. Sharma. A dated molecular phylogeny of mite harvestmen (Arachnida, Opiliones, Cyphophthalmi) from Queensland, Australia. 2018, **Molecular Phylogenetics and Evolution** 127: 813-822. <https://doi.org/10.1016/j.ympev.2018.06.029>

Sharma, P.P., C.M. Baker, J.G. Cosgrove, J.E. Johnson, **J.T. Oberski**, R.J. Raven, M.S. Harvey, & S.L. Boyer. A revised dated phylogeny of scorpions: Phylogenomic support for ancient divergence of the temperate Gondwanan family Bothriuridae. 2018, *Molecular Phylogenetics and Evolution* 122: 37-45. <https://doi.org/10.1016/j.ympev.2018.01.003>

Sharma, P.P., **J.T. Oberski**, M.A. Santiago, R. Kriebel, S.M. Lipps, P.A.C. Buenavente, A.C. Diesmos, M. Janda, S.L. Boyer, R.M. Clouse, and W.C. Wheeler. There is no evidence that Podoctidae carry eggs of their own species: Reply to Machado and Wolff. 2017, *Molecular Phylogenetics and Evolution* 129: 349-353. <https://doi.org/10.1016/j.ympev.2017.03.026>

Jay, K.R., Z.R. Popkin-Hall, M.J. Coblens, **J.T. Oberski**, P.P. Sharma, and S.L. Boyer. New species of *Austropurcellia*, cryptic short-range endemic mite harvestmen (Arachnida, Opiliones, Cyphophthalmi) from Australia's Wet Tropics biodiversity hotspot. 2016, *ZooKeys* 586: 37-93. <https://doi.org/10.3897/zookeys.586.6774>

FELLOWSHIPS & GRANTS

| | | | |
|-------------------|-----------|--|------------------------|
| 2024 | \$ 2,500 | Ernst Mayr Grant in Insect Taxonomy | Harvard MCZ |
| 2022 | \$ 3,000 | Professors For The Future Fellowship | UC Davis Grad. Studies |
| 2022 | \$ 250 | Graduate Student Assoc. Travel Grant | UC Davis GSA |
| 2019 | \$ 3,000 | George H. Vansell Scholarship | UC Davis Entomology |
| 2019 | \$ 1,250 | Ernst Mayr Grant in Insect Taxonomy | Harvard MCZ |
| 2019 | \$ 250 | Graduate Student Assoc. Travel Grant | UC Davis GSA |
| 2017-20 | \$ 90,000 | Dean's Distinguished Graduate Fellowship | UC Davis Grad. Studies |
| 2012-16 | \$ 60,000 | DeWitt Wallace Merit Scholarship | Macalester College |
| 2013 | \$ 500 | Language Learning Video Contest | Vista Higher Learning |
| \$ 160,750 | | Sum Total 2012–2026 | |

NSF CONTRIBUTING PROJECTS

- AToL: Collaborative Research on Ant Phylogeny: A Comprehensive Evolutionary Tree for the World's Premier Social Organisms (2004). #DEB-0431330. Philip Ward, Brian Fisher, Ted Schultz, Séan Brady
- Collaborative Research: Camponotine Ants and their Little Helpers: Phylogenomics of a Hyperdiverse Insect Clade and its Bacterial Endosymbionts (CAnBE) (2019). #DEB-1856539. Philip Ward, Jennifer Wernegreen, Bonnie Blaimer, Brian Fisher
- Collaborative Research: Ants of the World (2019). #DEB-1932062. Philip Ward, Bonnie Blaimer, Brian Fisher, John Longino, Michael Branstetter

MAJOR FIELD WORK

| | | |
|---------------|--|---------|
| May–June 2025 | USA: Texas, Oklahoma, Kansas | 4 weeks |
| August 2021 | USA: Utah and Nevada: Swasey Peak, Crystal Peak, Pine Valley | 2 weeks |
| February 2020 | Brazil: São Paulo, SP and Curitiba, PR | 2 weeks |
| July 2019 | USA: Nevada and California: White Mts, Esmeralda County | 2 weeks |
| July 2018 | USA: California and Nevada, broadly (Sagehen Field Station) | 5 weeks |

August 2018

French Guiana: Nouragues Field Station, Inselberg Camp

2 weeks

HONORS & CERTIFICATES

2024 Presentation Award for Women Scientists

2024 Presentation Award for Young Scientists

2023 Nominated: John Henry Comstock Award

2023 National Champion, Entomology Games

2022 Nominated: John Henry Comstock Award

2022 Branch Champion, Entomology Games

2020 President's Prize, First Place: Infographic

2019 President's Prize, Second Place: Seminar

2019 President's Prize, Second Place: Infographic

2019 GRFP (Graduate Research Fellowship): Hon. Mention

2018 National Champion, Entomology Games

2018 Graduate of the 17th Ant Course

2016 Induction into Delta Phi Alpha

2016 Virginia McKnight Binger Prize for Excellence

2014 German Fluency Goethe-Zertifikat C1

Intl. Congress of Entomol., Kyoto

Intl. Congress of Entomol., Kyoto

Pacific Branch Ent. Soc. Amer.

Entomological Society of America

Pacific Branch Ent. Soc. Amer.

Pacific Branch Ent. Soc. Amer.

Entomological Society of America

Entomological Society of America

Entomological Society of America

Natl. Science Foundation (NSF)

Entomological Society of America

California Academy of Sciences

National German Honor Society

Macalester Coll. German Studies

Goethe Institut Berlin

GUEST AND INVITED SEMINARS

2025 Workshop: Diverg-ENT: Neurodiversity in Entomology

2025 Systematics and Biogeography of *Dorymyrmex* ants

2024 The Charismatic "Pyramid Ants" and Their Impact

2024 Neotropical *Dorymyrmex*: Evol. & Taxonomy

2023 Insights from *Dorymyrmex* Phylogenomics

2023 Professors for the Future – Host of 3 panels on mental illness

2022 BIOL 476: Research in Biodiversity and Evolution

2020 Symposium: Global Advances in Ant Phylogenomics

2020 Systematics and Biogeography of *Dorymyrmex* ants

2018–23 ENT 010: Nat. Hist. of Insects – 2 lectures annually

2018 Q&A Panelist: Mental Illness and Disability

2016 BIOL 476: Research in Biodiversity & Evolution

Entomology 2025 Conf.

British Museum of Natural History

Hope College

Grupo de Estudio de Hormigas Neotropicales

Entomol. Society of Washington

UC Davis Graduate Studies

Macalester College Biology

Entomology 2020 Conf.

Universidade Federal do Paraná

UC Davis Ento. & Nem.

UC Davis Mental Health Conference

Macalester College Biology

SERVICE & PROFESSIONAL DEVELOPMENT

2025 Leibniz Leadership Academy online programme: Starting Leadership

2025 Workshop on Population and Speciation Genomics, Český Krumlov, Czech Republic

2024 – 2025 Mentor, Entomological Society of America "EntoMentos"

2024 German Studies Alumni Panel, Macalester College

2021 – 2023 Graduate Student Advisor, UC Davis Transfer Research Society

2022 – 2023 Dept. Committee on Faculty Mentorship, UCD Ento. & Nem.

2022 Faculty Hiring Committee, Agricultural Nematologist, UCD Ento. & Nem.

2020 – 2022 President, UC Davis Entomology Graduate Student Association

Liaison to faculty and hiring committees; coordinating events incl. Picnic Day

2021 Mentor, Ecology and Evolutionary Biology (EEB) Mentor Match

2019 – 2020 Graduate Admissions Committee, UCD Ento. & Nem.
2018 – 2020 Treasurer, UCD Entomology Graduate Student Association
2018 – 2019 Dept. Retreat Committee, UCD Ento. & Nem.
2018 California Academy of Sciences Ant Course, French Guiana

OUTREACH, EQUITY, & #SciComm

2024 – 2025 Girls' Day, Senckenberg Natural History Museum

2024 Skype A Scientist: 3 presentations to a variety of audiences

2018 – 2023 Picnic Day, UC Davis

Campus-wide annual event drawing thousands of people to our exhibits.

In 2021 (virtual), created ["Ants of Davis" YouTube video](#).

2017 – 2023 Developed and maintained a "survival guide" for new Entomology graduate students in Davis

2020 – 2022 Dept. Committee on Diversity, Equity, Inclusion, and Belonging, UCD Ento. & Nem.

2020 – 2022 Graduate Committee on Diversity, Equity, and Inclusion, UCD Ento. Graduate Group

2017 – 2022 Girls' Outdoor Adventure in Leadership and Science (GOALS) @ UC Davis

yearly, immersive, FREE summer science backpacking trip for diverse high school girls and non-binary youth. Personally developed the public website and design.

2021 Program Leader, GOALS @ UC Davis

citizen science projects, birds and pollinators, data analysis, outdoor experiences and privileges to access, indigenous history, college apps and financial aid

2021 UC Davis Envision program

meeting with first-generation / underrepresented minority prospective students

2021 Podcast guest: "Ant-Man" subject expert on "The Marvels of Science"

2020 – 2021 Skype A Scientist: 10 presentations to a wide variety of audiences

2019 California Honey Festival

CONFERENCE PRESENTATIONS

* Prize recognition

2025 **Seminar:** "Notes from the field: Ant-ing through the central U.S. plains states." International Society of Hymenopterists, Hymathon 24-Hour Virtual Conference.

2025 **Seminar:** "Puzzling taxonomy, ongoing speciation, and social parasitism: The case of the Nearctic pyramid ants (Formicidae: *Dorymyrmex*)." Entomological Society of America International Branch, Virtual Conference.

2024 **Seminar:** "Puzzling taxonomy, ongoing speciation, and social parasitism: The case of the Nearctic pyramid ants (Formicidae: *Dorymyrmex*)." International Society of Hymenopterists, Hymathon 24-Hour Virtual Conference.

*2024 **Seminar:** "Neotropical paleoclimate, Andean orogeny, and the Isthmus of Panama: UCEs illuminate the evolution of the 'pyramid ants' (Formicidae: *Dorymyrmex*)." International Congress of Entomology, Kyoto, Japan.

2024 **Seminar:** "Puzzling taxonomy, ongoing speciation, and social parasitism: The case of the Nearctic pyramid ants (Formicidae: *Dorymyrmex*)." International Union for the Study of Social Insects – Central European Section, Lausanne, Switzerland.

2023 **Seminar:** "Intercontinental range expansion in the arid-adapted pyramid ants (Formicidae: *Dorymyrmex*)." Entomology, National Harbor, MD, USA.

2023 **Seminar:** "*Dorymyrmex* evolution and taxonomy: UCE phylogenomics illuminates a persistent puzzle." XXVI Simpósio de Mirmecologia: An international ant meeting, Manaus, Amazonas, Brazil.

- 2022 **Seminar:** "Historical biogeography of the pyramid ants (Formicidae: *Dorymyrmex*)." International Union for the Study of Social Insects, San Diego, CA, USA.
- 2022 **Seminar:** "Intercontinental range expansion in the arid-adapted pyramid ants (Formicidae: *Dorymyrmex*)." Entomology, Vancouver, BC, Canada.
- 2022 **Seminar:** "UCE phylogenomics clarifies classical taxonomy in the pyramid ants, genus *Dorymyrmex* (Hymenoptera: Formicidae)." Pacific Branch Ent. Soc. Amer., Santa Rosa, CA.
- 2021 **Seminar:** "Arid-adapted pyramid ants (Formicidae: *Dorymyrmex*) show an amphitropical distribution and an ongoing radiation." Entomology, Denver, CO.
- *2020 **Infographic Poster:** "Why do Museum Collections Matter?" Entomology (virtual).
- *2019 **Seminar:** "Unraveling the Phylogeny and Biogeography of *Dorymyrmex*, a New World Amphitropical Disjunct." Entomology, St. Louis, MO.
- *2019 **Infographic Poster:** "Discovery and Diversity: The Importance of Systematic Entomology in Today's World." Entomology, St. Louis, MO.
- 2017 **Seminar:** "India as a 'Biotic Ferry': Systematics and Biogeography of the Harvestman Family Assamiidae." Oberski, J.T., P.P. Sharma, and S.L. Boyer. Society for Integrative and Comparative Biology, New Orleans, LA.
- 2016 **Group Poster:** "A dated molecular phylogeny for *Austropurcellia*, short-range endemic mite harvestmen (Cyphophthalmi, Pettalidae) from the Australian Wet Tropics." Int'l Congress on Arachnology, Golden, CO.
- 2016 **Group Poster:** "Systematics and Biogeography of Mite Harvestmen from Australia's Wet Tropics." Society for Integrative and Comparative Biology, Portland, OR.

SCIENTIFIC SOCIETIES

Entomological Society of America (ESA)
 International Branch (IB)
 Systematics & Evolutionary Biology (SysEB)
 International Union for the Study of Social Insects (IUSSI)
 North American Section (NAS)
 Central European Section (CES)
 International Society of Hymenopterists (ISH)
 Entomological Collections Network (ECN)
 American Association of University Women (AAUW)
 American Association for the Advancement of Science (AAAS)

PEER REVIEWS

| | | | |
|---|---|---------------|---|
| Arthropod Systematics and Phylogeny | 2 | ZooKeys | 1 |
| Biological Journal of the Linnean Society | 1 | ZooTaxa | 2 |
| Ecology and Evolution | 1 | | |
| European Journal of Taxonomy | 1 | | |
| Insect Systematics and Diversity | 4 | | |
| Journal of Biogeography | 1 | | |
| Myrmecological News | 1 | | |
| PeerJ | 1 | | |
| Proceedings of the Royal Society B | 1 | | |
| Systematic Biology | 1 | | |
| Zoological Research | 1 | | |