

Andrew D. Sweet, Ph.D.

Curriculum Vitae

Assistant Professor | Department of Biological Sciences | Arkansas State University
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EDUCATION

- 2018 Ph.D. Ecology, Evolution, and Conservation Biology.
University of Illinois, Urbana, IL. Advisor: Dr. Kevin P.
Johnson
- 2012 B.S. Biology. Grove City College, Grove City, PA.

PROFESSIONAL APPOINTMENTS

- 2021-Present Assistant Professor of Evolutionary Biology, Dept. of Biological
Sciences, Arkansas State University, Jonesboro, AR.
- 2019-2020 NSF Postdoctoral Fellow. Dept. of Entomology, Purdue
University, West Lafayette, IN.
- 2018- 2019 Postdoctoral Research Associate. Dept. of Entomology, Purdue
University, West Lafayette, IN.
- 2018-Present Research Affiliate. Illinois Natural History Survey, Prairie
Research Institute, University of Illinois, Urbana, IL.

GRANTS AND FELLOWSHIPS (amounts given in USD)

- 2023 Memphis Zoo. Conservation Action Network Grant. Diversity and
host-sharing in ectoparasitic lice of flamingos at the Memphis Zoo.
\$3,975.
- 2023 The Kays Foundation Grant. Application of cutting-edge molecular
techniques for assessing insect biodiversity in northeast Arkansas.
\$12,223.19.
- 2022 Arkansas Game and Fish Commission State Wildlife Grant.
Phylogenomic evaluation and conservation genomics of the Ouachita
River population of the *Notropis rubellus* species group. \$117,665. Co-
PIs: Brook Fluker and **Andrew Sweet**.

- 2022 National Science Foundation. NRT-URoL: UandI-DEECODE: Understanding Invasion and Disease Ecology and Evolution through Computational Data Education (DGE-2151820). PI: Travis D. Marsico. Co-PIs: Emily S. Bellis, Jake Qualls, Kyle Gustafson, Asela Wijeratne. Senior Personnel: Christy Brinkley, Than Boves, Scott A. Mangan, Lorin Neuman-Lee, **Andrew Sweet**
- 2022 INBRE Shared Equipment Grant. Acquisition of equipment to enhance genomic infrastructure at Arkansas State University. \$26,395. PIs: **Andrew Sweet**, Kyle Gustafson, Scott Mangan, Asela Wijeratne.
- 2021 Faculty Research Fund. Islands with islands: Correlated genetic structure between mainland and Caribbean populations of common ground-doves and their parasitic lice. \$9,001.
- 2021 INBRE Core Voucher. Hybridization of parasites from hosts in novel environments. \$4,992.
- 2021 ABI Seed Grant. Abundance and dispersal of an ectoparasite across different landscapes in Arkansas. \$70,000. PI: **Andrew Sweet**
- 2020 National Science Foundation. Do tolerant host amplify the threat of invasive parasites? Darwin's finches, mockingbirds, and nest flies (DEB-2025085). PI: Dale H. Clayton, co-PIs: Frederick R. Adler and Sarah E. Bush. Senior Personnel: **Andrew Sweet**.
- 2019 NSF Postdoctoral Research Fellowship in Biology (\$138,000).
- 2019 Systematics Association Fund Grant (\$1,218) [declined]
- 2017 Dissertation Completion Fellowship, University of Illinois (\$20,000)
- 2017 Clark Summer Fellowship, University of Illinois (\$4,684)
- 2015 American Ornithologists' Union Student Research Award (\$2,500)
- 2014 Herbert Holdsworth Ross Memorial Fund, University of Illinois (\$1,500)
- 2014 Francis M. and Harlie M. Clark Research Support Grant, University of Illinois (\$1,000)
- 2014 Graduate College Dissertation Research Travel Grant, University of Illinois (\$4,500)

AWARDS

- 2023 Honors Professor of the Year. Arkansas State University
- 2015 Teacher Ranked as Excellent, University of Illinois
- 2014 Graduate Teacher Certificate, Center for Innovation in Teaching and Learning, University of Illinois
- 2014 American Ornithologists' Union Student Membership Award
- 2013 Teacher Ranked as Outstanding, University of Illinois
- 2012 Teacher Ranked as Outstanding, University of Illinois
- 2012 Outstanding Senior Biology Major Award, Grove City College

PUBLICATIONS (Google Scholar Webpage)

* undergraduate student co-author

Peer-Reviewed Publications

40. Matthews, A.E., A.J. Wijeratne, **A.D. Sweet**, F.A. Hernandez, D.P.L. Toews, and T.J. Boves. 2023. Dispersal-limited symbionts exhibit unexpectedly wide variation in host specificity. *Systematic Biology*.
<https://doi.org/10.1093/sysbio/syad014>.
39. **Sweet, A.D.**, D.R. Browne, A.G. Hernandez, K.P. Johnson, and S.L. Cameron. Draft genome assemblies of the avian louse *Brucelia nebulosa* and its associates using long-read sequencing from an individual specimen. *G3 Genes | Genomes | Genetics*. 13(4): jkad030. <https://doi.org/10.1093/g3journal/jkad030>.
38. **Sweet, A.D.** and D.A.C. Stanford-Beale. 2022. Thrips (Insecta: Thysanoptera) associated with two species of live birds (*Cardinalis cardinalis* and *Zenaidura macroura*) in northeast Arkansas. *Southeastern Naturalist*. 21: N37-N42.
<https://doi.org/10.1656/058.021.0305>.
37. **Sweet, A.D.**, K.P. Johnson, and S.L. Cameron. 2022. Independent evolution of highly variable, fragmented mitogenomes of parasitic lice. *Communications Biology*. 5: 677. <https://doi.org/10.1038/s42003-022-03625-0>
36. Virrueta Herrera, S., K.P. Johnson, **A.D. Sweet**, E. Ylinen, M. Kunnasranta, and T. Nyman. 2022. High levels of inbreeding with spatial and host-associated structure in lice of an endangered freshwater seal. *Molecular Ecology*. 31: 4593-4606. <https://doi.org/10.1111/mec.16569>.
† **Cover Article**
35. Starkie, M.L., S.L. Cameron, M.N. Krosch, M.J. Phillips, J.E. Royer, M.K. Schutze, F. Strutt, **A.D. Sweet**, M.P. Zalucki, and A.R. Clarke. 2022. A dated phylogeny of the Australian Dacini fruit flies (Diptera: Tephritidae). *Molecular Phylogenetics and Evolution*. 172: 107481.
<https://doi.org/10.1016/j.ympev.2022.107481>.
34. Boyd, B.M., N.-P. Nguyen, J.M. Allen, R. Waterhouse, K.B. Vo, **A.D. Sweet**, D.H. Clayton, S.E. Bush, M.D. Shapiro, and K.P. Johnson. 2022. Long-distance dispersal of pigeons and doves generated new ecological opportunities for host-switching and adaptive radiation by their parasites. *Proceedings of the Royal Society B*. 289: 20220042.
<https://doi.org/10.1098/rspb.2022.0042>.

33. Smith, A.D., M.J. Kamiński, K. Kanda, **A.D. Sweet**, J.L. Betancourt, C.A. Holmgren, E. Hempel, F. Alberti, and M. Hofreiter. 2021. Recovery and analysis of ancient insect DNA from subfossil packrat middens using high-throughput sequencing. *Scientific Reports*. 11: 12635. <https://doi.org/10.1038/s41598-021-91896-8>.
32. **Sweet, A.D.**, K.P. Johnson, Y. Cao, R.S. de Moya, R.K. Skinner, M. Tan, S. Virrueta-Herrera, and S.L. Cameron. 2021. Structure, gene order, and nucleotide composition of mitochondrial genomes in parasitic lice from Amblycera. *Gene*. 768: 145312. <https://doi.org/10.1016/j.gene.2020.145312>.
31. de Moya, R.S., K. Yoshizawa, K.K.O. Walden, **A.D. Sweet**, C.H. Dietrich, and K.P. Johnson. 2021. Phylogenomics of parasitic non-parasitic lice (Insecta: Psocodea): combining sequence data and exploring compositional bias solutions in Next Generation Datasets. *Systematic Biology*. 70: 719-738. <https://doi.org/10.1093/sysbio/syaa075>.
30. Najer, T., I. Papousek, O. Sychra, **A. Sweet**, and K. Johnson. 2021. Combining nuclear and mitochondrial loci provides phylogenetic information in the *Philopterus* complex of lice. *Journal of Medical Entomology*. 58: 252-260. <https://doi.org/10.1093/jme/tjaa166>.
29. Doña, J., **A.D. Sweet**, and K.P. Johnson. 2020. Comparing rates of introgression in parasitic feather lice with differing dispersal capabilities. *Communications Biology*. 3: 610. <https://doi.org/10.1038/s42003-020-01345-x>.
28. **Sweet, A.D.**, R.E. Wilson, S.A. Sonsthagen, and K.P. Johnson. 2020. Lousy grouse: comparing evolutionary patterns in Alaska galliform lice to understand host evolution and host-parasite interactions. *Ecology and Evolution*. 10(15): 8379-8393. <https://doi.org/10.1002/ece3.6545>.
27. **Sweet, A.D.**, K.P. Johnson, and S.L. Cameron. 2020. Mitochondrial genomes of *Columbicola* feather lice are highly fragmented, indicating repeated evolution of minicircle-type genomes in parasitic lice. *PeerJ*. 8: e8759. <https://doi.org/10.7717/peerj.8759>.
26. Virrueta-Herrera, S., **A.D. Sweet**, J.M. Allen, K.K.O. Walden, J.D. Weckstein, and K.P. Johnson. 2020. Extensive *in situ* radiation of feather lice on tinamous. *Proceedings of the Royal Society B*. 287: 20193005. <https://dx.doi.org/10.1098/rspb.2019.3005>.

25. Tyagi, K., R. Chakraborty, S.L. Cameron, **A.D. Sweet**, K. Chandra, and V. Kumar. 2020. So few thrips, so many mitochondrial genome rearrangements: Expanded sampling reveals extensive genomic evolution within Thysanoptera. *Scientific Reports*. 10: 695. <https://doi.org/10.1038/s41598-020-57705-4>.
24. Skinner, R.K., C.H. Dietrich, K.K.O. Walden, E. Gordon, **A.D. Sweet**, L. Podsiadlowski, M. Petersen, C. Simon, D.M. Takiya, and K.P. Johnson. 2020. Phylogenomics of Auchenorrhynca (Insecta: Hemiptera) using transcriptomes. *Systematic Entomology*. 45(1): 85-113. <https://doi.org/10.1111/syen.12381>.
23. de Moya, R.S., J.M. Allen, **A.D. Sweet**, K.K.O. Walden, R.L. Palma, V.S. Smith, S.L. Cameron, M.P. Valim, T.D. Galloway, J.D. Weckstein, and K.P. Johnson. 2019. Extensive host-switching of avian lice following the Cretaceous-Paleogene mass extinction. *Communications Biology*. 2: 445. <https://doi.org/10.1038/s42003-019-0689-7>.
22. de Moya, R.S., Weirauch, C., **A.D. Sweet**, R. Skinner, K.K.O. Walden, D.R. Swanson, C. Dietrich, and K.P. Johnson. 2019. Deep instability in the phylogenetic backbone of Heteroptera is only partly overcome by transcriptome-based phylogenomics. *Insect Systematics and Diversity*. 3: 7. <https://doi.org/10.1093/isd/ixz020>.
21. de Moya, R.S, J.K. Brown, **A.D. Sweet**, K.K.O. Walden, J.R. Paredes-Montero, R.M. Waterhouse, and K.P. Johnson. 2019. Nuclear orthologs derived from whole genome sequencing indicate cryptic diversity in the *Bemisia tabaci* (Insecta: Aleyrodidae) complex of whiteflies. *Diversity*. 11: 151. <https://doi.org/10.3390/d11090151>.
20. Nowak, J.E.*†, **A.D. Sweet**†, J.D. Weckstein, and K.P. Johnson. 2019. A molecular phylogenetic analysis of the genera of fruit doves and allies using dense taxonomic sampling. *Illinois Natural History Survey Bulletin*. 42: 2019001.
† Contributed equally to the work
19. Leonardi, M.S., S. Virrueta Herrera, **A. Sweet**, J. Negrete, and K.P. Johnson. 2019. Phylogenomics and population genomics of seal lice. *Systematic Entomology*. 44(4): 699-708. <https://doi.org/10.1111/syen.12350>.
18. Catanach, T.A.†, **A.D. Sweet**†, N.D. Nguyen, R.M. Peery, A.H. Debevec, A.K. Thomer, A.C. Owings, B.M. Boyd, A.D. Katz, F.N. Soto-Adames, and J.M. Allen. 2019. Fully automated sequence alignment methods are comparable to, and much faster than, traditional methods in large data sets: an example with hepatitis B virus. *PeerJ*. 7:e6142. <https://doi.org/10.7717/peerj.6142>.
† Contributed equally to the work

17. **Sweet, A.D.** and K.P. Johnson. 2018. The role of parasite dispersal in shaping a host-parasite system at multiple timescales. *Molecular Ecology*. 27: 5104-5119. <http://dx.doi.org/10.1111/mec.14937>.
16. Johnson, K.P., N. Nguyen, **A.D. Sweet**, B.M. Boyd, T. Warnow, and J.M. Allen. 2018. Simultaneous radiation of bird and mammal lice following the K-Pg boundary. *Biology Letters*. 14(5). <https://doi.org/10.1098/rsbl.2018.0141>.
15. Soto, J., G. Londono, K.P. Johnson, J.D. Weckstein, J.E. Avendano, J. Jankowski, T.A. Catanach, **A.D. Sweet**, and J.M. Allen. 2018. Composition and distribution of lice (Insecta: Phthiraptera) on Colombian and Peruvian birds: New data on host-lice association in the Neotropics. *Biodiversity Data Journal*. 6: e21635. <https://doi.org/10.3897/BDJ.6.e21635>.
14. Sangster, G., **A.D. Sweet**, and K.P. Johnson. 2018. *Paraclaravis*, a new genus for the Purple-winged and Maroon-chested Ground-doves (Aves: Columbidae). *Zootaxa*. 4461(1): 134-140. <http://dx.doi.org/10.11646/zootaxa.4461.1.10>.
13. **Sweet, A.D.**, S.E. Bush, D.R. Gustafsson, J.M. Allen, E. DiBlasi, H.R. Skeen, J.D. Weckstein, and K.P. Johnson. 2018. Host and parasite morphology influence congruence between host and parasite phylogenies. *International Journal for Parasitology*. 48: 641-648. <https://doi.org/10.1016/j.ijpara.2018.01.007>.
 † **Editor's Choice**
12. **Sweet, A.D.**, B.M. Boyd, J.M. Allen, S.M. Villa, M.P. Valim, J.L. Rivera-Parra, R.E. Wilson, and K.P. Johnson. 2018. Integrating phylogenomic and population genomic patterns in avian lice provides a more complete picture of parasite evolution. *Evolution*. 72(1): 95-112. doi/10.1111/evo.13386/full.
11. Yoshizawa, K., K.P. Johnson, **A.D. Sweet**, I. Yao, R.L. Ferreira, and S.L. Cameron. Mitochondrial phylogenomics and genome rearrangements in the barklice (Insecta: Psocodea). 2017. *Molecular Phylogenetics and Evolution*. 119: 118-127. doi.org/10.1016/j.ympbev.2017.10.014.
10. Doña, J., **A.D. Sweet**, K.P. Johnson, D. Serrano, S. Mironov, and R. Jovani. 2017. Cophylogenetic analyses reveal extensive host-shift speciation in a highly specialized and host-specific symbiont system. *Molecular Phylogenetics and Evolution*. 115: 190-196. <https://doi.org/10.1016/j.ympbev.2017.08.005>.
9. **Sweet, A.D.**, R.T. Chesser, and K.P. Johnson. 2017. Comparative cophylogenetics of Australian phabine pigeons and doves (Aves: Columbidae) and their feather lice (Insecta: Phthiraptera). *International Journal for Parasitology*. 47: 347-356. doi:10.1016/j.ijpara.2016.12.003.

8. Boyd, B.M., J.M. Allen., N. Nguyen, **A.D. Sweet**, T. Warnow, M.D. Shapiro, S.M. Villa, S.E. Bush, D.H. Clayton, and K.P. Johnson. 2017. Phylogenomics using target-restricted assembly resolves intra-generic relationships of parasitic lice (Phthiraptera: Columbicola). *Systematic Biology*. 66(6): 896-911. doi.org/10.1093/sysbio/syx027.
7. **Sweet, A.D.**, J.D. Maddox, and K.P. Johnson. 2017. A complete molecular phylogeny of *Claravis* confirms its paraphyly within small New World ground-doves (Aves: Peristerinae) and implies multiple plumage state transitions. *Journal of Avian Biology*. 48: 459-464. doi:10.1111/jav.01077.
6. **Sweet, A.D.** and K.P. Johnson. 2016. Cophylogenetic analysis of New World ground-doves (Aves: Columbidae) and their parasitic wing lice (Insecta: Phthiraptera: Columbicola). *Molecular Phylogenetics and Evolution*. 103: 122-132. doi.org/10.1016/j.ympev.2016.07.018.
5. Boyd, B.M., J.M. Allen, R. Koga, T. Fukatsu, **A.D. Sweet**, K.P. Johnson, and D.L. Reed. 2016. Two bacteria, *Sodalis* and *Rickettsia*, associated with the seal louse *Proechinophthirus fluctus* (Phthiraptera: Anoplura). *Applied and Environmental Microbiology*. 82(11): 3185-3197. doi:10.1128/AEM.00282-16.
4. **Sweet, A.D.**, B.M. Boyd, and K.P. Johnson. 2016. Cophylogenetic patterns are uncorrelated between two lineages of parasites on the same hosts. *Biological Journal of the Linnean Society*. 118(4): 813-828. https://doi.org/10.1111/bij.12771.
3. Escalante, G.C.*, **A.D. Sweet**, K.G. McCracken, D. Gustaffson, R. Wilson, and K.P. Johnson. 2016. Patterns of cryptic host specificity in duck lice based on molecular data. *Medical and Veterinary Entomology*. 30(2): 200-208. doi:10.1111/mve.12157.
2. **Sweet, A.D.** and K.P. Johnson. 2015. Patterns of diversification in small New World ground doves are consistent with major geologic events. *The Auk*. 132: 300-312. https://doi.org/10.1642/AUK-14-193.1.
1. **Sweet, A.D.**, J.M. Allen, and K.P. Johnson. 2014. Novel primers from informative nuclear loci for louse molecular phylogenetics (Insecta: Phthiraptera). *Journal of Medical Entomology*. 51(6): 1122-1126. https://doi.org/10.1603/ME13218.

Manuscripts in Review

Starkie, M.L., S.L. Cameron, M.N. Krosch, **A.D. Sweet**, and A.R. Clarke.
Biogeographic influences on the evolution and historical dispersal of the Australo-Pacific Dacini fruit flies (Tephritidae: Dacinae). In Review.

TEACHING EXPERIENCE

Instructor

Arkansas State University (2021-Present)

BIO 1303: Biology of Animals
BIO 3013: Genetics
BIO 3011: Genetics Laboratory
BIO 4021: Biological Seminar
BIO 4083: Evolution
BIO 404V/504V: Phylogenetics and Systematics

Workshops

2018-2019 Instructor, Bioinformatics and Phylogenomics workshop. Purdue University.
2017-2018 Instructor, Bioinformatics Workshop. University of Illinois.

Educator

2011-2012 Coordinator, Internship Program. Maritime Gloucester, Gloucester, MA.
2007-2012 Educator, Marine Science. Maritime Gloucester, Gloucester, MA.

Invited Lectures

2022 Arkansas State University, Natural History Collections and Curation Club. DNA Day. 11 February 2022.
2021 Arkansas State University, BIO 4033: Bioinformatics and Applications. 14 October 2021.
2020 University of Illinois, IB 467: Principles of Systematics. 8 December 2020.
2019 Purdue University, ENTM 69200: Tree Thinking. 16 October 2019.
2018 Purdue University, Dept. of Entomology Methods Seminar. 16 October
2015 University of Illinois, IB 467: Principles of Systematics. 12 November 2015.

Teaching Assistant

2015 IB 467: Principles of Systematics. University of Illinois.
2013 IB 150: Organismal and Evolutionary Biology. University of Illinois.
2013 Merit Program Instructor. University of Illinois.
2013 Access and Achievement Program Instructor. University of Illinois.

- 2012 IB 150: Organismal and Evolutionary Biology. University of Illinois.
 2012 Biology 102: General Biology II. Grove City College.
 2010 Biology 102: General Biology II. Grove City College.
 2009 Biology 101: General Biology I. Grove City College.

STUDENT MENTORSHIP AND TRAINING

Arkansas State University:

Graduate Students: Alexander Worm (Ph.D., 2021-Present, co-advised with Dr. Than Boves), Paige Brewer (M.S., 2022-Present)

Undergraduate Students: Salma Abdel-Karim (2022-Present), Paige Jennings (2022-Present), Callie Beaird-Campbell (2022-Present), Jasmine Jones (2022-Present), Joe Green (2022-2023), Mikayla Westman-Forbes (2022-2023), Paige Brewer (2021-2022), Kendall Lee (2021-2022)

Thesis Committees: Andrew Goode (B.S. Honors, 2023-Present), Ty Sharrow (M.S., 2022-Present), Zachary Campbell (Ph.D., 2022-Present), Courtney Dover (B.S. Honors, 2022-2023; M.S., 2023-Present), Monica Reusche (M.S., 2021-Present), Alix Matthews (Ph.D., 2021-Present), David Stanford-Beale (Purdue University, Ph.D., 2021-2022)

Purdue University: Melissa Starkie (2019), Shuangmei Ding (2018-2020), Makani Fisher (2018-2020), David Stanford-Beale (2018-2020)

University of Illinois: Mark Prakash (2018), Brandon Jones (2013), Jennifer Nowak (2013-2015), Ashley Markazi (2013), Matthew Mason (2013-2017), Gabriela Escalante (2013-2015)

INVITED PRESENTATIONS

- 2023 Arkansas Biosciences Institute, Spring Research Series. 13 April 2023.
 2022 Arkansas Biosciences Institute, Summer Research Series. 28 July 2022.
 2021 University of Arkansas, Dept. of Biology Seminar. 21 October 2021.
 2021 California Academy of Science Genomic Social Hour. 17 February 2021.
 2018 Purdue University, Dept. of Entomology Seminar. 30 August 2018.
 2017 Arkansas State University, Dept. of Biology Seminar. 15 November 2017.

CONTRIBUTED ORAL PRESENTATIONS

- 2023 **Andrew Sweet**, Daniel Browne, Alvaro Hernandez, Kevin Johnson, and Stephen Cameron. Insights into genome evolution and host-symbiont relationships from long-read sequencing of a single feather louse. Association of Southeastern Biologists Annual Meeting. Winston-Salem, NC, USA. 23-26 March 2023.

- 2022 Alix Matthews [presenter], Asela Wijeratne, **Andrew Sweet**, Fabio Hernandez, David Toews, and Than Boves. Host specificity varies widely in dispersal-limited symbionts. International Congress of Acarology. Auckland, New Zealand. 1-5 December 2022.
- 2022 Paige Brewer** [presenter] and **Andrew Sweet**. Diversity and abundance of ectoparasites on birds in northeast Arkansas. Association of Field Ornithologists Annual Meeting. Plymouth, MA, USA. 13 October 2022.
- 2022 **Andrew Sweet** and Stephen Cameron. The fragmented mitogenomes of lice: how a rare and often fatal phenomenon persists in a group of insects. XXVI International Congress of Entomology. Helsinki, Finland. 21 July 2022.
- 2022 David Stanford-Beale [presenter], **Andrew Sweet**, Lawrence Mound, Kevin Johnson, and Stephen Cameron. Phylogenomics of Thrips (Thysanoptera). XXVI International Congress of Entomology. Helsinki, Finland. 18 July 2022.
- 2022 **Andrew Sweet**, Jorge Doña, and Kevin P. Johnson. Evolutionary history of a globally distributed group of ectoparasitic lice from doves. Association of Southeastern Biologists Annual Meeting. Little Rock, AR, USA. 31 March 2022.
- 2020 **Andrew Sweet** and Stephen Cameron. Evolution and persistence of fragmented mitogenomes in parasitic lice. Entomological Society of America Virtual Annual Meeting. 11-25 November 2020.
- 2020 Makani Fisher [presenter], Nicolas Dowdy, Alan R. Lemmon, Emily M. Lemmon, **Andrew Sweet**, Stephen Cameron, and Jennifer Zaspel. Phylogenetic assessment of the lichen-feeding tiger moth subtribe Cisthenina (Erebidae: Arctiinae: Lithosiini) by combining anchored hybrid enrichment data with traditional loci. Entomological Society of America Virtual Annual Meeting. 11-25 November 2020.
- 2019 **Andrew D. Sweet** and Stephen L. Cameron. Broken records: a repeated evolutionary history of mitochondrial genome fragmentation in parasitic lice. Entomological Society of America. St. Louis, MO, USA. 20 November 2019.
- 2019 Stephen Cameron [presenter], **Andrew Sweet**, and David Stanford-Beale. Mitochondrial genome evolution in thrips (Thysanoptera). Entomological Society of America. St. Louis, MO, USA. 20 November 2019.

- 2019 Robert de Moya [presenter], **Andrew Sweet**, Julie Allen, Kimberly K.O. Walden, and Kevin P. Johnson. Phylogenomics and host-switching patterns among major feather louse (Psocodea: Phthiraptera: Philopteridae) groups. Entomological Society of America. St. Louis, MO, USA. 18 November 2019.
- 2019 **Andrew D. Sweet** and Stephen L. Cameron. The tumultuous evolutionary history of mitochondrial genome architecture in parasitic lice. *Evolution* 2019. Providence, RI, USA. 24 June 2019.
- 2018 **Andrew D. Sweet** and Kevin P. Johnson. Ground-dove lice, genomes, and the search for a more complete picture of host-parasite coevolution. 6th International Conference on Phthiraptera. Brno, Czech Republic. 24 June 2018.
- 2018 Robert S. de Moya [presenter], Kazunori Yoshizawa, Kimberly K.O. Walden, Julie M. Allen, **Andrew D. Sweet**, Malte Peterson, Lars Podsiadlowski, Christopher H. Dietrich, Hugh M. Robertson, and Kevin P. Johnson. The next generation of phylogenetic relationships within Psocodea. 6th International Conference on Phthiraptera. Brno, Czech Republic. 24 June 2018.
- 2018 Stephany Virrueta Herrera [presenter], Jason D. Weckstein, **Andrew D. Sweet**, Julie M. Allen, Kimberly K.O. Walden, Michel P. Valim, and Kevin P. Johnson. Phylogenomics of tinamou feather lice and relatives. 6th International Conference on Phthiraptera. Brno, Czech Republic. 24 June 2018.
- 2017 **Andrew D. Sweet** and Kevin P. Johnson. Untangling the coevolutionary trees between New World ground-doves and their parasitic lice. AOS/SCO Joint Meeting. East Lansing, MI, USA. 3 August 2017.
- 2017 **Andrew D. Sweet**. Untangling the coevolutionary trees between New World ground-doves and their parasitic lice. *Evolution* 2017. Portland, OR, USA. 24 June 2017.
† **Ernst Mayr Award finalist**
- 2017 Bret Boyd, Kevin Johnson [presenter], Ian James, Adam Clayton, **Andrew Sweet**, Julie Allen, Robert Weiss, and Colin Dale. Phylogenomics of *Sodalis* symbionts: models for repeated replacement. *Evolution* 2017. Portland, OR, USA. 26 June 2017.
- 2017 **Andrew D. Sweet** and Kevin P. Johnson. Untangling the evolutionary history between New World ground-doves and their parasitic body lice using genomic data. Midwest Ecology and Evolution Conference. Champaign, IL, USA. 18 March 2017.

- 2016 **Andrew D. Sweet** and Kevin P. Johnson. Evolutionary history between a group of doves and their parasitic wing lice. Evolution 2016. Austin, TX, USA. 21 June 2016.
- 2016 **Andrew D. Sweet.** Cophylogenetic patterns between small New World ground-doves and their parasitic wing lice (Pthiraptera: *Columbicola*). 18th Annual GEEB Research Symposium. University of Illinois, Urbana, IL, USA. 13 February 2016.
- 2014 **Andrew D. Sweet** and Kevin P. Johnson. Patterns of diversification in small New World ground doves are consistent with major geologic events. AOU/COS/SCO Joint Meeting. Estes Park, CO, USA. 27 September 2014.
- 2014 **Andrew D. Sweet** and Kevin P. Johnson. Cospeciation patterns between small New World ground doves and their parasitic wing lice (Phthiraptera: *Columbicola*). 5th International Conference on Phthiraptera. Park City, UT, USA. 6 August 2014.

CONTRIBUTED POSTER PRESENTATIONS

* Graduate student co-author

** Undergraduate student co-author

- 2023 Paige Brewer* and **Andrew Sweet.** Population genomics among mainland and island chewing lice (*Physconelloides eurysema*) from Common ground doves (*Columbina passerina*). Association of Southeastern Biologists Annual Meeting. Winston-Salem, NC, USA. 23-26 March 2023.
- 2022 Paige Brewer** and **Andrew Sweet.** Diversity and abundance of ectoparasites on birds in northeast Arkansas. Association of Field Ornithologists Annual Meeting. Plymouth, MA. October 2022.
- 2022 Alexander J. Worm*, Emily R. Donahue, Than J. Boves, and **Andrew D. Sweet.** Joint-nesting and cooperation between a Western Kingbird (*Tyrannus verticalis*) and a hybrid Western Kingbird x Scissor-tailed Flycatcher (*T. forficatus*) in Arkansas. Association of Field Ornithologists Annual Meeting. Plymouth, MA. October 2022.
- 2022 Paige Brewer** and **Andrew Sweet.** Diversity and abundance of ectoparasites on birds in northeast Arkansas. American Ornithological Society and Birds Caribbean Joint Meeting. San Juan, PR. 28 June 2022.

- 2022 Alexander J. Worm*, Emily R. Donahue, Than J. Boves, and **Andrew D. Sweet**. Joint-nesting and cooperation between a Western Kingbird (*Tyrannus verticalis*) and a hybrid Western Kingbird x Scissor-tailed Flycatcher (*T. forficatus*) in Arkansas. American Ornithological Society and Birds Caribbean Joint Meeting. San Juan, PR. 28 June 2022.
- 2022 Paige Brewer** and **Andrew Sweet**. Diversity and abundance of ectoparasites on birds in northeast Arkansas. CREATE@STATE. Jonesboro, AR. 19 April 2022.
- 2022 Alexander J. Worm*, Emily R. Donahue, Than J. Boves, and **Andrew D. Sweet**. Joint-nesting and cooperation between a Western Kingbird (*Tyrannus verticalis*) and a hybrid Western Kingbird x Scissor-tailed Flycatcher (*T. forficatus*) in Arkansas. CREATE@STATE. Jonesboro, AR. 19 April 2022.
† **Outstanding Graduate Student Poster Award**
- 2022 Paige Brewer** and **Andrew Sweet**. Diversity and abundance of ectoparasites on birds in northeast Arkansas. Association of Southeastern Biologists Annual Meeting. Little Rock, AR, USA. 31 March 2022.
† **Outstanding Student Poster Award**
- 2022 Alexander J. Worm*, Emily R. Donahue, Than J. Boves, and **Andrew D. Sweet**. Joint-nesting and cooperation between a Western Kingbird (*Tyrannus verticalis*) and a hybrid Western Kingbird x Scissor-tailed Flycatcher (*T. forficatus*) in Arkansas. Association of Southeastern Biologists Annual Meeting. Little Rock, AR, USA. 31 March 2022.
- 2018 Maria Soledad Leonardi, Stephany Virrueta Herrera [presenter], **Andrew Sweet**, Javier Negrete, and Kevin Johnson. 6th International Conference on Phthiraptera. Brno, Czech Republic. 25 June 2018.
- 2018 **Andrew D. Sweet**. Unraveling the evolutionary tangle between ground-doves and their parasitic wing lice. 20th Annual GEEB Research Symposium. University of Illinois, Urbana, IL, USA. 10 February 2018.
- 2016 **Andrew D. Sweet** and Kevin P. Johnson. Unraveling the evolutionary tangle between ground-doves and their parasitic wing lice. North American Ornithological Conference. Washington, D.C., USA. 19 August 2016.
- 2014 Kevin P. Johnson [presenter], Jennifer E. Nowak*, **Andrew D. Sweet**, and Jason D. Weckstein. A molecular phylogeny for fruit doves and their allies. 26th International Ornithological Conference. Tokyo, Japan. 18 August 2014.

- 2014 Jennifer E. Nowak [presenter]*, **Andrew D. Sweet**, Jason D. Weckstein, and Kevin P. Johnson. A phylogenetic comparison of African doves and their lice. 5th International Conference on Phthiraptera. Park City, UT, USA. 4 August 2014.

OUTREACH

- 2018 Yankee Ridge Elementary School, Junior Scientist Day. Urbana, IL. Unit: “Parasites!” 27 April 2018.
- 2017 Display for a Prairie Research Institute fundraising event featuring research on passenger pigeons and their lice. Champaign, IL. 8 July 2017.
- 2015 Leal Elementary School, Science Night. Urbana, IL. Unit: “Organizing Organisms.” 10 April 2015.
- 2014-2018 Community Expert for the Next Generation School Science and Engineering Fair. Champaign, IL. 21 February 2014; 18 February 2015; 19 February 2016; 17 February 2017; 16 February 2018.
- 2013 Southview Middle School, Science Night. Danville, IL. Unit: “Classification and Biodiversity.” 18 November 2013.

RELEVANT EXPERIENCES

- 2021-2022 Hanover Grant Academy.
- 2019 *Amplify the Signal* Science Communication Workshop. University of Illinois. 14-15 May 2019.
- 2018 aTRAM Workshop. Illinois Natural History Survey. 2 November 2018.
- 2015 Workshop on Molecular Evolution. Marine Biological Laboratory, Woods Hole, MA. 19-29 July 2015.
- 2015 Issues in Gene Alignment and Phylogenomics Workshop. Illinois Natural History Survey. 13 June 2015.
- 2015 Science Writing Workshop. University of Illinois. 23 April 2015.

SERVICE AND LEADERSHIP

Volunteer:

- 2022-2023 Northeast Arkansas Regional Fair – judge
- 2020-2023 ESA Early Career Professionals Research Award – reviewer
- 2019 ESA Annual Meeting – student competition judge; moderator
- 2019 Purdue University Bug Bowl – volunteer
- 2017 Midwest Ecology and Evolution Conference – volunteer; moderator
- 2017 GEEB Research Symposium – judge
- 2016-2017 GEEB Research Symposium – moderator
- 2013-2014 U. of Illinois Systematics Reading Group – student coordinator

Committees:

- 2021-Present Animals Use Committee. Department of Biological Sciences. Arkansas State University

2021-Present Darwin Day Organization Committee (Chair). Department of Biological Sciences. Arkansas State University
2016-2017 PEEC Seminar Committee

Symposia

2022 “Mechanisms of host-symbiont coevolution: from genotype to phenotype.” European Society for Evolutionary Biology. Prague, Czech Republic. Co-organizers: Jorge Doña, Megan Sørensen, Dragan Stajic. 14-19 August 2022.

Journal Service:

2020-2023 Guest co-editor *Life*
Special issue: “Untangling host-symbiont coevolutionary history in the High Throughput Sequencing (HTS) era”
2020-Present Reviewer Board *Insects*

Reviewer:

The American Naturalist, Asian Pacific Journal of Tropical Medicine, Biological Journal of the Linnean Society, Cladistics, Diversity and Distributions, Diversity, EBSCO Information Services, The Great Lakes Entomologist, Insects, International Journal for Parasitology: Parasites and Wildlife, iScience, Journal of Economic Entomology, Journal of Heredity, Journal of Medical Entomology, Frontier in Ecology and Evolution, Frontiers in Zoology, Genes, Medical and Veterinary Entomology, Mitochondrial DNA Part B: Resources, Molecular Biology Reports, Molecular Ecology, Parasitology, Parasitology Research, Philosophical Transactions of the Royal Society B, Oecologia, Organisms Diversity and Evolution, PeerJ, PLOS ONE, Systematic Entomology, The Journal of Parasitology, Zoologica Scripta, Zoological Journal of the Linnean Society

PROFESSIONAL SOCIETIES

American Ornithological Society
Association of Southeastern Biologists
Society for the Study of Evolution
Sigma Xi