

Curriculum Vitae
GARETH S. POWELL, PhD

NC State University Insect Museum, Department of Entomology and Plant Pathology,
North Carolina State University, Raleigh, NC, USA
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EDUCATION

Ph.D. Biology, 2021

Department of Biology, Brigham Young University

Dissertation: *Phylogeny and visual system evolution in Sap Beetles (Coleoptera: Cucujoidea: Nitidulidae)*

M.Sc. Entomology, 2017

Department of Entomology, Purdue University

Thesis: *Global phylogenetic framework and revised classification for the Carpophilinae (Coleoptera: Cucujoidea: Nitidulidae)*

B.Sc. Entomology, 2012

Department of Entomology, Purdue University

Thesis: *Comparison of Saproxylic Coleoptera in forest fragments*

PROFESSIONAL APPOINTMENTS

2023 – present	Assistant Professor of Insect Biodiversity Department of Entomology and Plant Pathology, College of Agriculture and Life Sciences, North Carolina State University
2023 – present	Director , North Carolina State University Insect Museum Department of Entomology and Plant Pathology, College of Agriculture and Life Sciences, North Carolina State University
2022 – 2023	Research Curator, Coleoptera & Odonata Entomology Section, Division of Plant Industry, FDACS
2021 – 2022	Postdoctoral Research Fellow Department of Biology, Brigham Young University
2019 – 2021	Lab Manager , Department of Biology, Brigham Young University
2013 – 2015	Curatorial Assistant , Purdue Entomological Research Collection
2012 – 2013	Laboratory Technician , Insect Ecology Lab, Purdue
2010 – 2013	Insect Identifier , Purdue Entomology Extension

PROFESSIONAL AFFILIATIONS

2024 – present	Affiliate Faculty , Global One Health Academy, NCSU
2024 – present	Affiliate Faculty , Genetics and Genomics Academy, NCSU
2026 – present	Affiliate Faculty , Genetic Engineering and Society Center, NCSU
2017 – present	Research Associate , Purdue Entomological Research Collection (PERC)
2014 – present	Research Associate , Florida State Collection of Arthropods (FSCA)
2019 – 2022	Collections Associate , Field Museum of Natural History (FMNH)

PUBLICATIONS

*Student mentee coauthors are marked with an asterisk ^Articles featured in media coverage

62. Cagney O'Hara,* Seth M. Bybee, **Gareth S. Powell**, Gavin J. Martin. (*in press*). Phylogenetic placement of *Paraphausis* Green, 1949. *The Coleopterists Bulletin*.
61. Kyle E. Schnepf, **Gareth S. Powell**, Natalie A. Saxton, Nicole L. Gunter, Matt R. Moore, Paul E. Skelley, Ron D. Cave. 2026. Phylogeography of *Geopsammophilus* Gordon and Pittino 1992 (Coleoptera: Scarabaeidae): a radiation of endemic psammophilic beetles. *PloSOne*, 21(8) 1–16.
60. José L. Navarrete-Heredia, Emmanuel Arriga-Verala, ...**Gareth S. Powell**, ..., Richard A.B. Leschen (48 total authors). 2026. Coleoptera of Mexico: a summary of families and account of the number of recorded species. *Zootaxa*, 5858(1) 1–111.
59. Kenneth A. Geisert*, **Gareth S. Powell**, Lorena Lopez. 2026. *Prionus imbricornis* (Coleoptera: Cerambycidae), an Emerging Pest in North Carolina Blueberries. *Journal of Integrated Pest Management*, 17(1) 1–9.
58. Alexis L. Beaurepaire, Lars Straub, Sanchai Naree, Jakkrawut Maitip, Steven Cook, Yanping Chen, Peter Neumann, **Gareth S. Powell**, James D. Ellis, Jay D. Evans, Guntima Suwannapong. 2026. Small hive beetles (*Aethina tumida*) infesting honeybee (*Apis* spp.) colonies in Thailand. *Journal of Apicultural Research*, 1–4.
57. **Gareth S. Powell**, Kenneth A. Geisert. 2026. World catalog of Prostomidae Thomson, 1859 (Coleoptera: Tenebrionoidea). *Pan-Pacific Entomologist*, 102(1) 15–25.
56. Ezra Bailey*, Verner Michelsen, Brian K. Cassel, Krzysztof Szpila, Keith M. Bayless, Andrzej Grzywacz, **Gareth S. Powell**, Thomas Pape, Brian M. Wiegmann. 2026. Phylogenomics of Anthomyiidae and a Revised Classification of Scathophagidae (Diptera: Calyptratae). *Systematic Entomology*, 51(1) 1–13.
55. Natalie A. Saxton*, Kyle E. Schnepf, **Gareth S. Powell**. 2026. Annotated catalogue of fossil Meloidae (Insecta: Coleoptera: Tenebrionoidea). *Insecta Mundi*, 1171, 1–15.
54. Ashlee N. Smith, Derek S. Sikes, J. Curtis Creighton, Seth M. Bybee, Perry L. Wood, Jr., **Gareth S. Powell**, Mark C. Belk. 2026. Body size evolution in burying beetles (Staphylinidae: Silphinae: *Nicrophorus*). *Ecology and Evolution*, 16(3) 1–19.
53. Eileen A. Buss, Paul E. Skelley, Jade Allen, Sam Bolton, Lily Deeter, James C. Fulton, Deborah Greer, Susan E. Halbert, James Hayden, Matthew R. Moore, Catherine E. Nance, Erin Powell, **Gareth S. Powell**, Erick J. Rodriguez, Emily Roeder, Kyle E. Schnepf, Felipe N. Soto-Adames, Gary J. Steck, Elijah Talamas, Trevor Smith. 2025. A preliminary look at non-native arthropods identified and possibly established in Florida, 1990–2023, as recognized by the Florida Department of Agriculture and Consumer Services – Division of Plant Industry. *The Florida Entomologist*, 108(1) 20240027.
52. John M. Leavengood, Jr., Zunilda Escalante Arteaga, **Gareth S. Powell**, Seth M. Bybee, Hajarat, A. Afolabi, Geoffrey R. Gallice. 2025. Contributions to the entomofaunal inventory of Finca las Piedras (Madre de Dios, Peru): Cleridae (Coleoptera). *The Proceedings of the Entomological Society of Washington*, 127(1) 48–63.
51. Natalie A. Saxton*, **Gareth S. Powell**, Bindhya Rashni, Colin R. Jensen*, Christopher D. Beatty, Dan Polhemus, Milen Marinov, Seth M. Bybee. 2025. Rediscovery of *Melanesobasis* Donnelly, 1984 (Odonata: Coenagrionidae) in Vanuatu reveals a pattern of vicariance in insular damselflies. *Zoological Journal of the Linnean Society*, 204 (3) 1–15.
50. Rachel J. Sutherland*, Eva Jasinski Driggs*, Laura N. Sutherland*, Paul E. Skelley, Seth M. Bybee, **Gareth S. Powell**. 2025. Diversity of color in pleasing fungus beetles (Coleoptera: Erotylidae: Erotylinae). *Diversity*, 17(6) 394 1–15.
49. Cordon D. Wade*, Laura N. Sutherland*, Pungki Lupiyaningdyah*, Sam P. Bennett*, Thai-Hong Pham, **Gareth S. Powell**, Seth M. Bybee. 2025. High throughput sequence data for association and description of female *Calicnemia haksik* (Odonata: Platycnemididae). *Insect Systematics and Diversity*, 9(3): 1–6.
48. Ladislav Bocak, Seth M. Bybee, Michal Motyka, Dominik Kusy, **Gareth S. Powell**, Elizabeth T. Arias, Sergey V. Kazantsev, Shuhei Yamamoto. 2025. Taxonomy in the digital era: ZooBank registration allows the recording of unavailable taxonomic works. *Insect Systematics and Diversity*, 9(2): 1–3.

47. Jhikmik Dasgupta, Tarun K. Pal, **Gareth S. Powell**. 2025. New species of *Carpophilus* Stephens from Tirap District of Arunachal Pradesh, India (Coleoptera: Nitidulidae: Carpophilinae). *The Coleopterists Bulletin*, 79(1): 1–6.
46. Jéssica Herzog Viana, André Silva Roza, Stephanie Vaz, **Gareth S. Powell**, Luiz Felipe Lima da Silveira. 2025. A new firefly genus from South America, with seven new species, a new combination, and notes on the phylogeny of Lampyrinae: Lucidotini (Coleoptera: Lampyridae). *PeerJ*, 13(e18967): 1–34.
45. Lily M. Gregson* and **Gareth S. Powell**. 2024. A new species of *Atarphia* (Coleoptera: Nitidulidae) from Laos. *Zootaxa*, 5541(1): 84–88.
44. Edilson Caron, Marcela L. Monne, Vinicius S. Ferreira...**Gareth S. Powell**, ..., Wioletta Tomaszewska (102 total authors). 2024. Coleoptera of Brazil: what we knew then and what we know now. Insights from the Catálogo Taxonômico da Fauna do Brasil. *Zoologia*, 41(e23072): 1–10.
43. Walter A. Boeger, Michel P. Valim, Hussam Zaher, ...**Gareth S. Powell**, ..., (596 total authors). 2024. Catálogo Taxonômico da Fauna do Brasil: setting the baseline knowledge on the animal diversity in Brazil. *Zoologia*, 41(e24005): 1–13.
42. **Gareth S. Powell**, Natalie A. Saxton*, Alexandra G. Duffy, Stephen L. Cameron, Andrew R. Cline, Thomas C. McElrath, Matthew L. Gimmel, Jerald B. Johnson, Richard A.B. Leschen, Paul E. Skelley, Seth M. Bybee, Nicole L. Gunter. 2024. Repeated feeding guild evolution: the impact of competition on diversification. *Evolutionary Journal of the Linnean Society*, 3(1): 1–10.
41. Naoya Ito and **Gareth S. Powell**. 2023. A New Species of *Urophorus* (*Anophorus*) Kirejtshuk, 1990 (Coleoptera: Nitidulidae) from Ishigaki-jima Island, southern Ryukyu, Southwestern Japan. *The Coleopterists Bulletin*, 77(3): 462–468.
40. Natalie A. Saxton*, **Gareth S. Powell**, Seth M. Bybee. 2023. A story of vicariance? How the geology of oceanic archipelagos influenced the evolutionary history of endemic damselflies. *Molecular Phylogenetics and Evolution*, 186(107831): 1–10.
39. Thabu Mugala, Kirsten Brichler, Bobby Clark, **Gareth S. Powell**, Sally Taylor, Michael S. Crossley. 2023. Ground beetles suppress slugs in corn and soybean under conservation agriculture. *Environmental Entomology*, 52(4): 574–582.
38. **Gareth S. Powell** and Lauren M. Weidner. 2023. Forensically important Sap beetles (Coleoptera: Nitidulidae) of North America. *Journal of Forensic Entomology*, 3(1): 1–13.
37. **Gareth S. Powell** and Seth M. Bybee. 2023. Investment in visual system predicted by floral associations in sap beetles (Coleoptera: Nitidulidae). *Systematic Entomology*, 48(1): 1–9.
36. ^**Gareth S. Powell**, Natalie A. Saxton*, Yelena M. Pacheco*, Kathrin F. Stanger-Hall, Gavin J. Martin, Dominik Kusy, Luiz F.L. da Silveira, Ladislav Bocak, Marc A. Branham, Seth M. Bybee. 2022. Beetle bioluminescence outshines aerial predators. *Proceedings of the Royal Society B*, 289(1979): 20220821 1–9.
35. Kyle E. Schnepf, R. Michael Brattain, and **Gareth S. Powell**. 2021. Survey of the beetles (Insecta: Coleoptera) in several natural areas across Indiana, U.S.A. *The Great Lakes Entomologist*, 54(3–4): 143–187.
34. Laura N. Sutherland*, Kyle E. Schnepf, **Gareth S. Powell**, Seth M. Bybee. 2021. Phylogenetic placement of the Plesioclytini (Coleoptera: Cerambycidae: Cerambycinae). *Diversity*, 13(597): 1–8. (Diversity and Evolution of Coleoptera special collection).
33. Jhimik Dasgupta, Tarun Kumar Pal, **Gareth S. Powell**. 2021. Taxonomy of Carpophilinae (Coleoptera: Nitidulidae) from Tripura, India with a new species. *Annales Zoologici*, 71(3): 627–649.
32. Laura N. Sutherland*, **Gareth S. Powell**, Seth M. Bybee. 2021. Validating species distribution models to illuminate coastal fireflies in the South Pacific (Coleoptera: Lampyridae). *Scientific Reports*, 11(7397): 1–12.
31. Natalie A. Saxton*, Erica M. Paxman*, Abigail M. Dean*, Colin R. Jensen*, **Gareth S. Powell**, Seth M. Bybee. 2021. Factors influencing the Distribution of Endemic Damselflies in Vanuatu. *Insects*, 12(670): 1–11. (Ecology and Biology of Aquatic Insects special collection).
30. Camilla R. Sharkey, **Gareth S. Powell**, Seth M. Bybee. 2021. Opsin evolution in flower-visiting beetles. *Frontiers in Ecology and Evolution*, 9(676369) 1–9.
29. Lauren M. Weidner and **Gareth S. Powell**. 2021. Key to the forensically important beetle (Insecta: Coleoptera) families of North America. *The Journal of Forensic Science Education*, 3(1): 1–13.

28. Courtney L. DiLorenzo*, **Gareth S. Powell**, Andrew R. Cline, Joseph V. McHugh. 2021. Carpophiline-ID: An interactive matrix-based key to the carpophiline sap beetles (Coleoptera, Nitidulidae) of Eastern North America. *Zookeys*, 1028: 85–93.
27. **Gareth S. Powell** and Andrew R. Cline. 2021. The first Cillaeinae (Coleoptera: Nitidulidae: Cillaeinae) described from amber. *Annals Zoologici*, 71(1): 21–26.
26. **Gareth S. Powell** and Paul E. Skelley. 2021. Revision of *Myceporthus* Skelley and Powell, 2018 (Coleoptera: Erotylidae: Erotylinae: Tritomini). *Insect Systematics and Evolution*, 52(2021): 501–523.
25. **Gareth S. Powell** and Kyle E. Schnepf. 2020. Review of *Carpophilus* (*Ecnomorphus*) Motschulsky, 1858 (Coleoptera: Nitidulidae: Carpophilinae) in the West Indies. *Insecta Mundi*, 0840: 1–8. (Michael C. Thomas Festschrift Special Issue).
24. Natalie A. Saxton*, **Gareth S. Powell**, Seth M. Bybee. 2020. Prevalence of leg regeneration in damselflies reevaluated: A case study in Coenagrionidae. *Arthropod Structure and Development*, 59(100995): 1–6.
23. Gavin J. Martin and **Gareth S. Powell**. 2020. Type designations for fireflies (Coleoptera: Lampyridae) of the Biologia Centrali Americana Gorham, 1881 housed in the Natural History Museum, London. *Zootaxa*, 4808(2): 384–392.
22. **Gareth S. Powell**, Andrew R. Cline, Alexandra G. Duffy, Jennifer M. Zaspel. 2020. Phylogeny and reclassification of Carpophilinae (Coleoptera: Nitidulidae), with insights into the origins of anthophily. *Zoological Journal of the Linnean Society*, 189(4): 1359–1369.
21. **Gareth S. Powell**. 2020. Four new species of *Carpophilus* (*Ecnomorphus*) Motschulsky (Coleoptera: Nitidulidae: Carpophilinae) from the New World. *The Coleopterists Bulletin*, 74(1): 175–180.
20. Rachael A. Hadden*, Natalie A. Saxton*, Peter S. Gerlach*, Parker L. Nielson*, Sam D. J. Brown, Seth M. Bybee, **Gareth S. Powell**. 2020. Nitidulidae (Coleoptera: Cucujoidea) of Vanuatu. *Journal of Asia-Pacific Entomology*, 23: 470–476.
19. Natalie A. Saxton*, **Gareth S. Powell**, Gavin J. Martin, Seth M. Bybee. 2020. Two new species of coastal *Atyphella* Olliff (Lampyridae: Luciolinae). *Zootaxa*, 4722(3): 270–276.
18. Natalie A. Saxton*, **Gareth S. Powell**, Stephen J. Serrano*, Anna K. Monson*, Seth M. Bybee. 2019. Natural history and ecological niche modelling of coastal *Atyphella* Olliff Larvae (Lampyridae: Luciolinae) in Vanuatu. *Journal of Natural History*, 53(45–46): 2271–2280.
17. **Gareth S. Powell** and Maiya L. Hamilton*. 2019. Notes on the *Carpophilus* Stephens (Coleoptera: Nitidulidae) of Australia, with a new species from Victoria. *Zootaxa*, 4701(2): 192–196.
16. Andrew R. Thompson, **Gareth S. Powell**, Byron J. Adams. 2019. Provisional checklist of terrestrial heterotrophic protists from Antarctica. *Antarctic Science*, 31(6): 287–303.
15. Kyle E. Schnepf, Thomas C. McElrath, **Gareth S. Powell**. 2019. The beetle fauna associated with the peduncle of *Sabal mexicana* (Arecaceae) in southern Texas. *Journal of Natural History*, 53(36): 2183–2193.
14. **Gareth S. Powell** and Gavin J. Martin. 2019. Type designations for sap beetles in the subfamily Carpophilinae Erichson (Coleoptera: Nitidulidae) housed in the Natural History Museum, London. *Zootaxa*, 4590(2): 297–300.
13. Jiichiro Yoshimoto, **Gareth S. Powell**, Andrew R. Cline. 2018. Flower-inhabiting Sap Beetles (Coleoptera: Nitidulidae: Carpophilinae) in Guatemala. *The Coleopterists Bulletin*, 72(4): 762–767.
12. Paul E. Skelley and **Gareth S. Powell**. 2018. Necessary nomenclatural emendations for *Mycophorus* Lacordaire, 1842, and *Neomycotretus* Deelder, 1942, with the establishment of *Myceporthus* Skelley and Powell, n. gen. (Coleoptera: Erotylidae: Tritomini). *The Coleopterists Bulletin*, 72(2): 305–313.
11. Kyle E. Schnepf and **Gareth S. Powell**. 2018. A new species of *Sandalus* Knoch (Coleoptera: Rhipiceridae) with an updated key to the species of the Eastern United States. *The Coleopterists Bulletin*, 72(2): 241–245.
10. ^Alexandra G. Duffy, **Gareth S. Powell**, Jennifer M. Zaspel, Douglas S. Richmond. 2018. Billbug (Coleoptera: Dryophoridae: *Sphenophorus*) species composition, seasonal biology, and DNA-based life stage association in Indiana Turfgrass. *Journal of Economic Entomology*, 111(1): 304–313.
9. Eugenio H. Nearn and **Gareth S. Powell**. 2017. Onciderini Thomson, 1860 (Coleoptera: Cerambycidae: Lamiinae) types of the Museum of Comparative Zoology (MCZ), with a brief history of the Coleoptera collection. *Insecta Mundi*, 0562: 1–9.

8. **Gareth S. Powell** and Alexandra G. Duffy. 2017. New species of *Ctilodes* Murray (Coleoptera: Nitidulidae) from Southeast Asia, with a key to members of the genus. *Insecta Mundi*, 0554: 1–6.
7. **Gareth S. Powell** and Andrew R. Cline. 2017. Type designations and taxonomic remarks for Nearctic sap beetles in the subfamily Carpophilinae Erichson (Coleoptera: Nitidulidae). *Zootaxa*, 4268(2): 293–295.
6. **Gareth S. Powell**, R. Michael Brattain, Jennifer M. Zaspel. 2017. The Beetles (Insecta: Coleoptera) Associated with the Plains Pocket Gopher, *Geomys bursarius*, Shaw (Mammalia: Rodentia: Geomyidae) in Indiana. *Annals of the Entomology Society of America*, 110(3): 269–275.
5. Julia L. Snyder*, **Gareth S. Powell**, Robert S. Behring*, Adam M. Alford, Megan E. McCarty*, Jennifer M. Zaspel. 2016. Distribution, phenology, and notes on the life history of *Calyptra canadensis* (Bethune) (Erebidae: Calpinae). *Journal of the Lepidopterists' Society*, 70(4): 253–258.
4. **Gareth S. Powell**, John T. Shukle, Douglas S. Richmond, Jeffrey D. Holland. 2016. Saproxylic Beetle Biodiversity in Golf Course Habitats. *Crop, Forage, and Turfgrass Management*, 2(1): 1–8.
3. **Gareth S. Powell**, R. Michael Brattain, Jeffrey D. Holland. 2015. Additional North American Distribution Records for the Genus *Pytho* Latreille (Coleoptera: Tenebrionoidea: Pythidae). *The Coleopterists Bulletin*, 69(4): 761–765.
2. Andrew R. Cline, **Gareth S. Powell**, Paulo R. Audisio. 2015. Beetles (Coleoptera) of Peru: A Survey of the Families. Nitidulidae Latreille, 1807. *Journal of the Kansas Entomological Society*, 88(2): 217–220.
1. **Gareth S. Powell**. 2015. A Checklist of the Sap Beetle (Coleoptera: Nitidulidae) Fauna of Indiana, with Notes on Effective Sap Beetle Trapping. *Insecta Mundi*, 0424: 1–9.

Book Chapters

5. Duane McKenna and **Gareth S. Powell**. (accepted) Phylogeny of Coleoptera. *Beetles of Canada and the United States of America, Volume I*.
4. **Gareth S. Powell**. (accepted) Kateretidae, *Beetles of Canada and the United States of America, Volume II Polyphaga*
3. **Gareth S. Powell**. (accepted) Nitidulidae, *Beetles of Canada and the United States of America, Volume II*
2. **Gareth S. Powell** and Kyle E. Schnepf. (accepted) Nosodendridae. *Beetles of Canada and the United States of America, Volume II*
1. Jiichiro Yoshimoto, **Gareth S. Powell**, Andrew R. Cline. (2023). Diversity and ecology of flower-associated sap beetles (Coleoptera: Nitidulidae) in Guatemalan dry forests. *Biodiversity of Guatemala Vol. III*. ed: Jack C. Schuster, Jiichiro Yoshimoto & José Monzón Sierra. pp 64–75.

GRANTS AND FUNDING (Total Awarded: \$3,323,094; to GSP's Institution: \$750,438)

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| 2026 | NC Strawberry Association's Research and Extension project program. Exploring interactions between Sap Beetles and <i>Neopestalotiopsis</i> in Strawberry. (PIs: L. Lopez, M. Bradshaw, G. Powell ; \$2,000) |
| 2026 | Provost's Professional Experience Program. (PI: G. Powell ; \$2,000) |
| 2025 | NC Innovation. The Convergent Threat Risk Assessment System (CTRAS). (PIs: T. Leung, W. Valdivia, G. Powell , A. De Queiroz; \$1,097,158) |
| 2025 | NSF DBI Collaborative Research: Research Infrastructure: DI-ODE: Digital Integration of Odonates. (PIs: J. Abbott, S. Bybee, J. Ware, R. Guralnick, G. Powell , P. Skelley, \$1,967,123) |
| 2025 | NC Strawberry Association's Research and Extension project program. Sap beetles in strawberry fields across North Carolina. (PIs: G. Powell , L. Lopez; \$6,000) |
| 2024 | NC State University CALS Repair and Renovation: Revitalization of the NC State Insect Museum Slide Collection (PI: G. Powell ; \$38,000) |
| 2024 | North Carolina Department of Transportation. Assessing Winter Forage of the Endangered Northern Long-eared Bat, <i>Myotis septentrionalis</i> in Coastal North Carolina. (PIs: M. Reiskind, C. Sorenson, S. Frank, G. Powell , B. Wiegmann, \$390,164) |
| 2023 | United States Department of Agriculture (USDA) Farm Bill: eDNA in Honeybee hives. (PIs: J. Fulton, G. Powell , B. Stanford, J. Marcelino, J. Ellis; \$66,890) |

- 2023 Herbert Holdworth Ross Memorial Fund: *Creating the first phylogeny of the minute clubbed beetles (Monotomidae: Nitiduloidea)* (PIs: T. McElrath and **G. Powell**, \$5,000)
- 2022 Center for Systematic Entomology Peck Beetle Travel Grant. (PI: **G. Powell**, \$400)
- 2021 Species File Small Grant Extension, *Cucujoidea* (PIs: T. McElrath, M. Gimmel, **G. Powell**, \$3,000)
- 2020 Species File Small Grant Extension, *Cucujoidea* (PIs: T. McElrath, M. Gimmel, **G. Powell**, \$2000)
- 2020 Species File Small Grant, *Archostemata, Myxophaga, Dascilloidea, Rhinorhypoidea, Derodontoidea, Lymexyloidea* (PIs: M. Gimmel, A. Johnston, **G. Powell**, K. Schnepf, \$3,500)
- 2019 Species File Small Grant, *Cucujoidea* (PIs: T. McElrath, M. Gimmel, **G. Powell**, \$4,450)
- 2018 Redd Center Award, *Winter Active Coleoptera in the Sevier Desert* (PIs: M. Hansen & **G. Powell**, \$1,200)
- 2018 Society of Systematic Biologists Mini-ARTS grant, *Taxonomic contributions to Sap Beetles* (PI: **G. Powell**, \$1,800)
- 2018 Graduate Student Research Enhancement Award, Coleopterists Society, *Program Award* (PI: **G. Powell**, \$5,000)
- 2018 Roger & Victoria Sant Grant for the Education of a Sustainable Environment, *Adding some Flash to the known Fauna of Vanuatu* (PIs: S. Bybee & **G. Powell**, \$10,000)
- 2017 Mentoring Environment Grant (MEG): *Mentoring students in visual system evolution using sap beetles (Coleoptera: Nitidulidae)* (PIs: S. Bybee & **G. Powell**, \$20,000)
- 2015 Ernst Mayr Travel Grant, Museum of Comparative Zoology, Harvard University: *Revision of Nearctic Carphophilus Stephens (Coleoptera: Nitidulidae)* (PI: **G. Powell**, \$1,080)
- 2015 Center for Systematic Entomology Travel Grant: *Sap beetles (Coleoptera: Nitidulidae) of the Florida State Collection of Arthropods* (PI: **G. Powell**, \$500)
- 2013 Prairie Biotic Research Inc. Small Research Grant: *The Beetles Associated with the Plains Pocket Gopher in the Kankakee Sands* (PIs: **G. Powell** & M. Brattain, \$1,000)

TEACHING EXPERIENCE

North Carolina State University

Instructor, ENT425: General Entomology, Fall 2025 (171 students), Fall 2026 (178 students)

Instructor, ENT604/804: Insect Ecology and Natural History of North Carolina, 2025 (7 students), 2026 (8)

Instructor, ENT502: Insect Diversity, Fall 2024 (9 students), Fall 2025 (14 students), Fall 2026 (13 students)

Instructor, ENT601/801: Seminar: Species Description, Fall 2026 (13 students)

Guest Lecturer, HI795: Special Topics: Useful Pests, Fall 2025

Guest Lecturer, ENT305: Forensic Entomology, Fall 2024, 2025

Guest Lecturer, BIO295: Biodiversity for a Changing World, Spring 2025, 2026

Guest Lecturer, ENT504: Professional Development, Fall 2024, 2026

Brigham Young University

Co-director, Vietnam Tropical Biodiversity, Spring 2022 (12 students)

Teaching Assistant, BIO420: Evolution, Winter 2018, Spring 2019, Fall 2020 (*also Lab Instructor*)

Teaching Assistant/Lab Instructor, BIO441: Entomology, Spring 2018, Fall 2018

Teaching Assistant/Lab Instructor, BIO640: Phylogenetic Systematics, Fall 2019

Teaching Assistant, IAS201R: Vanuatu Study Abroad Preparation, Winter 2018, Winter 2019

Guest Lecturer, BIO441: Entomology (Coleoptera) Fall 2017, Fall 2019, Fall 2021

Guest Lecturer, BIO420: Evolution (Molecular phylogenetics and feeding behavior in beetles) Fall 2018

Purdue University

Teaching Assistant, ENTM506: Advanced Insect Systematics, Fall 2016

Guest Lecturer, ENTM506: Advanced Insect Systematics (Coleoptera) Fall 2015

Short courses/Workshops

Teaching Assistant, Entomology Collections Management Workshop (ECN), Summer 2017

Co-instructor, A Natural History Short Course: Using Entomology to Learn about Biological Collections, Carroll County Public Schools (Grades 3–6), Summer 2017

MENTORSHIP (Resulted in *co-authored publication, ^co-authored presentation, #successful grant)

Graduate Committee Chair

*^#Anna Blight – PhD – North Carolina State University

^#Sarah Jeffers – PhD – North Carolina State University (Co-Chair)

*^Lily Deeter – PhD – North Carolina State University (Co-Chair)

*^#Kenneth Geisert – PhD – North Carolina State University

*^#Kenneth Geisert – MSc – North Carolina State University (conferred, spring 2026)

^Sarah Akulin – MSc – North Carolina State University (Co-Chair) (conferred, spring 2026)

Graduate Committee Member

Taya de Blonk – PhD – North Carolina State University (Chair: Lily Hughes)

*^Laura Sutherland – PhD – Brigham Young University (Chair: Seth Bybee)

Kaylin Lewandowski – PhD – North Carolina State University (Chair: Michael Reiskind)

Michael De Luca – MSc – North Carolina State University (Chair: Terri Billeisen)

Maggie Donovan – MSc – North Carolina State University (Chair: Michael Reiskind) (conferred, spring 2026)

*^Ezra Bailey – PhD – North Carolina State University (Chair: Brian Wiegmann) (conferred, fall 2025)

Escher Cattle – MSc – North Carolina State University (Chair: Brian Wiegmann) (conferred, spring 2025)

North Carolina State University – Undergraduate Students

Lucas Hall, Fall 2026-present

#^Aris Swanick, Summer 2025-2026

Rongyi Jiang (UNC exchange), 2025

Reece Neiderer, Spring 2024

Meara Kane, Spring 2024-Summer 2024

^Esme Chiara, Spring 2024-Fall 2025

Charlotte Dovey, Spring 2024-2025

Bea Cakmak, Spring 2024-Summer 2026

Bella Gutierrez, Fall 2025-Spring 2026

Brigham Young University – Undergraduate Students

Russell Anderson, Spring 2018-Spring 2020

#Ellecyn Brimley, Spring 2020-Fall 2022

^Madison Brown, Spring 2018-Fall 2018

^Talmage Brown, Spring 2018

*^Abigail Dean, Spring 2019-Spring 2020

*Peter Gerlach, Spring 2019-Fall 2019

^Lily Gregson, Summer 2022- Summer 2023

^*Rachael Hadden, Spring 2018- Fall 2019

^*Maiya Hamilton, Spring 2019-Fall 2019

#Morgan Hansen, Spring 2019

*^#Colin Jenson, Spring 2019-Fall 2019

Amelia Johnson, Spring 2018

^*Kyler Johnson, Spring 2018-Summer 2022

#^Abigail Magland, Fall 2021-Fall 2022

^*Anna Monson, Spring 2018- Summer 2023

^Teagan Mulford, Spring 2018- Fall 2018

^*Erica Paxman, Spring 2018- Fall 2019

^*Stephen Serrano, Spring 2018

*^#Laura Sutherland, Spring 2019-Spring 2020

*Rachel Sutherland, Spring 2021-Summer 2023

^*Parker Neilson, Spring 2018- Fall 2018

Brigham Young University – Graduate/Post PhD

^Daniel Ferguson, Spring 2019-Fall 2020

^*#Natalie Saxton, Spring 2018-Spring 2021

K. Viswajyothi, Fall 2019-Fall 2020

^Thai Pham, Ph.D., Fall 2019-Fall 2020

Florida Department of Agriculture – OPS

Mayumi Needham, Fall 2022-Fall 2023

Purdue University – Undergraduate Students

*#Robert Behring, Fall 2016

Taylor Nelson, Fall 2015-Fall 2016

^Julia Snyder, Fall 2013-Fall 2014

SELECTED PRESENTATIONS

Invited Presentations/Lectures

- 2026 **Gareth S. Powell.** Leveraging the NCSU Insect Museum to help support NC agriculture, Annual meeting for Sweetpotato Commission, Goldsboro, NC.
- 2025 **Gareth S. Powell.** The NCSU Insect Museum, Partnering with Local Science Museums on STEM Outreach
- 2025 **Gareth S. Powell.** Coleoptera diversity and the NC State University Insect Museum, Finca Las Piedras Research Station.
- 2025 **Gareth S. Powell.** Beetles through time: unraveling a few threads of evolutionary history, Purdue University, Department of Entomology.
- 2025 **Gareth S. Powell.** Beetles through time: unraveling a few threads of evolutionary history, University of Georgia, Department of Entomology.
- 2024 **Gareth S. Powell.** Coleoptera: Species are important: Forensic Entomology (ENT305), NC State University.
- 2024 **Gareth S. Powell.** Evolutionary History of Beetles: Genetics and Genomics Scholar Recruitment event, NC State University.
- 2024 **Gareth S. Powell.** Modern systematics research in Coleoptera: Biology Research Class, Laramie County Community College.
- 2023 **Gareth S. Powell.** Layers of biodiversity; where morphology, behavior, and genetics meet: presented to the Department of Entomology and Plant Pathology, NC State University.
- 2022 **Gareth S. Powell.** Overview of Current Coleoptera Research: presented to the Vietnamese Academy of Science and Technology (Hue City, Vietnam)
- 2018 **Gareth S. Powell.** Towards a Stable Classification for Carpophilinae (Coleoptera: Nitidulidae), with Revision of *Nitops* Murray: presented to the Coleopterists Society, (Vancouver, BC).
- 2018 **Gareth S. Powell** and Jennifer M. Zaspel. Small beetles in a big world: a framework for Nitidulidae taxonomy and systematics: presented to the Systematics, Evolution, and Biodiversity (SysEB) section, Entomological Society of America (ESA), (Vancouver, BC).
- 2016 **Gareth S. Powell.** Insect Biodiversity at the Purdue Entomology Department: presented to prospective undergraduate students, Purdue University.
- 2013 **Gareth S. Powell,** Kyle Schnepf, Mike Brattain. Coleoptera of the Muscatatuck National Wildlife Refuge: presented at the Southern Indiana Conservation Annual Meeting (Seymour, IN).
- 2013 **Gareth S. Powell.** Insect Trapping Methods: presented to Thomas Say Student Society.
- 2009 **Gareth S. Powell.** Insect Biodiversity and Success: presented to Shelbyville Middle/Senior High School Science Classes (Grades 6-10).

Contributed Presentations

- 2026 Sarah Jeffers, Rafael Guerrero, **Gareth S. Powell.** Lying is the most fun a beetle can have, honest vs. dishonest signaling in Coleoptera: presented at the Center for Systematic Entomology Annual Meeting (Gainesville, FL).
- 2026 Lily A. Deeter, **Gareth S. Powell,** Kyle E. Schnepf. Reorganization of the NCSU slide collection: presented at the Center for Systematic Entomology Annual Meeting (Gainesville, FL).
- 2026 Kenneth Geisert, **Gareth S. Powell.** Revision of the West Indies genus *Nesanoplium* (Cerambycidae: Elaphidiini): presented at the Center for Systematic Entomology Annual Meeting (Gainesville, FL).

- 2025 Anna Blight Parker, Alexandra G. Duffy, **Gareth S. Powell**. Spectral variation and predator avoidance behavior of North American *Deilelater* with notes on natural history: presented at the Entomology Society of America Annual Meeting (Portland, OR).
- 2025 Syllas M. Akulin, **Gareth S. Powell**, Brian M. Wiegmann. Using species distribution modelling to illuminate niche variation in lesser-known crane fly species of the Nearctic: presented at the Entomology Society of America Annual Meeting (Portland, OR).
- 2025 Kenneth A. Geisert, **Gareth S. Powell**. Revision of the West Indies genus, *Nesanolium* (Cerambycidae: Elaphidiini), with new species and an illustrated key: presented at the Entomology Society of America Annual Meeting (Portland, OR).
- 2025 Yelena Pacheco, **Gareth S. Powell**, Gavin Martin, Ella Fishman, Vinicius Ferreira, Michael Ivie, Oliver Keller, Marc Branham, Seth Bybee, Luiz Felipe Lima Da Silveira, Joseph McHugh, Kathrin Stanger-Hall. An updated worldwide phylogeny of Lampyridae: New insights and next steps: presented at the International Firefly Symposium (Mexico City, MX).
- 2024 Thomas E. McElrath, Gavin J. Martin, **Gareth S. Powell**. Monumental progress in the systematics of the minute clubbed beetles: the first large-scale molecular phylogeny of the Monotomidae (Coleoptera: Nitiduloidea): presented at the Entomology Society of America Annual Meeting (Phoenix, AZ).
- 2023 **Gareth S. Powell**, Matthew Gimmel, Gavin J. Martin, Seth M. Bybee. Targeted enrichment shines light on shining flower beetle (Phalacridae: Coleoptera) phylogeny: presented at the Entomology Society of America Annual Meeting (National Harbor, MD).
- 2023 Abigail E. Magland, Paul E. Skelley, Gavin J. Martin, Seth M. Bybee, **Gareth S. Powell**. All eyes on Pharaonothinae: presented at the Entomology Society of America Meeting (National Harbor, MD).
- 2023 Anna M. Blight, **Gareth S. Powell**, Laura Sutherland, Seth M. Bybee. The tree is on FIRE: Evolution of Pyrophorini (Elateridae): presented at the Entomology Society of America Annual Meeting (National Harbor, MD).
- 2023 Yelena Pacheco, **Gareth S. Powell**, Luiz Silveira, Gavin J. Martin, Vinicius S. Ferreira, Michael Ivie, Oliver Keller, Seth M. Bybee, Marc Branham, Kathrin Stanger-Hall. Worldwide firefly phylogeny (Coleoptera: Lampyridae): Evolution of sexual signaling structures: presented at the Entomology Society of America Annual Meeting (National Harbor, MD).
- 2022 **Gareth S. Powell**, Paul B. Frandsen, Seth M. Bybee. Opsin evolution is revealed by anchored hybrid enrichment phylogeny in cucujoid beetles. presented at the Entomology Society of America Annual Meeting (Vancouver, BC)
- 2022 Abigail E. Magland, Paul E. Skelley, Seth M. Bybee, **Gareth S. Powell**. A tale of two cycads: Sensory variation between cycad-associated and free living Erotylidae (Coleoptera): presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2022 **Gareth S. Powell**, Natalie A. Saxton, Yelena M. Pacheco, Kathrin F. Stanger-Hall, Gavin J. Martin, Dominik Kusy, Luiz F.L. Da Silveira, Ladislav Bocak, Marc A. Branham, Seth M. Bybee. Beetle bioluminescence outshines aerial predators: presented at the International Firefly Meeting (Lisbon, PT)
- 2021 **Gareth S. Powell**. Phylogeny and visual system evolution in sap beetles (Coleoptera: Cucujoidea: Nitidulidae). PhD Dissertation defense: presented to the Department of Biology, Brigham Young University (Provo, UT).
- 2021 **Gareth S. Powell**, Natalie A. Saxton, Alexandra G. Duffy, Nicole L. Gunter, Seth M. Bybee. Repeated feeding guild evolution: the impact of competition on diversification in cucujoid beetles: presented at the Entomology Society of America Annual Meeting (Denver, CO).
- 2021 Natalie A. Saxton, **Gareth S. Powell**, Seth M. Bybee. Unraveling the historical biogeography of island damselflies (Odonata: Coenagrionidae: *Vanuatubasis*): presented at the Entomology Society of America Annual Meeting (Denver, CO).
- 2019 **Gareth S. Powell** and Seth M. Bybee. Do nitidulids have eyes bigger than their bellies? Morphological variation tied to feeding behavior: presented at the Entomology Society of America Annual Meeting (St. Louis, MO).
- 2019 Maiya Hamilton, **Gareth S. Powell**, Seth M. Bybee. If you are what you eat... what exactly are nitidulids: presented at the Entomology Society of America Annual Meeting (St. Louis, MO).

- 2019 Colin R. Jensen, Natalie A. Saxton, Abigail M. Dean, **Gareth S. Powell**, Seth M. Bybee. “Helikopter” models: ready for takeoff? Distribution of *Vanuatubasis* in Vanuatu: presented at the Entomology Society of America Annual Meeting (St. Louis, MO).
- 2019 Natalie A. Saxton, **Gareth S. Powell**, Milen G. Marinov, Abigail M. Dean, Seth M. Bybee. Hopping from “kreek” to “kreek” on the islands of Vanuatu: current understanding of *Vanuatubasis* Ober and Staniczek: presented at the International Conference of Odonatology
- 2018 **Gareth S. Powell**, Andrew R. Cline, Michael F. Whiting, and Seth M. Bybee. Phylogeny and evolution of feeding behaviors in sap beetles (Coleoptera: Cucujoidea: Nitidulidae): presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2018 Rachael Hadden, Amelia Johnson, **Gareth S. Powell**, and Seth Bybee. A summary of the adventive sap beetles (Coleoptera: Nitidulidae) in Vanuatu: small beetles with a large reach: presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2018 Teagan Mulford, Madison Lallatin, Benjamin Sasine, Erica Paxman, Anna Monson, **Gareth S. Powell**, and Seth Bybee. The naiads (nymphs) of *Vanuatubasis* (Odonata: Coenagrionidae): presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2018 Natalie Saxton, Kyler Johnson, Anna Monson, Stephen Serrano, **Gareth S. Powell**, Gavin Martin, and Seth Bybee. Taxonomy of *Atyphella aphrogeneia*, a marine firefly in Melanesia: presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2018 Parker Nielson, Talmage Brown, **Gareth S. Powell**, and Seth M. Bybee. Sap beetle (Coleoptera: Nitidulidae) ecology on the islands of Vanuatu: presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2017 **Gareth S. Powell**. Unraveling a monstrous mess within minuscule beetles (Coleoptera: Nitidulidae): presented to BYU Department of Biology (Provo, UT).
- 2017 **Gareth S. Powell**. Global phylogenetic framework and revised classification for the Carpophilinae (Coleoptera: Cucujoidea: Nitidulidae). Master’s thesis defense: presented to the Department of Entomology, Purdue University (West Lafayette, IN).
- 2016 **Gareth S. Powell**. Tales from the field: Vietnam 2016: Presented at the Wisconsin Entomological Society Fall Meeting (Madison, WI).
- 2016 **Gareth S. Powell**, Andrew R. Cline, Jennifer M. Zaspel. Preliminary phylogeny and revised classification of sap beetles in the Carpophilinae (Coleoptera: Nitidulidae): Presented at the XXV International Congress of Entomology (Orlando, FL).
- 2016 **Gareth S. Powell**, Julia L. Snyder, Timothy J. Anderson, Eugenio H. Nearn, Jennifer M. Zaspel. The Purdue Entomological Research Collection with comments on the Lepidoptera Holdings: Presented at the Annual Lepidopterists Society Meeting (Florissant, CO).
- 2015 Eugenio H. Nearn, Ian Swift, **Gareth S. Powell**, Jennifer M. Zaspel. Developing a long-term study in Costa Rica: presented at Entomology Collections Network Meeting (Minneapolis, MN).
- 2014 Eugenio H. Nearn, **Gareth S. Powell**, Jennifer M. Zaspel. Rehabilitation and Revitalization of the Purdue Entomological Research Collection: presented at Entomology Collections Network Meeting (Portland, OR).
- 2012 **Gareth S. Powell**. Beetle Communities in Fragmented Golf Course Habitats: presented at the Department of Entomology Undergraduate Capstone forum (Lafayette, IN).

Selected Contributed Posters

- 2026 Kenneth A. Geisert, Kyle E. Schnepf, **Gareth S. Powell**. Curating the Cerambycid Collection at NCSU: Recent Growth through Community Donations: presented to the Carolina Biodiversity Collaborative annual meeting (Chapel Hill, NC).
- 2026 Lily Deeter, Kyle E. Schnepf, **Gareth S. Powell**. Slide into the Archives: A Look Inside the Microscope Slide Collection of the NCSU Insect Museum: presented to the Carolina Biodiversity Collaborative annual meeting (Chapel Hill, NC).
- 2026 Sarah Jeffers, Rafael Guerrero, **Gareth S. Powell**. Evolution in Color: Investigating Aposematism in Coleoptera: presented to the Carolina Biodiversity Collaborative annual meeting (Chapel Hill, NC).

- 2026 Ava Herceg, **Gareth S. Powell**, Gavin J. Martin. Clicks in Cliques: Maximum Likelihood Insights into Elateroid Paraphyly and Trait Evolution: presented at the Wyoming undergraduate research symposium (Cheyenne, WY).
- 2026 Zoey Woods, **Gareth S. Powell**, Gavin J. Martin. Dorsal Coloration Patterns and Phylogenetic Relationships in Cryptarchinae: presented at the Wyoming undergraduate research symposium (Cheyenne, WY).
- 2026 Adriana Deming, Anna Blight Parker, **Gareth S. Powell**, Gavin J. Martin. Illuminating the Path: Tracheal System Adaptations Supporting Bioluminescence in *Ignelater havaniensis*: presented at the Wyoming undergraduate research symposium (Cheyenne, WY).
- 2025 Anna Blight Parker, Alexandra G. Duffy, Kyle E. Schnepf, **Gareth S. Powell**. Spectral Variation in United States Headlight Beetles (Coleoptera: Elateridae: Pyrophorini): presented at the North Carolina Entomological Society annual meeting (Raleigh, NC).
- 2025 Sarah M. Akulin, Brian M. Wiegmann, **Gareth S. Powell**. Investigating niche variation in Nearctic Antocha (Diptera: Limoniidae: Limoniinae) using species distribution modeling: presented at the North Carolina Entomological Society annual meeting (Raleigh, NC).
- 2024 Anna M. Blight, **Gareth S. Powell**, Seth M. Bybee. The tree is on FIRE: Molecular Phylogeny of Pyrophorini (Elateridae): presented at the College of Life Science Undergraduate Poster Competition (Provo, UT).
- 2024 Montana Roberts, Jasmin Carrillo Granados, Cagney O'Hara, Kyle E. Schnepf, Gareth S. Powell, Gavin J. Martin. Examining the evolutionary history of Soft Bodied Plant Beetles: presented at the Wyoming undergraduate research symposium (Cheyenne, WY).
- 2024 Evie Fales, Amanda Sinnott, Gareth S. Powell, Gavin J. Martin. Shining light on the phylogenetic relationships within Pyrophorini: presented at the Wyoming undergraduate research symposium (Cheyenne, WY).
- 2023 **Gareth S. Powell**, Lily Deeter, Trudi Deuel, Oliver Keller, Elise Pounders, Kyle E. Schnepf, Erin Powell. Chasing 12.5 million, databasing the Florida State Collection of Arthropods: presented at the Entomological Collections Network Annual Meeting (National Harbor, MD).
- 2023 Kyle E. Schnepf, Mayumi Needham, **Gareth S. Powell**. The impact of research associates on the growth of the Florida State collection of Arthropods: presented at the Entomological Collections Network Annual Meeting (National Harbor, MD).
- 2023 Taniyah I. Proby, Natanya S. Sam, Isabelle J. Seivley, Sean M. Harrington, **Gareth S. Powell**, Ami L. Wangeline, Zachary P. Roehrs, Gavin J. Martin. Phylogenetic analysis of Phalacridae (Insecta: Coleoptera) with an emphasis on feeding habits: presented at the Wyoming undergraduate research symposium (Cheyenne, WY)
- 2023 Jeremy J. Alberta, Zackariah R. J. Beck, Rishab M. Ranjitkar, Zachary P. Roehrs, Ami L. Wangeline, Sean M Harrington, **Gareth S. Powell**, Abigail E. Magland, Gavin J. Martin. Pharaxonothinae-Cycad coevolution explored through the lens of Phylogenetics: presented at the Wyoming undergraduate research symposium (Cheyenne, WY)
- 2022 Ellecyn F. Brimley, John M. Chaston, **Gareth S. Powell**, Madeline R. Whittaker, Seth M. Bybee. Is the gut-microbiome of Odonata more ecologically or evolutionarily serived: Here's our gut feeling; presented at the Entomology Society of America Annual Meeting (Vancouver, BC)
- 2022 Anna K. Monson, Ian Ashton, Lauren M. Weidner, Seth M. Bybee, **Gareth S. Powell**. Trust the guts: Preliminary survey of forensically important beetles in Vietnam: presented at the Entomology Society of America Annual Meeting (Vancouver, BC)
- 2022 Lily M. Gregson, Seth M. Bybee, **Gareth S. Powell**. Dens, dunes, and dung: Evaluating overlooked Coleoptera microhabitats in Vietnam: presented at the Entomology Society of America Annual Meeting (Vancouver, BC)
- 2022 Cordon D. Wade, Sam Bennett, **Gareth S. Powell**, Seth M. Bybee. A match made in Vietnam: associating undescribed females with known odonate males: presented at the Entomology Society of America Annual Meeting (Vancouver, BC)

- 2019 Laura N. Sutherland, Natalie A. Saxton, **Gareth S. Powell**, Seth M. Bybee. A glowing guide to *Atyphella* Olliff (Coleoptera: Lampyridae) in the South Pacific: presented at the Entomology Society of America Annual Meeting (St. Louis, MO).
- 2018 Natalie A. Saxton, **Gareth S. Powell**, Gavin J. Martin, Seth M. Bybee. Shedding a light on firefly diversity in Vanuatu: presented at the CURA undergraduate research conference (Provo, UT).
- 2018 Erica Paxman, Benjamin Sasine, Madison Lallatin, Teagan Mulford, **Gareth S. Powell**, and Seth Bybee. Finding "helikopters" (Odonata: Coenagrionidae) in Vanuatu: presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2018 Stephen Serrano, Anna Monson, Kyler Johnson, Natalie Saxton, **Gareth S. Powell**, and Seth Bybee. Where earth, fire, and water meet: A story of *Atyphella* (Coleoptera: Lampyridae) in Vanuatu: presented at the Entomology Society of America Annual Meeting (Vancouver, BC).
- 2017 **Gareth S. Powell**, Andrew R. Cline, and Seth M. Bybee. A review of anthophily across sap beetles (Coleoptera: Cucujoidea: Nitidulidae): presented at the Entomology Society of America Annual Meeting (Denver, CO).
- 2017 **Gareth S. Powell** and Jennifer M. Zaspel. Taxonomic history of the subfamily Carpophilinae Erichson, 1843 (Cucujoidea: Nitidulidae): presented at the Entomology Society of America, North Central Branch Meeting (Indianapolis, IN).
- 2015 **Gareth S. Powell**, R. Michael Brattain, Jennifer M. Zaspel. Coleoptera Associated with the Plains Pocket Gopher in Indiana: presented at the Entomology Society of America Annual Meeting (Minneapolis, MN).

AWARDS AND HONORS

- 2025 NCSU Goodnight Early Career Innovator Award
- 2025 NCSU CALS Values Award for Excellence in Discovery
- 2019 BYU Graduate Student Society's Professional Presentation Award
- 2018 ESA SysEB Patch Award winner for outstanding research by a master's student
- 2018 Graduate Student Research Enhancement Program Awardee, The Coleopterists Society
- 2017 Graduate Student Poster Competition, Entomology Society of America, SysEB section
- 2016 Purdue Department of Entomology Outstanding Masters Student Award
- 2010 B. & D. A. Weisburger Memorial Scholarship Recipient, Robert Oakes Memorial Scholarship Recipient
- 2009 J. Edwin Sameth Memorial Scholarship Recipient, Laura H. Billman Scholarship Recipient
- 2008 Bruce C. Douglass Memorial Scholarship Recipient, Joseph L. Plymate Scholarship Recipient
- 2007 EarthWatch SCAP Scholar

MUSEUMS/COLLECTIONS STUDIED (totaling 188 days*)

*Collections where a position was held were excluded from total days

A.J. Cook Museum, Michigan State University, East Lansing, MI, (ARC) 2015

Andrew R. Cline Private Collection, Sacramento, CA (ARCC) 2014, 2018

American Coleoptera Museum, San Antonio, TX (ACMT) 2014

Archbold Biological Research Station, Venus, FL (ABSC) 2023

Arizona State University Insect Collection, Tempe, AZ (ASUHC) 2015, 2019

Audubon Society Insectarium, New Orleans, LA 2013

Australian National Insect Collection, Canberra, Australia (ANIC) 2019

Bernice Pauahi Bishop Museum, Honolulu, HI, (BPBM) 2021

California State Collection of Arthropods, Sacramento, CA (CSCA) 2014, 2018

Clemson University Arthropod Collection, Clemson, SC (CUAC) 2018

Field Museum of Natural History, Chicago, IL (FMNH) 2009, 2011–2019

*Florida State Collection of Arthropods, Gainesville, FL (FSCA) 2014–2022, 2025

Frost Entomological Museum, State College, PA (PSUC) 2017

Illinois Natural History Survey, Champaign-Urbana, IL (INHS) 2015, 2016, 2019
 Kyle E. Schnepf Private Collection, Gainesville, FL (KESC) 2013–2020
 Mississippi Entomology Museum, Starkville, MS (MEM) 2014
 Milwaukee Public Museum, Milwaukee, WI (MPM) 2015, 2017
 Montana State University Collection, Bozeman, MT (MTUC) 2021, 2024
 *Monte L. Bean Life Science Museum, BYU, Provo, UT (BYUC) 2017–2019
 Museo Regionale di Scienze Naturali Torino, Turin, Italy (MRSN) 2026
 Museum für Naturkunde, Berlin, Germany (MNHUB) 2019
 Muséum National d'Histoire Naturelle, Paris, France (MNHN) 2018
 Museum of Comparative Zoology, Cambridge, MA (MCZ) 2016
 Národní Muzeum, Prague, Czech Republic (NMPC) 2018
 Natural History Museum, London, United Kingdom (NHM) 2017, 2018, 2020
 Naturhistorisches Museum Basel, Basel, Switzerland (NHMB) 2018
 Naturkunde Museum Stuttgart, Stuttgart, Germany (SNMH) 2018
 New Zealand Arthropod Collection, Auckland, New Zealand (NZAC) 2018
 *North Carolina State University Insect Museum, Raleigh, NC (NCSU) 2019, 2023
 Paolo Audisio Private Collection, Rome, Italy (PAIC) 2018
 *Purdue Entomological Research Collection, West Lafayette, IN (PERC) 2009–2019
 R. Michael Brattain Private Collection, Lafayette, IN (RMBC) 2014
 Santa Barbara Museum of Natural History, Santa Barbara, CA (SBMNH) 2023
 Sapienza Rome University Insect Collection, Rome, Italy (SRIC) 2018
 Vietnam National Museum of Natural History, Hanoi, Vietnam (VNMN) 2016, 2022
 University of Central Florida Insect Collection, Orlando, FL (UCFC) 2019
 University of Minnesota Insect Collection, Minneapolis, MN (UMSP) 2015
 University of Wisconsin Research Collection, Madison, WI (WIRC) 2015, 2016
 University of Wisconsin Oshkosh Insect Collection, Oshkosh, WI (UWOIC) 2015
 United States National Museum of Natural History, Washington D.C. (USNM) 2016, 2017, 2026
 William B. Warner Private Collection, Phoenix, AZ (WBWC) 2015

FIELD EXPERIENCE (totaling 617 days)

International – 222 days

2025 **Peru** (Finca Los Piedres, Madre de Dios)
 2022 **Vietnam** (Bach Ma, Cuc Phuong, Bidoup, Phia Ouc)
 2022 **Peru** (Finca Los Piedres, Madre de Dios)
 2019 **Vanuatu** (Ambrym, Efate, Maewo, Malekula, Pentecost, Tanna)
 2019 **Gabon** (Crystal Mountain National Park; Ivindo National Park; Lope National Park)
 2018 **Vanuatu** (Efate, Erromango, Gaua, Malekula, Santo, Tanna)
 2016 **Vietnam** (Ba Vi National Park; Cuc Phuong National Park; Mau Son National Park)
 2014 **United Kingdom** (Porthmadog, Wales; Derbyshire, England)
 2012 **Costa Rica** (CATIE, Turrialba; Chirripo Mts.; Cahuita)
 2011 **United Kingdom** Derbyshire, England
 2007 **Iceland** Skaftafell National Park (geologic and glacial surveys)

Domestic – 395 days

Alabama (William B. Bankhead National Forest), Arizona (Coronado National Forest), California, Florida (Archbold Biological Research Station, Blackwater River State Forest, Florida Keys, Miccosukee Canopy Greenway), Georgia (Brasstown Bald), Hawaii (Oahu), Idaho, Indiana (Brown County State Park, Indiana Dunes State Park, Kankakee Sands, Muscatatuck National Wildlife Refuge, Pitman's Cave, Ross Hills Park, Shades

State Park, Symbiosis Nature Preserve), Kentucky (Horse Cave), Mississippi, Nevada, North Carolina, Oregon, Tennessee (University of Tennessee Research Center), Texas (Davis Mountains, Rio Grande Valley), Utah (Little Sahara Recreation Area, Lytle Ranch, Provo Canyon, Scenic Nebo Byway), Virginia, West Virginia, Wisconsin

WORKSHOPS ATTENDED

- 2023 World Cataloging workshop: by Matt Gimmel, Gareth Powell, Kyle Schnepf, Andrew Johnston
- 2022 MiSeq operation and sequencing best practices by Illumina
- 2022 TaxonWorks Together event and workshop by Matt Yoder, Deborah Paul
- 2021 North American Tenebrionidae Identification and Classification Workshop: by Patrice Bouchard, Marcin J. Kaminski, Paloma Mas-Peinado, Aaron D. Smith, Warren E. Steiner, Jr.
- 2017 Entomology Collections Management Workshop at the Milwaukee Public Museum and the Field Museum of Natural History: by David Furth, Crystal Maier, Floyd Shockley, Jennifer Zaspel
- 2013 Specify Collection Specimen Database Management Workshop at Purdue: by Andy Bentley

ONLINE PUBLICATIONS/TOOLS

- Courtney L. Brissey, Gareth S. Powell, Andrew R. Cline, Joseph V. McHugh. Carpopiline-ID. (2018). <https://site.caes.uga.edu/carpophiline-id/>
- Gareth S. Powell and Andrew R. Cline. Checklist to the Nitidulidae. Catalogo Taxonomico da Fauna do Brasil. (2015). <http://fauna.jbrj.gov.br/fauna/listaBrasil/>

MEDIA COVERAGE

- 2026 Scientists identify ‘mystery beetle’ attacking blueberry farms across North Carolina. EurekAlert AAAS. <https://www.eurekalert.org/news-releases/1130546>
- 2026 A ‘mystery beetle’ is devouring North Carolina’s precious blueberries. Popular Science. <https://www.popsoci.com/environment/beetles-threaten-blueberries-north-carolina/>
- 2026 NC State researchers identify “mystery bug” that’s been attacking North Carolina blueberry farms. WUNC News. <https://www.wunc.org/environment/2026-06-16/nc-state-researchers-mystery-bug-attacking-north-carolina-blueberry-farms>
- 2026 Researchers identify beetle pest damaging roots beneath NC blueberry fields. WECT News6. <https://www.wect.com/2026/06/23/researchers-identify-beetle-pest-damaging-roots-beneath-nc-blueberry-fields/>
- 2025 Peru Expedition Advances NC State Insect Collection, Research. Amanda Kerr. NC State CALS News. <https://cals.ncsu.edu/news/peru-expedition-advances-nc-state-insect-collection-research/>
- 2024 How can you make your yard more friendly to fireflies? WUNC Public Radio. <https://www.wunc.org/environment/2024-07-11/attract-fireflies-north-carolina-light-pollution>
- 2024 Why do Fireflies Light Up? And How Can I Bring More Fireflies to My Yard? Matt Shipman. NC State University News. <https://news.ncsu.edu/2024/06/why-do-fireflies-light-up/>
- 2022 Why fireflies first started to glow during flight. McKenzie Prillamen. Nature. <https://doi.org/10.1038/d41586-022-01966-8>
- 2021 Adult fireflies started glowing for sex, not to avoid predators. Zach Savitsky. Science. doi:10.1126/science.acz9845
- 2020 At MSU, a 153-year-old insect collection is being used to solve modern problems. Rachel Osborn. Lansing State Journal. <https://www.lansingstatejournal.com/story/life/2020/08/07/msu-stone-age-beetles-rare-butterflies-and-skinned-caterpillars/3301223001/>
- 2018 Midwestern billbugs: Seasonal biology and life-stage association. Teresa Carson. Golf Course Management Magazine. <https://www.gcmonline.com/course/environment/news/>
- 2014 Robot will help Purdue digitize its collection of 2-million Insects. Kristin Lalavenda. WBAA News. <https://www.wbaa.org/general-news/2014-12-05/robot-will-help-purdue-digitize>

PROFESSIONAL SOCIETIES

2022–present Carolina Biodiversity Collaborative (CBC)
2014–present Center for Systematic Entomology (CSE)
2008–present (The) Coleopterists Society
2014–present Entomology Collections Network (ECN)
2014–present Entomology Society of America (ESA)
2017–present Society of Systematic Biologists (SSB)
2016–2019 (The) Lepidopterists Society
2017–2019 (The) Linnean Society of London
2018–2019 Society for the Study of Evolution (SSE)
2015–2018 Wisconsin Entomological Society (WES)

PROFESSIONAL SERVICE

Leadership positions

2024–present Governance Board Member, Carolina Biodiversity Collaborative (CBC)

Review Editor

2026–present Insect Systematics and Diversity
2017–2023 Insecta Mundi: Coleoptera
2019–2020 Proceedings of the Entomological Society of Washington: Coleoptera

Journal Referee (28 Journals)

Acta Entomologica Musei Nationalis Prague, Annals of the Entomological Society of America, Austral Entomology, Biodiversity Data Journal, Canadian Journal of Arthropod Identification, Communications Biology, Diversity, Ecology and Evolution, European Journal of Taxonomy, Forest Ecology and Management, International Journal of Odonatology, Insecta Mundi, Insects, Insect Systematics and Diversity, Invertebrate Systematics, Journal of Asia-Pacific Entomology, Journal of Virginia Natural History Society, Oriental Insects, Physical Mathematical and Natural Sciences, PNAS, Proceedings of the Entomological Society of Washington, Revista Brasileira de Entomologia, Revista Peruana de Biología, The Coleopterists Bulletin, The Great Lakes Entomologist, The Pan-Pacific Entomologist, Zoological Journal of the Linnean Society, Zookeys, Zoologischer Anzeiger, Zootaxa.

Conference duties

2025 SysEB Graduate Student Competition Judge, Entomological Society of America Annual Meeting, Portland, OR.
2022 SysEB Graduate Student Poster Competition Judge, Entomological Society of America Annual Meeting, Vancouver, CAN.
2021 SysEB Graduate Student Poster Competition Judge, Entomological Society of America Annual Meeting, Denver, CO.
2019 SysEB Undergraduate Student Poster Competition Judge, Entomological Society of America Annual Meeting, St. Louis, MO.
2017 Co-organized and proctored the Triplehorn Insect Curation Challenge at the North Central Branch, Entomology Society of America Annual Meeting (Indianapolis, IN)
2015 Field trip coordinator, Lepidopterists' Society Annual Meeting (Lafayette, IN)

DEPARTMENTAL SERVICE

2026 Member of Search Committee for NCSU DEPP Row Crop Entomologist TT Faculty Search
2026–present Member of the NCSU Dept of Entomology and Plant Pathology Advisory Committee (DAC)

2025–present	Faculty advisor for Entomology Graduate Student Association (EGSA)
2025–present	Member of Genetics and Genomics Scholars Program Admissions committee
2024–present	Chair of NCSU Museum advisory committee
2024–present	Member of NCSU Entomology Program Admissions committee
2025–present	Member of NCSU Entomology Program Academic Affairs/Curriculum committee
2024	Chair of Search Committee for NCSU Insect Museum Curator
2023	Administrator of FSCA TaxonWorks account for collections management
2022–2023	Primary website content creator for Florida State Collection of Arthropods
2019–2021	Wet Lab Manager for the Department of Biology, BYU
2018	Student representative for the 7-year review for the Department of Biology, BYU
2016	Student representative for Purdue Entomology Education and Outreach Committee
2015–2016	Student representative for Purdue Entomology Recruitment Committee
2015	Entomology Graduate Organization Seminar and Symposium Chair
2009–2011	Undergraduate Student Organization Treasurer (Thomas Say Society)

OUTREACH

2025	Alumni speaker for Purdue recruitment event, “Discover Insect Biology Day”
2025	Co-host Insect Museum open house (weekly for students and staff to work in the collection)
2024	Hosted visitors and given museum tours for public, external and internal students
2024	Gave Museum tours to prospective students attending NCSU CALS “Day on Campus”
2023	Presented to undergraduate student group on best practices for specimen curation
2023	Presented to Florida hobbyist beekeepers’ best practices for Small Hive Beetle sampling
2022–2023	Tours of the Florida State Collection of Arthropods (Univ. of FL Entomology classes, public, state employees)
2018	Organized a meeting of Utah Coleopterists hosted at the Monte L. Bean Museum
2017	Presented molecular lab techniques with hands on exercises to Provo Boy Scout troop
2017	Field trip coordinator, BIO 441 Entomology Class, BYU
2017	Presented on water quality and macroinvertebrates to 3rd – 6th grade (~ 60 students)
2016	Co-presented workshop on insect collecting and preparation to 4-H county meeting
2016	Aided in organization and execution of Department of Entomology “Day on Campus” recruitment event, assisted in department tours and presentation to students
2014–2015	Field assistant/instructor for ENTM 506 class trip to Univ. of TN research station, Knoxville
2015, 2017	Team leader for Milwaukee BioBlitz for public outreach and data collection (Coleoptera)
2015	Organizer for PERC “Labelpalooza” outreach event
2013–2016	Estimated 45 departmental tours (focus on Purdue Entomological Research Collection) for young children, prospective undergraduate and graduate students, members of the public, administration, and visiting academics
2013–2016	Proctor and co-creator for State CDE Entomology exams
2013	Presenter at Connor Prairie Halloween event
2012–2017	4-H State Fair Insect Collection Judge
2012	Kankakee Sands, IN BioBlitz participant
2011–2015	Aided in determinations for several Indiana Academy of Science BioBlitz events
2006–2009	Aquatic Macro Invertebrate Surveys for the USGS, Shelby and Rush County, Indiana