

CURRICULUM VITAE

Tracy A. Heath (she/her/hers)

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Department of Ecology, Evolution & Organismal Biology
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Ames, IA 50011 USA

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EDUCATION

Ph.D. 2008 University of Texas at Austin, Ecology, Evolution, & Behavior
B.A. 2000 Boston University, Biology

ACADEMIC POSITIONS

2022–present **Professor-in-Charge**
George Washington Carver Program and Faculty Council, Iowa State University

2021–present **Associate Professor**
Dept. of Ecology, Evolution, & Organismal Biology, Iowa State University

2015–2021 *Assistant Professor*
Dept. of Ecology, Evolution, & Organismal Biology, Iowa State University

2010–2015 *Associate Research Specialist*
Dept. of Integrative Biology, University of California, Berkeley

2013–2015 *Postdoctoral Researcher*
Dept. of Ecology & Evolutionary Biology, University of Kansas

2008–2010 *NSF Postdoctoral Fellow in Biological Informatics*
University of Kansas & University of California, Berkeley

2003–2008 *NSF IGERT Graduate Research Trainee*
Computational Phylogenetics, University of Texas at Austin

2007 *Visiting Scholar*
Biomathematics Research Centre, Christchurch, NZ

2002–2007 *Graduate Research Assistant*
School of Biological Sciences, University of Texas at Austin

2000–2001 *DNA Sequencing Facility Manager*
Dept. of Biology, Boston University

PUBLICATIONS

Citations ([Google Scholar](#), March 2024): 4,776 • Erdős Number: 3

Heath Lab trainees: ¹student/postdoc, ⁴visiting student/postdoc.

- Justison, J.A.¹, **T.A. Heath**. 2024. Exploring the distribution of phylogenetic networks generated under a birth-death-hybridization process. *Bulletin of the Society of Systematic Biologists*, in press. [📄](#)
- Justison, J.A.¹, C. Solis-Lemus, **T.A. Heath**. 2023. SiPhyNetwork: An R package for simulating phylogenetic networks. *Methods in Ecology & Evolution*, 14:1687–1698. [🔗](#)
- Barido-Sottani, J.¹, D. Żyła², **T.A. Heath**. 2023. Estimating the age of poorly dated fossil specimens and deposits using a total-evidence approach and the fossilized birth-death process. *Systematic Biology*, 72:466–475. [🔗](#)

- Satler, J.D.[✉], E.A. Herre, **T.A. Heath**, C.A. Machado, A. Gomez Zúñiga, K.C. Jandér, D.A. Eaton, J.D. Nason. 2023. Pollinator and host sharing lead to hybridization and introgression in Panamanian free-standing figs, but not in their pollinator wasps. *Ecology & Evolution*, 13:e9673. [↗](#)
- Ksepka, D.T., D.J. Field, **T.A. Heath**, W. Pett[✉], D.B. Thomas, S. Giovanardi, A.J.D. Tennyson. 2023. Largest-known fossil penguin provides insight into the early evolution of sphenisciform body size and flipper anatomy. *Journal of Paleontology*, 97:434–453. [↗](#) [📄](#)
- Dismukes, W.T.[✉], M.P. Braga, D.H. Hembry, **T.A. Heath**, M.J. Landis. 2022. Cophylogenetic methods to untangle the evolutionary history of ecological interactions. *Annual Review of Ecology, Evolution, & Systematics*, 53:275–298. [↗](#)
- Cole, T.L., C. Zhou, M. Fang, H. Pan, D.T. Ksepka, S.R. Fiddaman, C.A. Emerling, D.B. Thomas, X. Bi, Q. Fang, M.R. Ellegaard, S. Feng, A.L. Smith, **T.A. Heath**, A.J.D. Tennyson, P. García Borboroglu, J.R. Wood, P.W. Hadden, S. Grosser, C.-A. Bost, Y. Cherel, T. Mattern, T. Hart, M.H.S. Sinding, L.D. Shepherd, R.A. Phillips, P. Quillfeldt, J.F. Masello, J.L. Bouzat, P.G. Ryan, D.R. Thompson, U. Ellenberg, P. Dann, G. Miller, P.D. Boersma, R. Zhao, M.T.P. Gilbert, H. Yang, D.-X. Zhang, G. Zhang. 2022. Genomic insights into the secondary aquatic transition of penguins. *Nature Communications*, 13:3912. [↗](#)
- Barido-Sottani, J.[✉], J.A. Justison[✉], R. Borges, J.M. Brown, W. Dismukes[✉], B. do Rosario Petrucci[✉], L. Guimarães Fabreti, S. Höhna, M.J. Landis, P.O. Lewis, M.R. May, F.K. Mendes, W. Pett[✉], B.D. Redelings, C.M. Tribble, A.M. Wright, R. Zenil-Ferguson, **T.A. Heath**. 2022. Lessons learned from organizing and teaching virtual phylogenetics workshops. *Bulletin of the Society of Systematic Biologists*, 1(2):8425. [↗](#)
- Satler, J.D.[✉], E.A. Herre, **T.A. Heath**, C.A. Machado, A. Gómez Zúñiga, J.D. Nason. 2022. Genome-wide sequence data show no evidence of hybridization and introgression among pollinator wasps associated with a community of Panamanian strangler figs. *Molecular Ecology*, 31:2106–2123. [↗](#)
- Dismukes, W.T.[✉], **T.A. Heath**. 2021. treeducken: an R package for simulating cophylogenetic systems. *Methods in Ecology & Evolution*, 12:1358–1364. [↗](#)
- Żyła, D.[✉], A. Bogri, **T.A. Heath**, and A. Solodovnikov. 2021. Total-evidence analysis resolves the phylogenetic position of an enigmatic group of Paederinae rove beetles (Coleoptera: Staphylinidae). *Molecular Phylogenetics and Evolution*, 157:107059. [↗](#)
- Thomas, D.B., A.J.D. Tennyson, R.P. Scofield, **T.A. Heath**, W. Pett[✉], D.T. Ksepka. 2020. Ancient crested penguin constrains timing of recruitment into seabird hotspot. *Proceedings of the Royal Society B*, 287:20201497. [↗](#)
- Pett, W.[✉], **T.A. Heath**. 2020. Inferring the timescale of phylogenetic trees from fossil data. Eds: C. Scornavacca, F. Delsuc, N. Galtier. *Phylogenetics in the Genomic Era*. No commercial publisher | Authors open access book, pp: 5.1:1–5.1:18. [↗](#)
- Barido-Sottani, J.[✉], J.A. Justison[✉], A.M. Wright[✉], R.C.M. Warnock[✉], W. Pett[✉], **T.A. Heath**. 2020. Estimating a time-calibrated phylogeny of fossil and extant taxa using RevBayes. Eds: C. Scornavacca, F. Delsuc, N. Galtier. *Phylogenetics in the Genomic Era*. No commercial publisher | Authors open access book, pp: 5.2:1–5.2:23. [↗](#)
- Warnock, R.C.M.[✉], **T.A. Heath**, T. Stadler. 2020. Assessing the impact of incomplete species sampling on estimates of speciation and extinction rates. *Paleobiology*, 46:137-157. [↗](#)
- Satler, J.D.[✉], E.A. Herre, D.A.R. Eaton, C.A. Machado, **T.A. Heath**, J.D. Nason. 2019. Inferring processes of coevolutionary diversification in a community of Panamanian strangler figs and associated pollinating wasps. *Evolution*, 73:2295–2311. [↗](#)
- Stadler, T., A. Gavryushkina[✉], R.C.M. Warnock[✉], A.J. Drummond, **T.A. Heath**. 2018. The fossilized birth-death model for the analysis of stratigraphic range data under different speciation concepts. *Journal of Theoretical Biology*, 447:41–55. [↗](#)
- Barido-Sottani, J., V. Bošková, L. du Plessis, D. Kühnert, C. Magnus, V. Mitov, N.F. Müller, J. Pečerska, D.A.

- Rasmussen, C. Zhang, A.J. Drummond, **T.A. Heath**, O.G. Pybus, T.G. Vaughan, T. Stadler. 2018. Taming the BEAST – A community teaching material resource for BEAST 2. *Systematic Biology*, 67:170–174. [↗](#)
- Höhna, S., M.J. Landis[✉], **T.A. Heath**. Phylogenetic inference using RevBayes. 2017. *Current Protocols in Bioinformatics*, 57:6.16.1–6.16.34. [↗](#)
- Gavryushkina, A., **T.A. Heath**, D.T. Ksepka, T. Stadler, D. Welch, A.J. Drummond. 2017. Bayesian total evidence dating reveals the recent crown radiation of penguins. *Systematic Biology*, 66:57–73. [↗](#)
- Höhna, S., M.J. Landis, **T.A. Heath**, B. Boussau, N. Lartillot, B.R. Moore, J.P. Huelsenbeck, F. Ronquist. 2016. RevBayes: Bayesian phylogenetic inference using graphical models and an interactive model-specification language. *Systematic Biology*, 65:726–736. [↗](#)
- Zhang, C., T. Stadler, S. Klopfstein, **T.A. Heath**, F. Ronquist. 2016. Total-evidence dating under the fossilized birth-death process. *Systematic Biology*, 65:228–249. [↗](#)
- Heath, T.A.**, J.P. Huelsenbeck, T. Stadler. 2014. The fossilized birth-death process for coherent calibration of divergence-time estimates. *Proceedings of the National Academy of Sciences*, 111(29):E2957–E2966. [↗](#)
- Cook, J.A., S.V. Edwards, E.A. Lacey, R.P. Guralnick, P.S. Soltis, D.E. Soltis, C.K. Welch, K.C. Bell, K.E. Galbreath, C. Himes, J.M. Allen, **T.A. Heath**, A.C. Carnival, K.L. Cooper, M. Liu, J. Hanken, S. Ickert-Bond. 2014. Natural history collections as emerging resources for innovative education. *Bioscience*, 64:725–734. [↗](#)
- Höhna, S., **T.A. Heath**, B. Boussau, M.J. Landis, F. Ronquist, J.P. Huelsenbeck. 2014. Probabilistic graphical model representation in phylogenetics. *Systematic Biology*, 63:753–771. [↗](#)
- Heath, T.A.**, B.R. Moore. 2014. Bayesian inference of species divergence times. In: Chen, M.-H., L. Kuo, and P.O. Lewis (editors). *Bayesian Phylogenetics: Methods, Algorithms, and Applications*. Chapman & Hall/CRC. [↗](#)
- Stoltzfus, A., H. Lapp, N. Matasci, H. Deus, B. Sidlauskas, C.M. Zmasek, G. Vaidya, E. Pontelli, K. Cranston, R. Vos, C.O. Webb, L.J. Harmon, M. Pirrung, B. O’Meara, M.W. Pennell, S. Mirarab, M.S. Rosenberg, J.P. Balhoff, H.M. Bik, **T.A. Heath**, P.E. Midford, J.W. Brown, E.J. McTavish, J. Sukumaran, M. Westneat, M.E. Alfaro, A. Steele, G. Jordan 2013. Phylotastic! Making tree-of-life knowledge accessible, reusable and convenient. *BMC Bioinformatics*, 14:158. [↗](#)
- Darriba, D., A. Aberer, T. Flouri, **T.A. Heath**, F. Izquierdo-Carrasco, A. Stamatakis. 2013. Boosting the performance of Bayesian divergence time estimation with the Phylogenetic Likelihood Library. *IEEE 27th International Symposium on Parallel & Distributed Processing* doi:10.1109/IPDPSW.2013.267. (peer-reviewed conference proceedings) [↗](#)
- Heath, T.A.** 2012. A hierarchical Bayesian model for calibrating estimates of species divergence times. *Systematic Biology*, 61:793-809. [↗](#)
- Heath, T.A.**, M.T. Holder, J.P. Huelsenbeck. 2012. A Dirichlet process prior for estimating lineage-specific substitution rates. *Molecular Biology and Evolution*, 29:939-955. [↗](#)
- Heath, T.A.**, S.M. Hedtke, D.M. Hillis. 2008. Taxon sampling and the accuracy of phylogenetic analyses. *Journal of Systematics and Evolution*, 46:239-257. [↗](#)
- Heath, T.A.**, D.J. Zwickl, J. Kim, D.M. Hillis. 2008. Taxon sampling affects inferences of macroevolutionary processes from phylogenetic trees. *Systematic Biology* 57:160-166. [↗](#)
- Hillis, D.M., **T.A. Heath**, K. St. John. 2005. Analysis and visualization of tree space. *Systematic Biology*, 54(3):471-482. (cover article) [↗](#)
- Wilcox, T.P., D.J. Zwickl, **T.A. Heath**, D.M. Hillis. 2002. Phylogenetic relationships of the dwarf boas and a comparison of Bayesian and bootstrap measures of phylogenetic support. *Molecular Phylogenetics and Evolution*, 25(2):361-371. [↗](#)

INVITED PRESENTATIONS AND SEMINARS

CONFERENCES & SYMPOSIA

- 2023 Probabilistic Modeling in Genomics, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
- 2022 Midwest Ecology and Evolution Conference, Keynote Speaker, Virtual Conference
- 2021 Mathematical, Inferential and Computational Phylogenomics, Keynote Speaker, Virtual Conference
- 2020 Bird 10K Genome Project Avian Phylogenomics Symposium, Royal Danish Academy of Sciences & Letters, Copenhagen, Denmark
- 2019 Phylogenetic Paleobiology Symposium, Geological Society of America, Phoenix, AZ
- 2018 The Molecular Tree of Life Symposium, Jiangsu Normal University, Xuzhou, China
- 2017 SMC Symposium, Society for Molecular Biology & Evolution, Austin, TX
- 2016 Bird 10K Genome Project Workshop, Beijing, China
- 2016 Jacques Monod Conference on Molecular Evolution, Roscoff, France
- 2013 [Phyloseminar.org](https://www.phyloseminar.org) Series on Integrating Fossils into Molecular Phylogenies 
- 2013 France-Berkeley Fund Symposium on Fossils & Phylogenetics, Berkeley, CA
- 2012 Symposium on Molecular Dating, Hennig XXXI, Riverside, CA
- 2011 Symposium on Bayesian Inference of Phylogeny, Berkeley, CA
- 2011 Bay Area Biosystematists Meeting, Berkeley, CA
- 2010 SSB Symposium, Evolution 2010, Portland, OR
- 2006 CIPRES Symposium & Workshop on Evolutionary Simulation, Philadelphia, PA

DEPARTMENTAL SEMINARS

- 2024 Cornell University, Ecology & Evolutionary Biology Seminar
- 2024 The Ohio State University, Evolution, Ecology, & Organismal Biology Seminar
- 2023 Louisiana State University, Biology Department Seminar
- 2022 Duke University, Biology Department Seminar
- 2019 University of Florida, Florida Museum Department of Natural History Seminar
- 2019 University of Helsinki, Viikki Monday Seminar
- 2018 The Rancho Santa Ana Botanic Garden, Research Seminar
- 2018 University of California, Los Angeles, EEB Seminar
- 2018 University of Chicago, Committee on Evolutionary Biology – Evolutionary Morphology Seminar
- 2018 Montana State University, Department of Earth Sciences Seminar
- 2018 University of New Mexico, Biology Department Seminar
- 2017 University of Michigan, UMMZ Hubbell Invited EEB Speaker
- 2016 University of Idaho, Institute for Bioinformatics and Evolutionary Studies Seminar
- 2016 American Museum of Natural History, Comparative Biology Seminar
- 2016 Indiana University, Department of Biology EEB Seminar
- 2015 University of Missouri, EEB Seminar
- 2015 University of Minnesota, EEB Seminar
- 2014 The European Bioinformatics Institute, EMBL-EBI External Seminar Series
- 2014 University of California, Berkeley, Museum of Paleontology Seminar
- 2014 University of Connecticut, Ecology & Evolutionary Biology Seminar
- 2014 Smithsonian Institution National Museum of Natural History, PhyloPizza Seminar
- 2014 Auburn University, Department of Biological Sciences Seminar
- 2014 North Carolina State University, Bioinformatics Seminar
- 2014 University of Alabama, Department of Biological Sciences Seminar
- 2014 University of California Los Angeles, Division of Life Sciences Faculty Mentorship Colloquium

2013 Iowa State University, Ecology, Evolution, & Organismal Biology Seminar
2013 Brown University, Center for Computational Molecular Biology Seminar
2013 Brigham Young University, Biology Department Seminar
2013 Cornell University, Ecology & Evolutionary Biology Seminar
2013 University of Washington PopGenLunch Seminar
2013 Bowdoin College, Biology Department Seminar
2013 Texas Tech University, Department of Biological Sciences Seminar
2012 California Academy of Sciences, Research Seminar
2012 University of California, Davis, Center for Population Biology Seminar

OTHER INVITED TALKS

2020 ISU Hunting Club Invited Speaker, Iowa State University, Ames, IA
2017 Public Speaker, The Des Moines March for Science, Iowa State Capitol, Des Moines, IA
2016 ISU Biological Sciences Club Invited Speaker, Iowa State University, Ames, IA
2016 Brown Scholars/Bridge Up Program, American Museum of Natural History, New York, NY
2013 Girls Who Code Summer Program @Twitter, San Francisco, CA

CONTRIBUTED PRESENTATIONS

2022 ISCORE, Iowa State University, Ames, IA
2015 EEB Spring Symposium, Iowa State University, Ames, IA
2014 Society for Vertebrate Paleontology (education/outreach poster), Berlin, Germany
2014 iEvoBio 2014, Raleigh, NC, USA
2013 Evolution 2013, Snowbird, UT, USA
2012 Evolution 2012, Ottawa, Ontario, Canada
2011 Evolution 2011, Norman, OK, USA
2009 Evolution 2009, Moscow, ID, USA
2007 Evolution 2007, Christchurch, New Zealand
2007 The Annual New Zealand Phylogenetics Meeting – Doom07, Whakapapa, NZ
2006 Evolution 2006, Stony Brook, NY, USA
2006 NSF IGERT Project Meeting (poster), Arlington, VA, USA
2004 Evolution 2004, Fort Collins, CO, USA

NATIONAL AND INTERNATIONAL WORKSHOPS

2023–2025 Co-Director, The Workshop on Molecular Evolution, Marine Biological Laboratory, Woods Hole, MA
2021 Stay-at-Home RevBayes Workshop, Online
2020 Stay-at-Home RevBayes Workshop, Online
2019 Midwest Phylogenetics Workshop, University of Minnesota Itasca Biological Station, Lake Itasca, MN USA
2019 Bayesian phylogenetics and macroevolution in RevBayes, Centre for Biodiversity Analysis, Australian National University, Canberra, Australia
2018 Introduction to RevBayes, The Field Museum of Natural History, Chicago, IL USA
2018 Introduction to RevBayes, Department of Earth Sciences, Montana State University, Bozeman, MT USA
2017–2019 Workshop on Phylogenomics, Český Krumlov, Czechia

- 2017 Introduction to Bayesian inference of phylogenies using molecular and fossil data in RevBayes, International Biogeography Society, Bengaluru, India
- 2017 Phylogenetic Inference Using RevBayes, NIMBios, Knoxville, TN USA
- 2017 Taming the BEAST – Workshop on Bayesian Evolutionary Analysis by Sampling Trees, Waiheke Island, New Zealand
- 2017 RevBayes: Analysis of Fossil and Molecular Data, SSB Meeting, Baton Rouge, LA USA
- 2016 Taming the BEAST – Workshop on Bayesian Evolutionary Analysis by Sampling Trees, Engelberg, Switzerland
- 2015 Model-Based Molecular Systematics Workshop at Evolution 2015, Guarujá, Brazil
- 2015 Workshop on Bayesian Divergence Time Estimation at Society of Systematic Biologists Meeting 2015, Ann Arbor, MI USA
- 2014–2016 Advanced Course on Computational Molecular Evolution, European Molecular Biology Organization, Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Heraklion, Greece
- 2014 NESCent Academy Course: Phylogenetic Analysis Using RevBayes, National Evolutionary Synthesis Center (NESCent), Durham, NC USA
- 2013–2016 Advanced Course on Computational Molecular Evolution, Wellcome Trust and European Bioinformatics Institute, Hinxton, UK
- 2013 Workshop on Molecular Evolution, Český Krumlov, Czechia
- 2012–2022 Workshop on Molecular Evolution, Marine Biological Laboratory, Woods Hole, MA USA
- 2011–2015 Bodega Applied Phylogenetics Workshop, Bodega Bay, CA USA

MAJOR GRANTS

- 2018–2023 **National Science Foundation.** ([DBI-1759909](#) & [DBI-1759811](#))
 “Collaborative Research: ABI Development: Improving the stability, usability, and speed of the RevBayes platform for phylogenetic analysis”
 PIs: Tracy Heath and John Huelsenbeck (UC Berkeley)
- 2016–2022 **National Science Foundation.** ([DEB-1556853](#))
 “Multilocus analyses of co-diversification and phylogenetic incongruence between highly coevolved figs and fig wasps”
 PI: John Nason, Co-PIs: Tracy Heath, Allen Herre (Smithsonian)
- 2016–2021 **National Science Foundation.** ([DEB-1556615](#) & [DEB-1556701](#))
 “Collaborative Research: Advancing Bayesian phylogenetic methods for synthesizing paleontological and neontological data”
 PIs: Tracy Heath & Robert Meredith (Montclair State University), Co-PI: Daniel Ksepka (Bruce Museum).
- 2008–2010 **National Science Foundation.** ([DBI-0805631](#))
 “Complex models of substitution rate variation and a comparison of Bayesian methods for estimating species divergence times”
 NSF PostDoctoral Research Fellowship in Biology

SERVICE IN SUPPORT OF DIVERSITY, EQUITY, & INCLUSION

- 2023 Organizer, Evolutionary Biology Societies Booth, Exhibit Hall, SACNAS NDiSTEM Conference, Portland, OR
- 2023 Evo Ally, Evolution 2023, Albuquerque, NM
- 2023 Featured Profile, Tracing Race: Exploring the Journey of Asian Women in STEM at ISU [🔗](#)
- 2022 Mentor, EEB Mentor Match Program [🔗](#)
- 2022 Organizer, Evolutionary Biology Societies Booth, Exhibit Hall, SACNAS NDiSTEM Conference, San Juan, Puerto Rico
- 2022 Panelist, Postdoc Leadership Institute, SACNAS NDiSTEM Conference, San Juan, PR
- 2022 Organizer, Presentation and Panel Discussion on “From the Field to the Lab: Building an Inclusive and Immersive Experience for Students Entering Biodiversity Sciences”, Iowa State Conference on Race and Ethnicity (ISCORE), Iowa State University, Ames, IA [📺](#)
- 2022 Evo Ally, Evolution 2022, Cleveland, OH
- 2021–present Diversity, Equity, & Inclusion Committee Co-Chair, EEOB Department, Iowa State Univ.
- 2021 Conduct Moderator, Virtual Evolution 2021
- 2020–2021 Diversity, Equity, & Inclusion Committee Member, EEOB Department, Iowa State Univ.
- 2020 Mentor Judge, SACNAS NDiSTEM Conference (virtual meeting)
- 2020 Diversity Committee Co-Chair, American Society of Naturalists
- 2020 Panelist, Preparing for Your Preliminary Exams, Iowa State University SACNAS Chapter, Ames, IA (virtual panel)
- 2020 Panelist, Preparing for a Postdoc, Iowa State University SACNAS Chapter, Ames, IA
- 2019–2020 Diversity, Equity, & Inclusion Interim Committee Member, Society of Systematic Biologists
- 2019 Panelist, Postdoc Leadership Institute, SACNAS NDiSTEM Conference, Honolulu, HI
- 2019 Mentor, Vanguard STEM Guerrilla Mentoring, SACNAS NDiSTEM Conference, Honolulu, HI
- 2019 Faculty Mentor, Grant Writing Retreat, ISU/KU Joint SACNAS Chapters, Univ. Kansas, Lawrence, KS
- 2019 Mentor for the Undergraduate Diversity at Evolution Program
- 2019 Evo Ally, Evolution 2019, Providence, RI
- 2018 Panelist, Social Media, Iowa State University SACNAS Chapter, Ames, IA
- 2018 Faculty Mentor, Grant Writing Retreat, ISU/KU Joint SACNAS Chapters, Iowa State Univ., Ames, IA
- 2017–2021 Diversity Committee Member, American Society of Naturalists
- 2017 Speaker (representing SACNAS), 2017 March for Science, Des Moines, IA [📺](#) [📺](#)
- 2016 Mentor Judge, SACNAS NDiSTEM Conference, Long Beach, CA
- 2016 Organizer, Scientific Symposium on “(Day and) Night at the Museum: Exploring Research in Ecology and Evolution behind the Scenes of Natural History Museums”, SACNAS NDiSTEM Conference, Long Beach, CA
- 2016 Field Trip Leader, The Rancho Santa Ana Botanic Garden, SACNAS NDiSTEM Conference, Long Beach, CA
- 2016 Mentor for the Preparing Future Faculty Program at Iowa State University
- 2015–present Member, Iowa State University SACNAS Chapter
- 2015–2016 Social Media Street Team Member, SACNAS NDiSTEM Conference, Washington, DC
- 2015 Organizer, SSB Symposium on “Breaking Barriers: Empirical, Theoretical, and Gender Issues in Phylogenetics”, Evolution Meetings, Guarujá, Brazil
- 2015 Panelist for large-format discussion on “iEvoBio: How to start software development in evolutionary biology” at the Society of Systematic Biologists Meeting, Ann Arbor, MI

2014	Session Chair and Organizer, Professional Development Session on Computational Biology at the SACNAS NDiSTEM Conference ↗
2013–2015	Participant, AIM-UP!–Advancing Integration of Museums into Undergraduate Programs (NSF RCN-UBE DEB-0956129)
2012–2014	Mentor for the Undergraduate Diversity at Evolution Program
2011	Panelist, Women in Science & Engineering Residential Program Seminar, U.C. Berkeley
2011	Panelist, The Initiative for Maximizing Student Development (IMSD) Graduate Fellows Program Workshop, U.C. Berkeley

IOWA STATE UNIVERSITY SERVICE

2023–present	Member, Supervisory Committee, BCB Graduate Program
2023–2024	Member, Faculty Search Committee: Comparative Animal Physiology, EEOB Department
2023–present	Co-Chair, Curriculum Committee, EEB Graduate Program
2022–present	Member, Special Review Committee for Adjunct Faculty Member, EEOB Department
2022–present	Chair, Faculty Council, George Washington Carver Academy
2022–present	Member, Faculty Development Committee, Liberal Arts & Sciences
2022–2023	Member, Curriculum Committee, EEB Graduate Program
2021–present	Co-Chair, Diversity, Equity, & Inclusion Committee, EEOB Department
2021–2022	Chair, Graduate Studies Committee, EEOB Department
2020–2021	Member, Diversity, Equity, & Inclusion Committee, EEOB Department
2019–2020	Member, Faculty Search Committee: Comparative Animal Physiology, EEOB Department
2018–2019	Member, Strategic Hiring Planning Committee, EEOB Department
2018–2019	Member, Honors & Awards Committee, EEOB Department
2017–2021	Member, Graduate Studies Committee, EEOB Department
2016–2022	Member, Recruitment Committee, EEB Graduate Program
2016–2018	Member, Admissions Committee, BCB Graduate Program
2015–2017	Member, Social Committee, EEOB Department

OTHER PROFESSIONAL SERVICE

THE SOCIETY OF SYSTEMATIC BIOLOGISTS

2024–2026	Joint Meeting Council Representative, Society of Systematic Biologists Executive Council
2022–present	Member, Legacy Committee, Society of Systematic Biologists
2019–2021	Communications Director, Society of Systematic Biologists Executive Council
2016–2018	Awards Director, Society of Systematic Biologists Executive Council
2013–2015	Elected Council Member, Society of Systematic Biologists

PEER REVIEW

2023	<i>ad hoc</i> Reviewer, SIB Swiss Institute of Bioinformatics
2023	Panelist, National Science Foundation, DBI, virtual panel
2023	Panelist, National Science Foundation, TIP, virtual panel
2021–present	Promotion & Tenure External Reviewer (x4)
2021	Panelist, National Science Foundation, DEB, virtual panel
2020	Ph.D. Defense Opponent, Tobias Andermann, University of Gothenburg, Sweden
2019	Panelist, National Science Foundation – DEB, Alexandria, VA
2017	<i>ad hoc</i> Reviewer, National Science Foundation, DEB

2017 Panelist, National Science Foundation, DEB, Arlington, VA
 2016 Ph.D. Defense External Evaluator, Louis du Plessis, ETH Zürich
 2016 Ph.D. Thesis Reviewer, Australian National University
 2015 Textbook Chapter Reviewer for *Life: The Science of Biology*
 2015 Judge, SSB Ernst Mayr Award, Evolution Meetings, Guarujá, Brazil
 2015 Panelist, National Science Foundation, DEB, Arlington, VA
 2012 & 2014 Reviewer, The Society of Systematic Biologists Graduate Student Research Awards
 2012 Proposal Reviewer, The Graduate Women in Science 2012 National Fellowships Program
 2008–2022 Editorial Board Member, *Systematic Biology*
 2006–present Reviewer for: *Bioinformatics*, *BMC Evolutionary Biology*, *Ecology Letters*, *Evolution*, *Gene*, *Integrative Organismal Biology*, *Journal of Systematics & Evolution*, *Methods in Ecology & Evolution*, *Molecular Biology & Evolution*, *Nature Ecology & Evolution*, *Philosophical Transactions B*, *Proceedings B*, *PNAS*, *Science*, *Systematic Biology*, *Trends in Ecology & Evolution*, *Trends in Genetics*

SYMPOSIUM & CONFERENCE ORGANIZATION

2018 Organizer, SSB Ernst Mayr Award Symposium, Evolution Meetings, Montpellier, France
 2017 Organizer, SSB Ernst Mayr Award Symposium, Evolution Meetings, Portland, OR
 2016 Organizer, SSB Spotlight Session on “Next-generation Phylogenetic Inference”, Evolution Meetings, Austin, TX
 2016 Organizer, SSB Ernst Mayr Award Symposium, Evolution Meetings, Austin, TX
 2013 Organizing Committee Member, *iEvoBio 2013* Conference, Snowbird, UT

PROFESSIONAL AFFILIATIONS

- Society of Systematic Biologists (Life Member)
- Society for the Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS Life Member)
- American Society of Naturalists