

NATHAN P. LORD

Curriculum Vitae

19 July 2022

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EDUCATION

Ph.D., Biology (2013). Department of Biology, University of New Mexico. Major Advisor: Kelly B. Miller.
Dissertation Title: *Systematics within the Zopheridae Complex (Coleoptera: Tenebrionoidea)*.

M.S., Entomology (2008). Department of Entomology, University of Georgia. Major Advisor: Joseph V. McHugh.
Thesis title: *Systematics within the Cerylonid Series (Coleoptera: Cucujoidea)*.

B.S., Entomology (2006). Department of Entomology, University of Georgia. Major Advisor: Joseph V. McHugh.

PROFESSIONAL APPOINTMENTS

2018–present	Assistant Professor and Director of the Louisiana State Arthropod Museum (LSAM) , Department of Entomology, Louisiana State University. Appointment split: 50% research, 30% teaching, 20% extension
2016–2018	Assistant Professor and Curator , Department of Biological and Environmental Sciences, Georgia College & State University. Appointment split: 50% teaching, 50% research
2016–present	Adjunct Faculty , Department of Entomology, University of Georgia
2016–present	Collection Associate , Arthropod Collection, Georgia Museum of Natural History
2013–2016	Postdoctoral Research Fellow , Department of Biology, Brigham Young University

PUBLICATIONS

Book Chapters

1. Ślipiński, A.S., N.P. Lord, and J.F. Lawrence. 2010. 10.28. Bothrideridae Erichson, 1845. Pp. 411–422 *in*: Handbook of Zoology. Band/Volume IV Arthropoda: Insecta Teilband/Part 38. Coleoptera, Beetles. Volume 2. Morphology and Systematics (Polyphaga partim). (Eds RG Beutel, RAB Leschen and JF Lawrence). W. DeGruyter, Berlin.

Upcoming: 2022–2023. Subject editor and chapter author for 15 chapters in the upcoming book *Beetles of Canada and the United States*, a revised version of *American Beetles*.

Articles in Review

3. Arey, N., N.P. Lord, and J.A. Davis. Evaluation of Hemp (*Cannabis sativa*) (Rosales: Cannabaceae) as an Alternative Host Plant for Polyphagous Noctuid Pests. Submitted to *Journal of Economic Entomology* on 27 June 2022.
2. Sharkey, C.R., J. Blanco, T. Wardill, and N.P. Lord. Jewel beetle opsin expression in *Drosophila* reveals gene duplication and divergence as the mechanism for diverse spectral sensitivities. Submitted to *Science Advances* on 27 May 2022.
1. Weller, H.I., S.M. Van Belleghem, A.E. Hiller, and N.P. Lord. Flexible color segmentation of biological images with R package *recolorize*. Submitted to *eLife Tools and Resources* on 24 May 2022.

Refereed Journal Articles (in reverse chronology; *graduate advisee, **undergraduate advisee)

24. 2022. Park, J.S., N.S. Saleh*, H. Lin, H. Alqrinawi, and N.P. Lord. Physical and Mechanical Properties of Nest Soils Used by Mud Dauber Wasps – a Geotechnical Engineering Perspective. *Scientific Reports* 12, 2192 (2022). <https://doi.org/10.1038/s41598-022-06162-2>
23. 2021. K.D. Feller, C.R. Sharkey, A. McDuffee-Altekruse, H.D. Bracken-Grissom, N.P. Lord, M.L. Porter, and L.E. Schweikert. Surf and Turf Vision: Patterns and predictors of visual acuity in compound eye evolution. *Arthropod Structure & Development*. 60, Jan 2021, 101002. <https://doi.org/10.1016/j.asd.2020.101002>
22. 2020. Kang, I.*, S. Shaw, and N.P. Lord. Two new species and distribution records for the genus *Bobayella* Belokobylskij, 1987 from Costa Rica (Hymenoptera: Braconidae: Cardiochilinae). *ZooKeys* 996: 93–105. <https://doi.org/10.3897/zookeys.996.59075>
21. 2020. Kang, I.*, K.D. Long, M.J. Sharkey, J.B. Whitfield, and N.P. Lord. *Orientocardiochiles*, a new genus of Cardiochilinae (Hymenoptera, Braconidae), with descriptions of two new species from Malaysia and Vietnam. *ZooKeys* 971: 1–15 (2020). <https://doi.org/10.3897/zookeys.971.56571>
20. 2020. Bermúdez-Ureña, E., C. Kilchoer, N.P. Lord, U. Steiner, and B.D. Wilts. Structural diversity with varying disorder enables the multi-color display in the longhorn beetle *Sulawesiella rafaelae*. *iScience*, 23(7), 101339. Published online 02 July. <https://doi.org/10.1016/j.isci.2020.101339>
19. 2020. Buckley, T.R., N.P. Lord, A. Ramon-Laca, J.S. Allwood, and R.A.B. Leschen. Multiple lineages of hyperdiverse Zopheridae beetles survived the New Zealand Oligocene Drowning. *Journal of Biogeography*, 47: 927–940. <https://doi.org/10.1111/jbi.13776>
18. 2018. Leschen, R.A.B. and N.P. Lord. Three new genera of New Zealand Sychitini (Coleoptera: Zopheridae: Colydiinae): Erratum. *The Coleopterists Bulletin*, 72(2): 386–387. <https://doi.org/10.1649/0010-065X-72.2.386>
17. 2017. Leschen, R.A.B. and N.P. Lord. Three new genera of New Zealand Sychitini (Coleoptera: Zopheridae: Colydiinae). *The Coleopterists Bulletin*, 71(4): 733–745. <https://doi.org/10.1649/0010-065X-71.4.733>
16. 2017. Sharkey, C.R., M.S. Fujimoto**, N.P. Lord, A. Suvorov*, G.J. Martin*, S. Shin, D.D. McKenna, S.M. Bybee. Overcoming the loss of blue sensitivity through opsin duplication in the largest animal group, beetles. *Scientific Reports* 7, Article number 8 (2017). <https://doi.org/10.1038/s41598-017-00061-7>
15. 2017. Zhou, Y-L, N.P. Lord, and A.S. Ślipiński. Review of the Australian *Teredolaemus* Sharp, 1885 (Coleoptera: Teredidae) with description of five new species. *Austral Entomology*, 56: 439–450. <https://doi.org/10.1111/aen.12260>
14. 2016. Lord, N.P. and M.A. Ivie. Several new genera and species of New World Zopheridae (Coleoptera: Tenebrionoidea). *The Coleopterists Bulletin*, 70(4): 715–753. <https://doi.org/10.1649/0010-065X-70.4.715>
13. 2016. Ivie, M.A., N.P. Lord, I.A. Foley, and S.A. Ślipiński. Colydiine genera of the New World: A key and nomenclatural acts 30 years in the making (Coleoptera: Zopheridae: Colydiinae). *The Coleopterists Bulletin*, 70(4): 755–788. <https://doi.org/10.1649/0010-065X-70.4.755>
12. 2016. Lord, N.P., R.L. Plimpton, C.R. Sharkey, A. Suvorov*, J.P. Lelito, B.M. Willardson, and S.M. Bybee. A cure for the blues: Opsin duplication and subfunctionalization for short wavelength sensitivity in jewel beetles (Coleoptera: Buprestidae). *BMC Evolutionary Biology*, 16:107. <https://doi.org/10.1186/s12862-016-0674-4>
11. 2016. Arnold, P.R.**, N.P. Lord, A.N. Smith*, and S.M. Bybee. The effects of non-ideal temperature regimes on RNA quality from samples stored in RNA_{later}: an attempt to replicate field conditions. *Journal of Analytical and Molecular Techniques*, 2(1): 8. <https://doi.org/10.13188/2474-1914.1000006>
10. 2016. Ivie, M.A., N.P. Lord, and M. Elgueta. Resolving a branching taxonomy conundrum – can one species be in two places at one time under the same name (Zopheridae: Colydiinae and Tenebrionide)? *The Coleopterists Bulletin*, 70(1): 105–110. <https://doi.org/10.1649/072.070.0114>
9. 2015. Martin, G.J.*, N.P. Lord, and S.M. Bybee. Review of the firefly (Coleoptera: Lampyridae) visual system and evolution of the genes underlying color vision. *Organisms Diversity, & Evolution*, 15(3): 513–526. <https://doi.org/10.1007/s13127-015-0212-z>
8. 2015. Robertson, J.A., A.S. Ślipiński, M. Moulton, F.W. Shockley, A. Giorgi, N.P. Lord, D.D. McKenna, W. Tomaszewska, J. Forrester, K.B. Miller, M.F. Whiting, and J.V. McHugh. Phylogeny and classification of

- Cucujoidea and the recognition of a new superfamily Coccinelloidea (Coleoptera: Cucujiformia). *Systematic Entomology*, 40(4): 745–778. <https://doi.org/10.1111/syen.12138>
7. 2014. Lord, N.P. and R.A.B. Leschen. Illustrated catalogue and type designations of the New Zealand Zopheridae (Coleoptera: Tenebrionoidea). *Zootaxa*, 3809(1): 1–127. <https://doi.org/10.11646/zootaxa.3809.1.1>
 6. 2014. Lord, N.P., C.E. Carlton and R.A.B. Leschen. A new species of *Leptochromus* Motschulsky from Costa Rica (Coleoptera: Staphylinidae) with notes on morphology and natural history. *The Coleopterists Bulletin*, 68(1): 119–125. <https://doi.org/10.1649/0010-065X-68.1.119>
 5. 2014. Alekseev, V.I. and N.P. Lord. A new species of *Xylolaemus* (Coleoptera: Zopheridae: Colydiinae) from Baltic Amber. *The Baltic Journal of Coleopterology*, 14(1): 97–102. <http://dx.doi.org/10.11646/zootaxa.4178.3.6>
 4. 2013. Lord, N.P. and J.V. McHugh. A taxonomic revision of the genus *Deretaphrus* Newman (Coleoptera: Bothrideridae). *The Coleopterists Society Monograph*, 12: 1–107. <https://doi.org/10.1649/072.067.0mo4.1>
 3. 2010. Lord, N.P., C.S. Hartley, K.B. Miller, J.V. McHugh, and M.F. Whiting. Phylogenetic analysis of the minute brown scavenger beetles (Coleoptera: Latridiidae), and recognition of a new beetle family, Akalypsoischiidae, fam. n. (Coleoptera: Cucujoidea). *Systematic Entomology*, 35: 753–763. <https://doi.org/10.1111/j.1365-3113.2010.00532.x>
 2. 2010. Bousquet, Y., P. Bouchard, and N.P. Lord. 2010. Case 3517. LATRIDIIDAE Erichson, 1842 (Insecta, Coleoptera): proposed precedence over CORTICARIIDAE Curtis, 1829; and *Corticaria* Marsham, 1802: proposed conservation of usage by designation of *Corticaria ferruginea* Marsham, 1802 as the type species. *Bulletin of Zoological Nomenclature*, 67(2). June. <https://doi.org/10.21805/bzn.v67i2.a7>
 1. 2008. Shockley, F.W., M.D. Ulyshen, and N.P. Lord. New state records and natural history notes for *Micropsephodes lundgreni* Leschen and Carlton (Coleoptera: Endomychidae). *The Coleopterists Bulletin*, 62(3): 350–352. <https://doi.org/10.1649/1094.1>

Refereed Electronic Publications and Tools

3. 2015. Nearn, E.H., N.P. Lord, S.W. Lingafelter, A. Santos-Silva, K.B. Miller, and Jennifer M. Zaspel. Longicorn ID: Tool for diagnosing cerambycid families, subfamilies, and tribes. The University of New Mexico and Center for Plant Health Science and Technology, USDA, APHIS, PPQ. <http://cerambycids.com/longicornid/>
2. 2011. Lord, N.P., E.H. Nearn, and K.B. Miller. Ironclad ID: Tool for diagnosing ironclad and cylindrical bark beetles (Coleoptera: Zopheridae) of North America north of Mexico. The University of New Mexico and Center for Plant Health Science and Technology, USDA, APHIS, PPQ. <http://coleopterasystematics.com/ironcladid/>
1. 2011. Nearn, E.H., N.P. Lord, and K.B. Miller. Oncid ID: Tool for diagnosing adult twig girdlers (Cerambycidae: Lamiinae: Onciderini). The University of New Mexico and Center for Plant Health Science and Technology, USDA, APHIS, PPQ. <http://cerambycids.com/oncidid/>

Technical bulletins/non-refereed publications

2. 2021. Brown, K., S. Brown, J. Davis, R. Diaz, B. Fitzpatrick, K. Healy, F. Huang, N. Lord, T. Reagan, D. Ring, M. Stout, T. Smith, Q. Sun, T. Towles, and B. Wilson. Louisiana Insect Pest Management Guide, LSU AgCenter Publication No. 1838 ([link](#)).
1. 2020. Ring, D.R., A.L. Morgan, D.P. Reed, F. Huang, L.D. Foil, M.J. Stout, S.J. Johnson, T.E. Reagan, T.D. Schowalter, T. Smith, J. Beuzelin, J.A. Davis, S. Brown, D.L. Kerns, K. Healy, R. Diaz, N.P. Lord, Q. Sun, and B. Wilson. Louisiana Insect Pest Management Guide, LSU AgCenter Publication No. 1838 ([link](#)).

Electronic Resources

2009. Lord, N.P. Bothrideridae. Cocoon-forming beetles. <http://tolweb.org/Bothrideridae/9165> in The Tree of Life Web Project.
2009. Shockley, F.W., C.S. Hartley, and N.P. Lord. Latridiidae. Minute brown scavenger beetles. <http://tolweb.org/Latridiidae/9172> in The Tree of Life Web Project.

GRANTS AND FUNDING (Total awarded: \$1,017,081)

Funded

2022. United States Air Force Research Lab - Doolittle Institute: Nature inspired and Biotechnology University Day. Seedling Grant: "Circular polarization in *Chrysina*: understanding design rules for novel visual signals and their applications." \$74,996.
2021. USDA-NIFA, Agriculture and Food Research Initiative. SEED Grant: Investigating the impacts of covert virus infection to visual pathways and responses in the honey bee. PI: D.R. Swale; Co-PIs N.P. Lord, T.D. Anderson, and M. Simone Finstrom. (Total award budget \$272,717)
2018. National Science Foundation, Systematics and Biodiversity Science Program: EAGER: Color, Vision, and Species Delimitation in the Jewel Beetles: From Opsin Sequence to Spectral Signals. PI: N.P. Lord; Co-PIs T.J. Wardill, B.D. Wilts, and S.M. Bybee. (DEB-1841704; Total award budget \$299,997)
2017. Georgia College: College of Arts and Sciences Faculty Development Grant (\$3,804)
2017. Georgia College: Student Technology Fee Innovation Grant (\$6,018)
2017. Georgia College: Faculty Research Grant: Next-Generation Student Training for Next-Generation Science (\$4,200)
2016. Georgia College: Student Technology Fee Innovation Grant (\$5,759)
2016. Georgia College: ENGAGE Mini-grant for Community-based Engaged Learning (\$2,000)
2016. Georgia College: College of Arts and Sciences Faculty Development Grant (\$1,950)
2016. USDA sub-award: Biology of the Asian Longhorned Beetle in Ohio. USDA/Xavier University (\$4,982)
2014. USDA/APHIS CPHST: Lucid Key to Jewel Beetles (Buprestidae), awarded to N.P. Lord (P.I.) and S.M. Bybee (Co-P.I.) (\$126,499)
2012. NSF Doctoral Dissertation Improvement Grant (\$19,570)
2012. Society of Systematic Biologists Mini-ARTS Grant (\$3,000)
2012. USDA/APHIS CPHST Supplemental Funds (\$2,000)
2012. UNM Office of Grad. Studies Graduate Research Supplement Grant (\$2,000)
2012. Ernst Mayr Travel Grant, Museum of Comparative Zoology, Harvard (\$1,500)
2012. UNM Office of Grad. Studies Research Project and Travel Grant (\$620)
2012. Grad. Research Allocations Committee, UNM Dept. of Biology (\$304)
2012. Grad. Research Allocations Committee, UNM Dept. of Biology (\$150)
2012. Sigma Xi Grants-in-Aid of Research (GIAR) (\$669)
2012. American Museum of Natural History Weevil Course Stipend (\$500)
2012. Lynn A. Hertel Graduate Research Scholarship, UNM Dept. of Biology (\$2,000)
2012. Grove Summer Research Scholarship, UNM Dept. of Biology (\$3,000)
2012. Entomological Soc. Of America SysEB Section Student Travel Award (\$1,000)
2012. Grad. Research Allocations Committee, UNM Dept. of Biology (\$400)
2010. USDA/APHIS CPHST: Lucid Key to Wood Boring Beetles (Cerambycidae & Zopheridae), awarded to K.B. Miller (P.I.), N.P. Lord, and E.H. Nearn (Co-P.I.s) (\$173,000)
2010. Student Fellowship, North American Workshop in Cladistics Methods, The Ohio State University & The Willi Hennig Society, Columbus, OH (\$600)
2009. Grad. Research Allocations Committee, UNM Dept. of Biology (\$400)
2009. Grad. Research Allocations Committee, UNM Dept. of Biology (\$150)
2009. Grad. Research Allocations Committee, UNM Dept. of Biology (\$396)
2007. H.H. Ross Memorial Foundation, UGA Dept. of Entomology (\$750)
2005. H.H. Ross Memorial Foundation, UGA Dept. of Entomology (\$1500)
2005. Joshua Laerm Academic Support Grant, GA Museum of Natural History (\$650)

AWARDS AND HONORS (Selected)

2020. Article of the Year, Louisiana Agriculture Magazine. "Color of Jewels: Studies of Beetle Coloration Shed Light on Insect Sight and Communication" *Louisiana Agriculture Magazine*, 63 (2): 10–13, Spring 2020. ([link](#))
2018. Recipient of the Distinguished Faculty Award, Georgia College Honors Program
2017. Outstanding Paper of the Year Award – The Coleopterists Society. Selected by the editorial board as the best paper published in *The Coleopterists Bulletin* in 2016.

- 2016. USDA Cooperative Agricultural Pest Survey (CAPS) Recognition Award for the 2015 Cerambycidae and Buprestidae Survey and Identification Workshops, Amherst, MA, USA.
- 2014. John Henry Comstock Award (Outstanding Ph.D. Student), given by the Southwestern Branch of the Entomological Society of America.
- 2014. J.G. Edwards Prize, Best Published Master's Thesis on the topic of Coleoptera, given by The Coleopterists Society.
- 2013. Patricia Vaurie Monograph Award, given by the Coleopterists Society.
- 2008. Kirby L. Hays Memorial Award (Outstanding M.S. Student), given by the Southeastern Branch of the Entomological Society of America.
- 2008. E. Broadus Browne Outstanding Research Award, M.S. Division in the College of Agriculture and Environmental Sciences, University of Georgia.
- 2008. Outstanding M.S. Student Award, Georgia Entomological Society.
- 2008. Outstanding Teaching Assistant Award, Dept. of Biology, University of Georgia.
- 2008. First Place, M.S. Student Paper Competition, Southeastern Branch Meeting of the Entomological Society of America.
- 2008. H.O. Lund Outstanding M.S. Student Award, Dept. of Entomology, University of Georgia, Athens, GA.
- 2007. Outstanding M.S. Student Award, Georgia Entomological Society.
- 2005. First Place, President's Prize, poster presentation, Entomological Society of America Annual Meeting.

RESEARCH EXPERIENCE

International Field Work (7 countries)

Bolivia, Costa Rica, Madagascar, New Zealand, Panama, Rwanda, Vietnam

Collections Research - International (13 collections)

ANIC (Canberra, Australia), BMNH (London, U.K.), IRSNB (Brussels, Belgium), MNCR (San Jose, Costa Rica), MNHN (Paris, France), MRAC (Tervuren, Belgium), MNRJ (Rio de Janeiro, Brazil), MZSP (São Paulo, Brazil), NMPC (Prague, Czech Republic), NZAC (Auckland, New Zealand), QMBA (Queensland, Australia), STRI (Gamboa, Panama), UASC (Santa Cruz, Bolivia)

Collections Research - United States (11 collections)

AMNH (New York City, NY), BPBM (Honolulu, HI), CASC (San Francisco, CA), CSCA (Sacramento, CA), FSCA (Gainesville, FL), INHS (Urbana-Champaign, IL), MSUC (East Lansing, MI), MSUC/MAIC (Bozeman, MT), OSUC (Columbus, OH), SEMC (Lawrence, KS), USNM (Washington D.C.)

INVITED SEMINARS (19)

- 2021. "Circular polarization in *Chrysina*: understanding design rules for novel visual signals and their applications." United States Air Force Research Lab - Doolittle Institute: Nature inspired and Biotechnology University Day. October 14.
- 2021. "Structural colors in jewel beetles: analytical methods, tools, and future directions." Symposium titled "Evolution of Structural Coloration in Animals." The 2nd Asia Evo Conference (virtual, hosted by Tokyo Metropolitan University), August 16–19.
- 2021. "Structural colors: mechanisms and analyses in the jewel beetles." Natural Systems Sensing Lab, Air Force Research Laboratory, Elgin Air Force Base, Florida. March 04 (virtual).
- 2021. "Animal coloration - untangling signal complexity and utility in the colorful and visual jewel beetles." Department of Biology, University of Texas at Arlington. February 11 (virtual).
- 2021. "Color and vision in Buprestidae: Blind to blue but with genetic work-arounds." International Union of Forest Research Organizations (IUFRO) Working Party Seminar Series: Behavioral and chemical ecology of bark and woodboring insects, Visual Ecology of Forest Beetles seminar. February 04 (virtual).
- 2020. "Iridescent jewels: Integrative approaches to the studies of color in the beetle family Buprestidae." The Cambridge Entomological Club, Harvard University. October 13.

2020. "The color of jewels: demonstrations of data analysis to inform investigations of a colorful and speciose lineage of jewel beetles." Department of Entomology, Pennsylvania State University. January 17.
2018. "From chromophores to colors: evolution of vision in the Coleoptera." Department of Entomology, University of Illinois at Urbana-Champaign. December 03.
2018. "From chromophores to colors: evolution of vision in the Coleoptera." Department of Biological Sciences, SEE Division, Louisiana State University. August 27.
2018. "From chromophores to colors: evolution of vision in the Coleoptera." The Field Museum of Natural History Seminar Series. April 04.
2017. "From chromophores to colors: evolution of vision in the Coleoptera." Department of Entomology, Clemson University. October 09.
2017. "Out of the darkness: visual system innovations in beetles." Department of Entomology, Louisiana State University. January 27.
2016. "Driving forces of a superradiation: mandibular metals and visual system innovations in beetles." Department of Biology, Rutgers University. November 29.
2016. "Out of the darkness: visual system innovations in beetles." Department of Entomology & Nematology, University of Florida. October 21.
2016. "Out of the darkness: ultraviolet duplications in beetles allow for the restoration of the lost blue opsin class in Neuropteroidea." Department of Entomology, University of Georgia. September 12.
2015. "A jewel of a system: evolution and systematics of the megadiverse beetle family Buprestidae." Department of Entomology, Montana State University. April 10.
2014. "From nomenclature to next-gen: 21st century systematics." The Museum of Biological Diversity at The Ohio State University. October 8.
2014. "Metal mouths and metallic wings: evolutionary novelties lead to speciation." Department of Entomology, Michigan State University. February 21.
2008. "Systematics within the Cerylonid Series (Coleoptera: Cucujoidea)." CSIRO Divisional Seminar Series, Division of Entomology, Canberra, Australia. October 2.

PRESENTATIONS CONTRIBUTED (selected)

*graduate advisee, **undergraduate advisee

2021. Weller, H., E. Karan, S. Schwartz, and N.P. Lord. *Recolorize*: a flexible R package for color classification. Annual Meeting of the Society for Integrative and Comparative Biology. January 02 (virtual).
2021. Weir, S.E.* and N.P. Lord. Pigment identification and quantification in the Jewel Beetles (Buprestidae: Stigmoderini). Invited Symposium Poster Presentation, "The Integrative Biology of Pigment Organelles" at the Annual Meeting of the Society for Integrative and Comparative Biology. January 02 (virtual).
2021. Chow, A.* and N.P. Lord. Jewels of Iridescence: Mechanisms of Structural Color and its Significance in Insect Systematics. Student Oral Presentation at the Annual Meeting of the Society for Integrative and Comparative Biology. January 02 (virtual).
2020. Kang, I.*, S.R. Shaw, and N.P. Lord. Old World braconid wasps in tropical forests in Costa Rica (Hymenoptera: Braconidae: Cardiochilinae: *Bohayella*). Student Competition, Grad 10-minute SysEB: Biodiversity at the Annual Meeting of the Entomological Society of America (virtual).
2020. Lord, N.P., H.I. Weller, D.R. O'Sullivan, C.R. Sharkey, J.K. Robison, and B.D. Wilts. Measuring rigidity from biological fluidity: analyses of color data in taxonomic studies of jewel beetles and the release of the Insect Color Database. Poster presentation (accepted) in the Biological and bio-inspired Faraday Discussion. Cambridge, United Kingdom. July 20–22.
2020. Lord, N.P., H.I. Weller, and C.R. Sharkey. The color of jewels: demonstrations of data analysis to inform taxonomic investigations of a colorful and speciose lineage of jewel beetles (Coleoptera: Buprestidae). Annual Meeting of the Society for Integrative and Comparative Biology.
2019. Lord, N.P. From fulgorids to football helmets: color and vision in insects for science outreach. SysEB Section Symposium: Bugs in Technicolor: how color research advocates for Entomology. Annual Meeting of the Entomological Society of America. St. Louis, MO.

2019. Chow, A.* and N.P. Lord. Jewels of iridescence: mechanisms of structural color and implications for taxonomy. SysEB Section Symposium: Bugs in Technicolor: how color research advocates for Entomology. Annual Meeting of the Entomological Society of America. St. Louis, MO.
2017. Lord, N.P., R.A.B. Leschen, and M.A. Ivie. An update on the phylogeny and constitution of Zopheridae. Member Symposium: Systematics and Evolution of the Tenebrionoidea (Coleoptera). Annual Meeting of the Entomological Society of America. Denver, CO.
2016. Lord, N.P., C.R. Sharkey, and S.M. Bybee. Jewel beetle color visual systems: an investigation of visual protein and spectral diversity within a charismatic insect group. Symposium: Phylogeny and Evolution of Insect Communication Systems. XXV International Congress of Entomology, Orlando, FL.
2016. Martin, G.J.*, N.P. Lord, S.M. Bybee, and C.L. Bellamy. BuprestidID: An interactive tool for the identification of metallic wood-boring beetles (Coleoptera: Buprestidae). Symposium: Systematics, Biogeography, and Ecology of Cerambycidae and Buprestidae. XXV International Congress of Entomology, Orlando, FL.
2016. Nearn, E.H., N.P. Lord, S.W. Lingafelter, A. Santos-Silva, K.B. Miller, and J.M. Zaspel. LongicornID: A tool for identification of larval Cerambycidae. Symposium: Systematics, Biogeography, and Ecology of Cerambycidae and Buprestidae. XXV International Congress of Entomology, Orlando, FL.
2016. J.A. Robertson, A.S. Ślipiński, M.J. Moulton, F.W. Shockley, J.A. Giorgi, N.P. Lord, D.D. McKenna, W. Tomaszewska, J.A. Forrester, K.B. Miller, M.F. Whiting, and J.V. McHugh. Phylogeny and classification of Cucujoidea and the recognition of a new superfamily Coccinelloidea (Coleoptera: Cucujiformia). Symposium: Evolution, Classification, and Biology of Cucujoid Beetles (Coleoptera: Cucujoidea). XXV International Congress of Entomology, Orlando, FL.
2015. Ivie, M.A., N.P. Lord, I.A. Foley, and S.A. Ślipiński. The genera of New World Colydiinae (Coleoptera: Zopheridae). The Fourth International Tenebrionoidea Symposium. Mendoza, Argentina.
2015. Lord, N.P., R.L. Plimpton, and S.M. Bybee. Jewel beetle color visual systems: from residues to reflectance spectra. The Annual Meeting of the Entomological Society of America, Minneapolis, MN.
2014. Lord, N.P., A. Suvorov*, G.J. Martin*, J.P. Lelito, and S.M. Bybee. The first visual transcriptomes of the jewel beetles (Coleoptera: Buprestidae), including the emerald ash borer (EAB: *Agrilus planipennis* Fairmaire), with evidence of multiple opsin copies and sexual dimorphisms. The Annual Meeting of the Entomological Society of America, Portland, OR.
2013. Lord, N.P., R.A.B. Leschen, and T.R. Buckley. NZ ZopherID: A comprehensive electronic tool to a taxonomically difficult group of New Zealand beetles. SysEB Section Symposium: Interactive Keys Transforming Identification: Melding Traditional Methods with New Technologies. Annual Meeting of the Entomological Society of America, Austin, TX.
2013. Lord, N.P. and K.B. Miller. An ironclad family? The first phylogeny of Zopheridae (Coleoptera: Tenebrionoidea) based on molecular data. SysEB Member Symposium: Taxonomy and Systematics within the Tenebrionoidea (Coleoptera). Annual Meeting of the Entomological Society of America, Austin, TX.
2013. Ivie, M.A., I.A. Foley, and N.P. Lord. *Phreatus* – What is it? SysEB Member Symposium: Taxonomy and Systematics within the Tenebrionoidea (Coleoptera). Annual Meeting of the Entomological Society of America, Austin, TX.
2013. Nearn, E.H., N.P. Lord, S.W. Lingafelter, and A. Santos-Silva. Developing Longicorn ID: Tool for diagnosing cerambycid families, subfamilies, and tribes. SysEB Section Symposium: Interactive Keys Transforming Identification: Melding Traditional Methods with New Technologies. Annual Meeting of the Entomological Society of America, Austin, TX.
2013. Lord, N.P., J.V. McHugh, J.P. Shields, and K.B. Miller. Heavy metals in beetle mandibles: the first comprehensive analysis of incorporation, with evolutionary origins and implications. 10-minute Student Paper Competition at the Annual Meeting of the Entomological Society of America, Austin, TX.
2012. Lord, N.P. The trials and tribulations of hunting Bothrideridae and Zopheridae. SysEB Section Symposia: Ecology and Conservation of Saproxylic Insects. Annual Meeting of the Entomological Society of America, Knoxville, TN.
2012. Lord, N.P. and K.B. Miller. Not so ironclad (beetles): The first large-scale phylogeny of the family Zopheridae (Coleoptera: Tenebrionoidea). 10-minute Student Paper Competition at the Annual Meeting of the Entomological Society of America, Knoxville, TN.
2012. Leschen, R., T. Buckley, K. Marske, and N.P. Lord. Local variation, species, and biogeography of New Zealand beetles. International Congress of Entomology (ICE) Meeting, Daegu, Korea.

2011. Lord, N.P., R.A.B. Leschen, and Buckley, T. From Broun to Bayesian: morphological and molecular investigations of the Zopheridae of New Zealand. SysEB Section Symposia: Taxonomy and Systematics of the Tenebrionoidea (Coleoptera). Annual Meeting of the Entomological Society of America, Reno, NV.
2010. Lord, N.P., K.B. Miller, and J.V. McHugh. Bothrideridae: The ectoparasitic, cocoon-forming beetles. SysEB Section Symposium: Systematics of the Cerylonid Series of Cucujoidea (Coleoptera). Annual Meeting of the Entomological Society of America, San Diego, CA.
2010. Lord, N.P., E.H. Nearn, and K.B. Miller. Systematics in the 21st century: Developing LUCID keys to enhance taxonomy. Entomological Collections Network Annual Meeting, San Diego, CA.
2009. Lord, N.P., J.V. McHugh, and K.B. Miller. Analytical microscopy methods reveal new morphological characters and physiological properties in beetle mandibles. 10-minute Student Paper Competition at the Annual Meeting of the Entomological Society of America, Indianapolis, IN. December 13–16.
2008. Lord, N.P. A taxonomic revision of the genus *Deretaphrus* Newman (Coleoptera: Bothrideridae). E. Broadus Browne Research Award Competition for the College of Agriculture and Environmental Sciences, University of Georgia, Athens, GA.
2008. Lord, N.P. Bothrideridae: Some of the coolest beetles you've never heard of, with a revision of the genus *Deretaphrus* Newman. M.S. Student Paper Competition at the Southeastern Branch of the Entomological Society of America Annual Meeting, Jacksonville, FL.
2007. Lord, N.P. Patronymy For Sale: A schema for the potential benefit and assistance to taxonomic research. Graduate Committee Student Symposium: NSF PEET VI Meeting, Athens, GA.
2005. Lord, N.P. Molecular phylogeny of minute scavenger beetles (Coleoptera: Latridiidae): Specks at the bottom of the bag. NSF Research Presentation: Integrative Biology Dept., Brigham Young University, Provo, UT.

TEACHING EXPERIENCE

Louisiana State University (Instructor of Record)

- Honors College: Critical Analysis—Paradise Lost? (HNRS 2000; Fall 2022)
- Insect Taxonomy (ENTM 4005; Spring 2021, Spring 2020, Spring 2019)
- General Entomology (ENTM 7001; Fall 2021, Fall 2020, Fall 2019, Fall 2018)
- Insects and the Environment (ENTM 2001; Fall 2019)
- Special Topics: Molecular Methods in Entomology (ENTM 7008; Summer 2022)
- Special Topics: Advanced Insect Identification (ENTM 7008; Fall 2021, Fall 2020)
- Special Topics: Light, Color, and Vision in Biology (ENTM 7008 / BIOL 7901; Spring 2020, Fall 2022)

Georgia College & State University (Instructor of Record)

- Principles of Biology I (Cell Biology; BIOL 1107; Fall 2017), lecture and labs.
- Principles of Biology II (Organismal Biology; BIOL 1108; Spring 2018, Spring 2017), lecture and labs.
- Biological Systematics (BIOL 4410/5410; Spring 2018)
- Invertebrate Zoology (BIOL 4500/5500; Fall 2017), lecture and labs.
- Biodiversity (BIOL 1120, two sections; Fall 2016)
- General Entomology and Laboratory (BIOL 4460/5460; Fall 2016)
- Independent Study: Service Learning in Entomology (BIOL 4940; Spring 2017)
- Undergraduate Seminar (BIOL 3000; Spring 2018). Spring Semester.

Instructor: Workshops / Specialty Courses

2018. Digital Illustration: A Primer for Vector-Based Graphics. Department of Entomology, University of Georgia. February 16.
2017. Organization of Tropical Studies Graduate Program course: Ecology and Evolution of Coleoptera (Beetles). La Selva Biological Station, Costa Rica. June 5–24.
2016. Beetles of the World - Taxonomic Training in Adults and Larvae. Montana State University, Bozeman, MT, June 12–21.

2016. Taxonomic Training to Identify the Emerald Ash Borer and Asian Longhorned Beetle. Colorado Department of Agriculture and the International Society of Arboriculture. Westminster, CO, March 23–24.
2015. Cerambycidae and Buprestidae Survey and Identification Workshop, USDA & Department of Biology, University of Massachusetts, Amherst, MA, August 12–13. *Recipient of the USDA CAPS Recognition Award.*

GRADUATE STUDENT MENTORSHIP

Major Advisor, Ph.D.

Ilgoo Kang, Summer 2018–Fall 2020
Devon Brits, Fall 2019–Fall 2021

Major Advisor, M.S.

Able Chow, Fall 2018–present
Sierra Weir, Summer 2020–Fall 2021

Co-Advisor

Carlos Wiggins, M.S., Entomology (with R. Diaz), Spring 2019–Fall 2021
Nathan Arey, M.S., Entomology (with J. Davis), Summer 2020–Summer 2022

Graduate Committee Member

Samantha Rutledge, Ph.D., Biology (Advisor: N. Mason), 2022–present
Kaylee Deynzer, M.S., Horticulture (Advisor: K. Fontenot), 2020–present
Tanner Sparks, Ph.D., Entomology (Advisor: R. Diaz), 2021–present
Roberta Canton, Ph.D., Biology (Advisors: B. Faircloth and R. Brumfield), 2021–present
Ben Aker, M.S., Entomology (Advisor: L. Foil), 2018–2020
Darrius Davis, M.S., Entomology (Advisor: L. Foil), 2018–2020
C.J. Fellows, Ph.D., Entomology (Advisor: D. Swale), 2020–present
Scott Lee, Ph.D., Entomology (Advisor: J. Davis), 2018–present
Joseph McCarthy, M.S., Entomology (Advisor: K. Sun), 2020–present
Korey Pham, Ph.D., Entomology (Advisor: K. Healy), 2019–present
Noura Saleh, M.S., Civil and Environmental Engineering (Advisor: H. Lin), 2019–2020

UNDERGRADUATE STUDENT MENTORSHIP

Louisiana State University

Payton Floyed, Fall 2021–Summer 2022
Declan Wilson, Spring 2022–present
Wayne “Trey” Guillot, Spring 2019–Summer 2020
Ella Robison, Spring 2020

Georgia College & State University

Alexis Allen, Fall 2017–Spring 2018	Stephanie Forsman, Fall 2016–Spring 2018
Matthew Brady, Fall 2016–Spring 2017	Caroline Fowler, Spring 2017–Spring 2018
Nicholas Buchanan, Fall 2016–Spring 2017	Hallie Jowers, Fall 2016–Spring 2017
Payton Burriss, Fall 2016–Fall 2017	Kariann Lamon, Spring 2017–Spring 2018
Benjamin Cross, Fall 2016–Fall 2017	Peyton Miner, Fall 2016–Fall 2017
Dorianna Dobson, Fall 2016–Spring 2018	Jordan Yacoub, Fall 2017–Spring 2018

PROFESSIONAL SERVICE

Society Officer

2018–2020. Councilor, Executive Board, The Coleopterists Society. Elected position.
2011–2012. Student Councilor, Executive Board, The Coleopterists Society. Elected position.

Committees

2020. Awards Committee External Member, Systematics, Evolution, and Biodiversity Section of the Entomological Society of America. Appointed position.
2015–2016. Nomination Committee, The Coleopterists Society. 2015–2016. Appointed position.
2007. Graduate Student Committee, NSF PEET grant meeting VI. 2007. Appointed position.

Editorial Board

- 2017–present. Insect Systematics and Evolution

Review Editor

- 2016–present. Frontiers In Ecology and Evolution: Phylogenetics, Phylogenomics, and Systematics
2014–2015. The Coleopterists Bulletin

Subject Editor

- 2014–present. InsectaMundi (Buprestoidea, Cucujoidea, Tenebrionoidea)
2012–2015. Zootaxa (Cucujiformia, incl. Cucujoidea and Tenebrionoidea)

Journal Referee (18 journals)

Acta Entomologica Musei Nationalis Pragae, Annals of the Entomological Society of America, Arthropod Structure and Development, Arthropod Systematics and Phylogeny, Banisteria, Biomimetics, BMC Genomics, Deutsche Entomologische Zeitschrift, Insect Systematics and Evolution, Japanese Journal of Systematic Entomology, Molecular Ecology, Proceedings of the Entomological Society of Washington, Systematic Biology, Systematic Entomology, The Coleopterists Bulletin, The New Zealand Entomologist, ZooKeys

Symposium Co-Organizer

2013. Member Symposium during the Entomological Society of America Annual Meeting, 2013 in Austin, TX. Title: Taxonomy and Systematics within the Tenebrionoidea (Coleoptera).

UNIVERSITY & DEPARTMENTAL SERVICE

Louisiana State University

- Summer 2021–present. College of Agriculture Faculty Policy Committee member.
Spring 2020–present. College of Agriculture Faculty Council representative. Elected position.
Spring 2019–present. Departmental Undergraduate Curriculum and Research Committee,
Spring 2019–Summer 2022. Departmental Space Committee
Spring 2021–Summer 2022. Departmental Website Committee
Fall 2018–present. Faculty Advisor, Entomology Club
Fall 2018–present. Departmental Student and Faculty Awards Committee
Fall 2018–present. Departmental representative, College of Agriculture Student Scholarship Committee
Fall 2018–present. University delegate, Organization for Tropical Studies (permanent member institution)

Georgia College & State University

- 2017–2018. Honors Program Council
2016–2018. Undergraduate Curriculum Committee
2016–2018. Georgia College Natural History Museum Committee
2016–2017. Academic Coordinating Council Advisory Committee

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science, American Entomological Society, Beta Beta Beta Biology Honor Society, Center for Systematic Entomology, The Coleopterists Society, Council on Undergraduate Research, Entomological Society of America, The Explorers Club, Georgia Entomological Society, Sigma Xi Honor Society, Society for Integrative and Comparative Biology, Society of Systematic Biologists, Willi Hennig Society.

MEDIA COVERAGE OF RESEARCH OUTPUT

Louisiana State University

- 2022. "LSU AgCenter entomologists studying issues facing honey bees by Craig Gautreaux. *LSU AgCenter YouTube*, 11 February 2022 ([link](#))
- 2022. "AgCenter research examines how viruses affect honey bees' vision" by Olivia McClure. *LSU AgCenter Articles*, 31 January 2022 ([link](#))
- 2020. "LSU grad student names newly discovered wasp after Joe Burrow" by Kevin Barnhart. *WWL.com*, 17 December 2020 ([link](#))
- 2020. "Newly identified wasp named after Joe Burrow" by Kenneth Gautreaux. *LSU AgCenter Articles*, 03 December 2020 ([link](#))
- 2020. New Faculty Profile: "Childhood fascination turns into globe-trotting career for Nathan Lord" by Tobie Blanchard. *Louisiana Agriculture Magazine*, 63 (2): 9, Spring 2020
- 2019. "Researchers study role of color in jewel beetles" by Kenneth Gautreaux. *LSU AgCenter Articles*, 12 June 2019 ([link](#))
- 2018. "LSU AgCenter entomologist receives grant to study vision, color of jewel beetles" by Tobie Blanchard. *LSU AgCenter Newsletter*, 18 September 2018 ([link](#))

Georgia College

- 2017. "Georgia College students use wasps to locate tree-eating beetle" by Brittany Johnson. *Georgia College FrontPage*, 09 October 2017 ([link](#))
- 2017. "Local college uses wasps to track beetles to save ash trees" by Evan Watson. Fox24 ABC16 WGXA, 21 September 2017 ([link](#))
- 2017. "Ending the threat: GC biologists work to protect ash trees" by Will Woolever. *The Union Recorder*, 23 February 2017 ([link](#))
- 2017. "Students work to stop ash beetle infestation" by Jobie Peeples. *Channel 13 WMAZ*, 21 February 2017 ([link](#))
- 2017. "GCSU leading research in Georgia's pest problem" by Joi Dukes. *Channel 41 NBC WGMT*, 15 February 2017 ([link](#))
- 2017. "Experts: Tree-killing beetle infestation creeping further into Georgia" by Adrienne Haney. NBC 11 Alive Atlanta WXIA, 14 February 2017 ([link](#))
- 2017. "Lord of the Beetles: Bad bug just miles away. Georgia College professor and students battle tree-eating beetle" by Cindy O'Donnell. *Georgia College FrontPage*, 14 February 2017 ([link](#))

Brigham Young University

- 2016. "BYU researchers on the brink of stopping tree-eating beetles" by Abby Hobbs. *Deseret News*, 16 July 2016 ([link](#))
- 2016. "BYU research could aid fight to stop invasive emerald ash borer" by Braley Dodson. *The Daily Herald*, 04 July 2016 ([link](#))
- 2016. "Beetles are coming to eat all our trees. Their eyes may be the key to stopping them" by Todd Hollingshead. *BYU News*, 30 June 2016 ([link](#))
- 2014. "On the hunt for fireflies in Utah" by Kristen Munson, *High Country News*, September 2014 ([link](#))

EXHIBITIONS AND MEDIA COVERAGE

- 2022. *Iridescence: Interdisciplinary Inspiration* Co-Curator. Capsule exhibition of larger LASM *Iridescence* exhibition, highlighting art and science collaboration. Boyce Gallery at the College of Art & Design, Louisiana State University
- 2021–2022. Creative director of *Iridescence*, a featured exhibition at the Louisiana Art & Science Museum, Baton Rouge. This exhibition features the scientific works of Dr. Nathan Lord and his graduate students, invited works from renowned artists, and a juried competition ([link](#)).
- 2022. "Nathan Lord X Louisiana Art & Science Museum: *Iridescence*." Artist feature by *Blazing Editions Fine Art Printmaking* ([link](#))
- 2021. "'Nature does have this profound beauty,' Art and science intersect in exhibit highlighting LSU lab" by Dominic Purdy. *The Reveille*, 23 November 2021 ([link](#))
- 2021. "Iridescence: bringing art and science together" by RFDTV.com, 27 September 2021 ([link](#))
- 2021. "Iridescent insects featured in art exhibit" by Kenneth Gautreaux. *LSU AgCenter*, 23 September 2021 ([link](#))
- 2021. "Louisiana Art & Science Museum announces newest exhibition, 'Iridescence'" *ArtDaily.com* ([link](#))
- 2021. "What to expect at LASM's 'Iridescence' exhibition opening July 17" by Elise Saloom. *inRegister*, 16 July 2021 ([link](#))
- 2021. "Watch a live art installation this week with Louisiana Art and Science Museum's 'Iridescence'" by Olivia Deffes. *225 Magazine*, 15 September ([link](#))

EXTENSION ACTIVITIES AND OUTPUT

- 2022. "Catching catfish and fighting off worms: two stories on animal species in Louisiana." Radio interview and web article, by Karen Henderson. *Louisiana Considered*, 89.3 WRKF in Baton Rouge and 89.9 WWNO in New Orleans, 06 June ([link](#))
- 2022. "LSU AgCenter warns of invasive worm that could harm people, plants" by WDSU Digital Team. WDSU News 6, 09 May ([link](#))
- 2022. "Hammerhead worms on the rise in Louisiana" by Johnny Morgan. *LSU AgCenter Articles*, 06 May ([link](#))
- 2020. "Cat-furred caterpillars may look warm and fuzzy, but don't dare touch them" by Celeste Turner. *The New Orleans Advocate*, 18 September ([link](#))
- 2020. 4-H University Superintendent, Entomology Competition
- 2020. LSU AgCenter LIVE at 5 Facebook Series ([link](#))
- 2020. "Color of Jewels: Studies of Beetle Coloration Shed Light on Insect Sight and Communication" by Nathan Lord. *Louisiana Agriculture Magazine*, 63 (2): 10–13, Spring 2020 ([link](#))
- 2020. "Asian hornet not in Louisiana" by Bruce Schultz / LSU AgCenter. 08 May ([link](#))
- 2020. "Officials: No Murder Hornets in Louisiana" by BIZ Magazine, 09 May ([link](#))
- 2020. "Staying inside doesn't mean you can't study science" by Johnny Morgan. *LSU AgCenter Articles*, 20 March ([link](#))
- 2019. "Night at the Museum: Louisiana State Arthropod Museum" by Tobie Blanchard. *LSU AgCenter YouTube*, 24 September 2019 ([link](#))
- 2019. "LSU AgCenter agents attend refresher courses" by Johnny Morgan. *LSU AgCenter Articles*, 03 June 2019 ([link](#))
- 2019. Louisiana Delta Crop Podcast by R.L. Frazier, Dennis Burns, Mylie Miller. *LSU AgCenter*, 22 June 2019 ([link](#))