Randy Klabacka — Curriculum Vitae

Assistant Professor - Brigham Young University, Provo, UT - 801-422-7263

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Education

Ph.D. in Biological Sciences

2022

2016

Department of Biological Sciences, Auburn University

Advisors: Drs. Tonia Schwartz & Jamie Oaks

B.S. in Biology Department of Biology, Brigham Young University

Advisors: Drs. Jack Sites & Chad Hancock

Professional Appointments

Assistant Professor 2025-present

Biology Department, Brigham Young University

2023-2025 **Assistant Professor**

Biological Sciences Department, Utah Tech University

Grants, Fellowships, and Scholarships

2025: BYU Life Sciences Teaching Development Grant \$10,000

Actively learning the scientific tree of life in BIO 220

Co-investigators: Elizabeth Bailey, Josh Hammari, and Michael Whiting

\$7,000 2023: UT Faculty Research Fellowship

Bioinformatic examination of genome-wide expression and sequence variation in unisexual lizards

2020: EECG Research Award (American Genetics Association) \$8,000

Genomic and bioenergetic costs of asexuality in a vertebrate system (Aspidoscelis)

2019: Trees in the Desert Workshop (NSF - University of Arizona) \$1,000

funded workshop (covering travel, lodging, food, and workshop 2017: CMB Peaks of Excellence Research Fellowship (Auburn University) \$4,500

Mitonuclear distancing: The baggage of an asexual reproductive strategy

2017: Meredith Birchfield Endowed Fund for Excellence (Auburn Univ Museum of Natural History) \$1500

Examining species boundaries in *Draco maculatus*

\$3,000 **2014**: REU Supplement Recipient (BYU)

Phylogeny and biogeography of New World leaf-toed geckos (Phyllodactylus)

\$1,500 **2016**: Office of Research & Creative Activities Grant (BYU)

Phylogeny and species boundaries in spotted flying lizards (*Draco maculatus*)

\$11,987 **2012-15**: Undergraduate Academic Scholarships (BYU)

Awards

2023: Utah Tech Research Award (UT Research Office)	
2019: 1st Place - Henri Seibert Competition Systematics & Evolution Category (SSAR)	\$200
Riverine barriers as potential drivers of biodiversification in <i>Draco maculatus</i> 2019 : COSAM Travel Award (Auburn University)	\$300
Funding to present research at 9th World Congress of Herpetology 2017 : NSF Travel Grant (Society of Systematics Biology Meeting)	\$500
Funding to present research at 2017 SSB meeting 2015: 3rd Place - HBLL College of Life Sciences Poster Competition (BYU)	\$300
Phylogeny and species boundaries in spotted flying lizards (<i>Draco maculatus</i>) 2015: College of Life Sciences Dean's List (BYU)	

Peer-reviewed Publications

- Warner, Daniel A, Connor Kelly, Jenna E Pruett, Amélie Fargevieille, and **Randy L Klabacka** (2023). "Fluctuating environments hinder the ability of female lizards to choose suitable nest sites for their embryos." *Behavioral Ecology and Sociobiology* 77.3, p. 32.
- Beatty, Abby E, Emily P Driessen, Amanda D Clark, Robin A Costello, Sharday Ewell, Sheritta Fagbodun, **Randy L Klabacka**, Todd Lamb, Kimberly Mulligan, Jeremiah A Henning, et al. (2023). "Biology Instructors See Value in Discussing Controversial Topics but Fear Personal and Professional Consequences." *CBE—Life Sciences Education* 22.3, ar28.
- Tracy, Claire B., Emily Driessen, Abby E. Beatty, T. Lamb, Jenna E. Pruett, Jake Botello, Cara Brittain, Ísada Claudio Ford, Chloe C. Josefson, **Randy L Klabacka**, Tyler Smith, Ariel Steele, Min Zhong, Scott Bowling, Cindy Dixon, and Cissy Ballen (2022). "Why students struggle in undergraduate biology: sources and solutions." *accepted in CBE-Life Sciences Education*.
- Klabacka, Randy L, Hailey A Parry, Kang Nian Ryan A Cook* Tori A Herron* L Miles Horne* Yap, Jose A Maldonado, Jamie R Oaks, Andreas N Kavazis, Matthew K Fujita, and Tonia S Schwartz (2022). "Reduced mitochondrial respiration in hybrid asexual lizards." *American Naturalist*.
- Grismer, Jesse, Peter Scott, Erin Toffelmier, Brian Hinds, Randy L Klabacka, Glenn Stewart, Virginia White, Jamie Oaks, and H. Bradley Shaffer (2022). "Genomic data reveal local endemism in Southern California Rubber Boas (Serpentes: Boidae, *Charina*) and the critical need for enhanced conservation actions." accepted in Molecular Phylogenetics and Evolution.
- Westfall, Aundrea K, Rory S Telemeco, Mariana B Grizante, Damien S Waits, Amanda D Clark, Dasia Y Simpson, **Randy L Klabacka**, Alexis P Sullivan, George H Perry, Michael W Sears, et al. (2021). "A chromosome-level genome assembly for the Eastern Fence Lizard (*Sceloporus undulatus*), a reptile model for physiological and evolutionary ecology." *GigaScience*.
- Klabacka, Randy L, Perry L Wood Jr, Jimmy A McGuire, Jamie R Oaks, L Lee Grismer, Jesse L Grismer, Anchalee Aowphol, and Jack W Sites Jr (2020). "Rivers of Indochina as potential drivers of lineage diversification in the spotted flying lizard (*Draco maculatus*) species complex." *Molecular Phylogenetics and Evolution*, p. 106861.
- Gangloff, Eric J, Tonia S Schwartz, **Randy L Klabacka**, Natalie Huebschman, Ang-Yu Liu, and Anne M Bronikowski (2020). "Mitochondria as central characters in a complex narrative: Linking genomics, energetics, and pace-of-life in natural populations of garter snakes." *Experimental Gerontology*, p. 110967.

^{*} mentored undergraduate student

Grismer, L Lee, Jr PL Wood, Shahrul Anuar, Marta S Grismer, ES Quah, Matthew L Murdoch, Mohd Abdul Muin, Hayden R Davis, Cesar Aguilar, **Randy L Klabacka**, et al. (2016). "Two new Bent-toed Geckos of the *Cyrtodactylus pulchellus* complex from Peninsular Malaysia and multiple instances of convergent adaptation to limestone forest ecosystems." *Zootaxa* 4105.5, pp. 401–429.

Davis, Hayden R, L Lee Grismer, **Randy L Klabacka**, Mohd Abdul Muin, Evan SH Quah, Shahrul Anuar, Perry L Wood Jr, and JW Sites Jr (2016). "The phylogenetic relationships of a new Stream Toad of the genus *Ansonia* Stoliczka, 1870 (Anura: Bufonidae) from a montane region in Peninsular Malaysia." *Zootaxa* 4103.2, pp. 137–153.

Manuscripts in-review and in-prep

* mentored undergraduate student

Sullivan, Kathryn A., **Randy L. Klabacka**, Allesandro Catenazzi, José Pérez Z, Pablo J. Venegas, Perry L. Wood Jr., Darren C. Browne, Claudia Koch, Jeroen P. van Leeuwen, Federico Valdez, Stuart V. Nielsen, Aaron M. Bauer, Jack W. Sites Jr., César Aguilar Puntriano, Eli Greenbaum, and Tony Gamble (2025). "One if by Land, Two if By Sea: Molecular Phylogeny and Biogeography of the Leaf-Toed Geckos (Phyllodactylidae: *Phyllodactylus*)." *in-review with Zoological Journal of the Linnean Society*.

Klabacka, Randy L., Geoffrey E. Hill, Damian K. Dowling, Joel Sharbrough, Robert D. Denton, and Justin C. Havird (2025). "Mitonuclear dynamics in unisexual vertebrates." *in-review with Philosophical Transactions of the Royal Society B*.

Ho, David, Aaron Odell, Tormey Duncan, Deimler Nathaniel, Valentine Patterson, Dai Tsuchiya, Randy L. Klabacka, Robert Schnittker, Diana Baumann, William Neaves, Anthony Barley, and Peter Baumann (2025). "Ancestral chromosome-level assemblies reveal post-hybridization genome evolution in the New Mexico whiptail lizard (*Aspidoscelis neomexicanus*)." in-review with Genome Biology and Evolution.

Klabacka, Randy L., Anne M. Bronikowski, Suzanne E. McGaugh, Dawn M. Reding, Daniel Nettleton, Andrew Lithio, Laurie S. Stevison, Jessica Judson, Baylee Christensen*, Reagan McKee*, Dante Celani*, and Tonia Schwartz (2024). "Evolution of targeted gene networks in divergent garter snake ecotypes." *in-prep for Aging Cell*.

Invited Seminars

- **2025**: Disentangling hybridity and clonality in mitonuclear coadaptation *Johannes Gutenberg University* Institute for Quantitative and Computational Biosciences, Mainz, Germany (*upcoming*)
- **2024**: What New Mexico's state reptile is teaching us about genetics New Mexico Tech University Biology Department Seminar Series
- **2024**: Using unisexual squamate reptiles to understand mitonuclear evolution Brigham Young University

 Department of Biology Seminar Series
- **2024**: Using unisexual squamate reptiles to understand mitonuclear evolution Brigham Young University

 Plant and Wildlife Sciences Seminar Series
- **2021**: Workshop on Fostering Idealogical Awareness

 Auburn University

 Teaching evolution to students of faith: How instructors can help students overcome barriers
- **2019**: Museum of Natural Science Seminar Series

 Louisiana State University

 Riverine barriers as drivers of biodiversification in terrestrial fauna of Southeast Asia

Presentations

- Klabacka, Randy L, Hailey Parry, Jeff Ryan Cook* Tori Herron* L Miles Horne* Yap, José Maldonado, Guillermo Álvarez, Andreas N Kavazis, Jamie R Oaks, Matthew K Fujita, and Tonia S Schwartz (n.d.). "Reduced endurance and mitochondrial respiration in hybrid asexual lizards (genus: *Aspidoscelis*)." In: *SICB 2021* (). Virtual Conference talk.
- Klabacka, Randy L, Anne Bronikowski, Suzanne McGaugh, Dawn Reding, Daniel Nettleton, Andrew Lithio, Laurie Stevison, Jessica Judson, and Tonia Schwartz (2025). "Uncoiling senescence: Using garter snakes to understand the genetics of aging." In: Society for Integrative and Comparative Biology Meeting. Atlanta, GA— talk.
- McKee*, Reagan, Dustin Kolste*, Jeremy Bakelar*, and **Randy L Klabacka** (2025). "Anuran stress response genes likely evolved from apolipoprotein gene ApoA-II." In: *Society for Integrative and Comparative Biology Meeting*. Atlanta, GA- poster.
- Everett*, Alexander, David Bean*, Syrus Miner*, Jeremy Bakelar, and **Randy L Klabacka** (2025). "A broad analysis of amino acid sequence conservation in two essential bacterial proteins of the beta-barrel assembly machinery." In: *Society for Integrative and Comparative Biology Meeting*. Atlanta, GA– poster.
- Fernández Lara*, Vicente, Angelina Romero*, Reagan McKee*, and Randy L Klabacka (2024). "Morphological and molecular examination of an invasive whiptail lizard between native and introduced populations." In: *Joint Congress on Evolutionary Biology*. Montreal, CA– poster.
- Everett*, Alexander, David Bean, Syrus Miner, Jeremy Bakelar, and **Randy L Klabacka** (2024). "A broad analysis nof amino acid sequence conservation in two essential bacterial proteins of the beta-barrel assembly machinery." In: *Joint Congress on Evolutionary Biology*. Montreal, CAposter.
- Everett*, Alexander, David Bean*, Syrus Miner*, Jeremy Bakelar, and **Randy L Klabacka** (2024). "A broad analysis nof amino acid sequence conservation in two essential bacterial proteins of the beta-barrel assembly machinery." In: *Joint Congress on Evolutionary Biology*. Montreal, CAposter.
- Johnson*, Candice, Dante Celani*, Seun Onileowo Onileowo*, and **Randy L Klabacka** (2023). "The effect of read-to-reference evolutionary relatedness on bioinformatic mapping efficiency of genomic sequencing data." In: *EVOLUTION 2023*. Albuquerque, NM poster.
- Christensen, Baylee*, Reagan McKee*, Dante Celani*, Candice Johnson*, Vicente Fernández Lara*, Kasia Poulsen*, Anne M Bronikowski, Suzanne E McGaugh, Dawn Reding, Andrew Lithio, Dan Nettleton, Laurie S Stevison, Jessica Judson, Tonia S Schwartz, and **Randy L Klabacka** (2023). "Comparing genetic divergence between biological groups using pair-wise population data, combinatorics, and a permutation test." In: *EVOLUTION 2023*. Albuquerque, NM poster.
- Day*, Ryland R, Syrus W D Miner*, Adam P Dimaio*, Justin P LeClair*, T Smith, Aaron P Davis, and **Randy L Klabacka** (2023). "An inertial measurement unit enhanced knee brace working to improve outcomes after surgery." In: *UCUR 2023*. University of Utah; Salt Lake City, UT poster.
- **Klabacka, Randy L**, Anne Bronikowski, Suzanne McGaugh, Dawn Reding, Daniel Nettleton, Andrew Lithio, Laurie Stevison, Jessica Judson, and Tonia Schwartz (2021). "Genomic and phenotypic evolution of targeted genenetworks in divergent garter snake ecotypes." In: *EVOLUTION 2021*. Virtual Conference talk.

^{*} mentored undergraduate student

Klabacka, Randy L, Hailey Parry, Jeff Ryan Cook* Tori Herron* L Miles Horne* Yap, José Maldonado, Guillermo Álvarez, Andreas N Kavazis, Jamie R Oaks, Matthew K Fujita, and Tonia S Schwartz (2020). "The powerhouse of asexual cost? Endurance and mitochondrial efficiency in parthenogenetic whiptail lizards (genus *Aspidoscelis*)." In: 9th Annual World Congress of Herpetology. University of Otago; Dunedin, NZ – talk.

- Klabacka, Randy L, P L Wood Jr, Jimmy A McGuire, Jamie R Oaks, L Lee Grismer, Jesse L Grismer, Anchalee Aowphol, and Jack W Sites Jr (2019). "Riverine barriers as potential drivers of biodiversification in the *Draco maculatus* species complex of Indochina." In: *Joint Meeting of Ichthyologists and Herpetologists*. Snowbird, UT talk *1st place in Henri Seibert Competition (Systematics & Evolution Category).
- Schwartz, Tonia S, Dawn Reding, **Randy L Klabacka**, Stephen Sephick, Laurie Stevison, and Anne M Bronikowski (2019). "Population genetics of the electron transport chain in snake populations exhibiting divergent resting metabolic rates." In: *Society for Integrative and Comparative Biology Meeting*. Tampa, FL poster.
- Klabacka, Randy L, José Maldonado, Andreas N Kavazis, Hailey Parry, Jamie R Oaks, Matthew K Fujita, and Tonia S Schwartz (2019). "Comparative examination of mitochondrial function in parthenogenetic whiptail lizards genus (*Aspidoscelis*)." In: *American Genetics Association Presidential Symposium*. Portland, OR poster.
- Cook*, Ryan, **Randy Klabacka L**, Sarin Tiatragul, Gabrielle Ripa, Kayla Wilson, and Jamie Oaks (2018). "Longitudinal examination of lungless salamander species (family Plethodontidae) morphology in Alabama." In: *COSAM Research Fair 2018*. Auburn University poster.
- Klabacka, Randy L, P L Wood Jr, Jimmy A McGuire, Jamie R Oaks, L Lee Grismer, Jesse L Grismer, Anchalee Aowphol, and Jack W Sites Jr (2018). "Bayes factor delimitation supports population structure in Southeast Asian species complex of Agamid lizard." In: Society for Systematic Biologists Meeting. The Ohio State University; Cleveland, OH poster.
- Schwartz, Tonia S, Dawn Reding, **Randy L Klabacka**, Stephen Sephick, Laurie Stevison, and Anne M Bronikowski (2017). "Targeted sequence capture for functional population genomics of genetic networks: Mapping approaches for non-model organisms." In: *Joint Meeting of Ichthyologists and Herpetologists*. Austin, TX poster.
- **Klabacka, Randy L**, P L Wood Jr, Jimmy A McGuire, L Lee Grismer, and Jack W Sites Jr (2017). "Speciation or isolated diversification: The hidden variation of *Draco maculatus*." In: *Society for Systematic Biologists Meeting*. Louisiana State University; Baton Rouge, LA talk.
- **Klabacka, Randy**, P L Wood Jr, and Jack W Sites Jr (2016). "Phylogeny and species boundaries in the "flying dragons" of the *Draco maculatus* species complex (family Agamidae)." In: *Utah Conference on Undergraduate Research*. University of Utah; Salt Lake City, UT poster.
- **Klabacka, Randy L**, P L Wood Jr, L Lee Grismer, Jimmy A McGuire, and Jack W Sites Jr (2016). "Hidden Dragons: The molecular composition of the *Draco maculatus* species complex." In: *South Eastern Population Ecology and Evolutionary Genetics Meeting*. Madison, FL talk.
- **Klabacka, Randy L**, P L Wood Jr, and Jack W Sites Jr (2015). "Phylogeny and species boundaries in the "flying dragons" of the *Draco maculatus* species complex (family Agamidae)." In: *HBLL BYU Poster Competition*. Brigham Young University; Provo, UT poster *3rd Place.
- Klabacka, Randy L, César Aguilar, Aaron M Bauer, Alessandro Catenazzi, Eli Greenbaum, Jack W Sites Jr, F Faldez, Perry L Wood Jr, Ryan Wilkes, and Tony Gamble (2015). "Phylogeny and biogeography of New World leaf-toed geckos, *Phyllodactylus* (Phyllodactylidae: Gekkota)." In: Society for the Study of Amphibians and Reptiles Meeting. University of Kansas; Lawrence, KA poster.

Mentorship

I have mentored 25 undergraduate students in bioinformatics, field biology, and molecular lab work. Three of these undergraduates published research with me as co-authors. Current positions of these students include veterinary school, hydrology technician, M.S./Ph.D. evol/ecol graduate school, undergraduate research assistant, and working on manuscripts for peer-reviewed publications.

Teaching Experience

Course Instructor	Course Type
Utah Tech University	
O 2024: BIOL 4010: Molecular Evolution	In-person .
2023,2024: BIOL 4320: Scripting for Biologists	In-person
2023,2024: BIOL 3030: Principles of Genetics	In-person
• 2023,2024: BIOL 2300: Fundamentals of Bioinformatics	In-person
O 2023,2024: BIOL 4310: Advanced Bioinformatics	In-person
Auburn University O 2022: BIOL 7180: Scripting for Biologists	Online and Synchronous
• 2021: BIOL 3000: Genetics	Online and Asynchronous
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Teaching Assistantships	Instructor(s)
Auburn University	
• 2021: BIOL 7180: Scripting for Biologists	Jamie Oaks
O 2020: BIOL 4020: Vertebrate Biodiversity Lab	Dan Warner
o 2020 : BIOL 5740/6740: Herpetology Lab	Jamie Oaks & Dan Warner
O 2019: BIOL 4020: Vertebrate Biodiversity Lab	Joshua Hall
O 2018: BIOL 5240/6240: Animal Physiology Lab	Ray Henry
O 2017-2019: BIOL 5600/6600: Biomedical Physiology Lab	Mary Mendonca
o 2016: BIOL 2501: Anatomy and Physiology Lab	Shobnom Ferdous
Brigham Young University	Kaani Kausua and Buran Adams
 2014-2016: BIO 130 Lecture: Principles of Biology 2013-2014: BIO 130 Lab: Principles of Biology 	Keoni Kauwe and Byron Adams Jamie Jensen
2013-2014. BIO 130 Lab. Frinciples of Biology	Janne Jensen
Guest Lectures	Instructor(s)
Brigham Young University	
2024 : Herpetology (BIO 445)	My journey as a herpetologist
• 2016: Principles of Biology	The domains of life
• 2016: Principles of Biology	The central dogma of biology
Utah Tech University O 2023,2024: Principles of Biology (BIOL 1610)	Overview of Bioinformatics
• 2023,2024: Principles of Biology (BIOL 1010)	Mendel and the Gene Idea
• 2023,2024: Principles of Biology (BIOL 1010) • 2023,2024: Principles of Biology (BIOL 1610)	Cell Division
Auburn University	Cell Division
2021: Mitonuclear Ecology (BIOL 6750)	The evolution of sex
,	wing random number generators
o 2021: Scripting for Biologists (BIOL 7180)	Implementing regular expressions

2021: Scripting for Biologists (BIOL 7180)	Introduction to Biopython
2019: Vertebrate Biodiversity (BIOL 4020)	Amphibian Life History Strategies
 2018: Functional Genomics (BIOL 5850/6850) 	Using high-throughput sequencing for targeted genes
○ 2018 : Evolution and Systematics (BIOL 3030	Early evolutionary ideas- Tree thinking

Professional Development

o 2025: Y Faculty Institute ("Y-Fi")

NSF-created, BYU-supported

- Completed week-long, in-person course focused on reforming classrooms into student-centered places of learning.
- 2023: Microcredential Course: Promoting Active Learning

Organizer: ACUE
g. Satisfied expectations

- Completed course in effective teaching practices focused on techniques in active learning. Satisfied expectations of the course, including successful completion of 6 modules of learning and implementation.
- 2021: Fostering ideological awareness professional workshop

Organizer: Dr. Abby Beatty

- Week-long, inter-institutional workshop where collaborators presented research and collaboratively created open-source course modules for contextualizing societal and ethical impacts of applied biology.
- o 2020: Inroduction to Discipline-Based Education Research graduate course Instructor: Dr. Cissy Ballen
 - Semester-long graduate course focused on topics, literature, and methods of discipline-based education research, with an emphasis on active-learning teaching strategies. As part of this course, we published a manuscript on barriers to introductory biology students (see Tracey et al. in Manuscripts In-review section)
- 2018: Engaged and Active Student Learning professional workshop
 Host: AU Biggio Center
 - Half-day workshop, literature, and methods of discipline-based education research, with an emphasis on active-learning teaching strategies.

Field Experience

2024: Led team of seven in UT, AZ, NM and TX and collected 70 Aspidoscelis neomexicanus	1 month
2023: Assisted with animal capture and tail sampling of 300 Phrynosomatids in Grand Canyon	7 days
2021: Assisted with animal capture and respirometry of Thamnophis elegans in CA	10 days
2021: Assisted with animal capture processing of 8 Anolis species in FL	5 days
2020: With team of 3 collected 200 live Anolis sagrei for lab breeding colony	2 days
2019: Led team of five in NM and TX and collected 50 live Aspidoscelis of five species	1 month
2018: Led team of four in NM and TX and collected 210 Aspidoscelis of 12 species	2 months
2017: Led team of two to validate potential Aspidoscelis collection localities	3 weeks
2016: Collected various herpetofauna for BYU Bean LS Museum in Thailand and Malaysia	3 weeks
2015: Collected morphological data from live Crotalus oreganus lutosus	1 day
2014: Participated in neotropical biology and geology field course in Costa Rica	2 weeks
2013: Counted egg masses & recorded localities for Rana luteiventris habitat restoration	1 day

Research Assistantships

Research Focus	Principle Investigator(s)
O Summer 2022: Museum Curatorial Assistant	Jon Armbruster and David Laurencio
O Summer 2021: Phylogenetics and Functional Genomics	Jamie Oaks and Tonia Schwartz
O Summer 2020: Phylogenetics	Jamie Oaks
O Summer 2019: Phylogenetics	Jamie Oaks
O Summer 2018: Functional Genomics	Tonia Schwartz
○ 2013-16: Phylogenetic Systematics	Jack Sites

o 2013-16: Metabolic Physiology and Bioenergetics

Chad Hancock

Creator

Outreach and Community Service

Brigham Young University

2025: Iguanathon Organizer and supervisor Beaver Dam Wash Conservation Area

2020-present: QuickGRITS podcast: link (available on Spotify)

Utah Tech University

2024: Iguanathon Organizer and supervisor
 2023: Bioinformatics guest lecture
 2023: Bioinformatics Q&A
 2024: UT STEM Outreach; Hurricane HS Comp Sci class
 2025: Museum tour guide
 2026: Museum of Natural Sciences; Utah Tech University

2023: Virgin river litter collector Bi-annual Virgin River Cleanup; UT Biological Sciences Department

Auburn University

2022: "Gross Out Camp" Museum Instructor

2020: Chief Science Officers "Zoom In On Science" Guest

2020: Chief Science Officers "Zoom In On Science" Guest

2020: Chief Science Officers "Zoom In On Science" Guest

2021: Volunteer Field Ornithology TA

2021: Member of the Snake Response Team

2020: Chief Science Officers "Zoom In On Science" Guest

2021: SciTech Institute; Sonora, Mexico

2021: Volunteer Field Biology Course

2021: Member of the Snake Response Team

2021: Member Officers "Zoom In On Science" Guest

2022: SciTech Institute; Sonora, Mexico

2023: Volunteer Field Biology Course

2024: Member Officers "Zoom In On Science" Guest

2025: SciTech Institute; Sonora, Mexico

2026: Volunteer Field Biology Course

2027: Member Officers "Zoom In On Science" Guest

2028: SciTech Institute; Sonora, Mexico

2029: UTEP-IMRS Field Biology Course

2020: UTEP-IMRS Field Biology Course

2020: Boy Scouts of America

2020: Auburn University

Department Service Positions

Brigham Young University

2015-16: Co-president/founder of Life Sciences Pre-Graduate Student Club

BYU

Utah Tech University

2023-2025: Bioinformatics Program Coordinator
 2023-2025: IACUC Member
 2023-2025: Biological Sciences Poster Judge
 Biannual Poster Competition; UT Biological Sciences Dept

Auburn University

2020-2022: DBS Seminar Committee Grad Representative Auburn University 2022: DBS Seminar Host Chair - Brandon Ogbunu Visit (Princeton) Auburn University 2021: DBS Seminar Host Committee Member - Rebecca Tarvin Visit (UC- Berkeley) Auburn University 2019: Grad Representative - Global Change Biology Hiring Committee Auburn University 2018: DBS Seminar Host Chair - Matt Fujita Visit (UT- Arlington) Auburn University 2016-2018,2022: Natural History Museum Open House Representative Auburn University 2018: DBS Seminar Host Chair - Marjorie Oleksiak Visit (U Miami) Auburn University **2017**: DBS Seminar Host Committee Member - Peter Andolfatto Visit (Princeton) Auburn University 2017: DBS Seminar Host Committee Member - Armin Moczek Visit (Indiana Univ) Auburn University

University Service Activities

Brigham Young University

2015: Host for the BYU-sponsored "Night at the Museum" Monte L. Bean Life Science Museum

2014: Tour guide for LSB opening- President's Leadership Council dinner Brigham Young University

Utah Tech University

2023: Lead Organizer and Host for Dr. Perry Ridge visit

Utah Tech University Forum

2023: Organizer and Panel Member for Grad School Q&A

Utah Tech University

2023: Panel Member for Undergraduate Research
 2023: STEM Poster Judge
 Trailblazer Connections; UT Welcome Week
 2023: Trailblazer Symposium; Utah Tech University

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Auburn University

2021: Safe techniques for handling snakes: Instructor

E. W. Shell Fisheries, Auburn University

2019: STEM Discovery Day instructor

Auburn University

Field of Discipline Service

2025: DPCB Wake Poster Award Judge SICB, Atlanta, GA

2024: ASN Ruth Patrick Student Poster Award Judge
 2024: ASN Outstanding Student Poster Award Judge
 2024: ASN Outstanding Student Poster Award Judge
 2024: Evolution Meeting, Albuquerque, NM

2024: Best Salamander Poster Award

World Congress of Herpetology, Dunedin, NZ

Scholarly Reviewer

Molecular Ecology
Biological Journal of the Linnean Society
Genome Biology and Evolution
Ecology and Evolution
Herpetologica
Entomology, Ornithology, & Herpetology: Current Research
Reptiles & Amphibians

Grant Panelist

National Science Foundation (NSF) Czech Science Foundation (GACR)

Professional Memberships

Society for the Study of Amphibians and Reptiles (SSAR) Society for Integrative and Comparative Biology (SICB) Society for the Study of Evolution (SSE)