

Emily E. Puckett

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<https://PuckettResearch.org/>

RESEARCH EXPERIENCE

2024-present Associate Professor: University of Memphis, Memphis, TN
2018-2024 Assistant Professor: University of Memphis, Memphis, TN
2017-2018 Postdoctoral Associate: Michigan State University, East Lansing, MI
(PI: G Bradburd)
2015-2017 Postdoctoral Associate: Fordham University, Bronx, NY (PI: J Munshi-South)
2010-2015 Graduate Assistant: University of Missouri, Columbia, MO (Advisor: LS Eggert)
2008-2010 Research Associate III: Edenspace Systems Corporation, Chantilly, VA
2006-2008 Research Project Assistant: SUNY- College of Environmental Science and
Forestry, Syracuse, NY (Advisor: LB Smart)
2005-2006 Research Assistant: University of North Carolina, Chapel Hill, NC
(PI: CE Mitchell)

EDUCATION

2015 PhD University of Missouri, Columbia, MO; Biological Sciences
Certificate: Science and Public Policy, 2013
2008 MS State University of New York- College of Environmental Science and
Forestry, Syracuse, NY; Environmental and Forest Biology
2004 BS North Carolina State University, Raleigh, NC; Botany (*summa cum laude*)

GRANTS

External

2025-2029 NSF- Division of Environmental Biology
Genetics of Polar Bear Hair, Skin Color: Adaptations to the Arctic Environment
PI: **EE Puckett**; co-PIs: GS Barsh and C Lannoye-Hall
Total: \$1,878,726 (UofM: \$1,333,626; Stanford: \$415,224; Detroit Zoo: \$129,876)

2024-2026 NIH- National Institute on Aging
Hair-greying and Melanocytic Regulation in a Non-model Organism
PI: GS Barsh; co-PI: **EE Puckett**
Total: \$401,900 (Stanford: \$227,900; UofM: \$174,000)

2022-2026 National Fish and Wildlife Foundation
Building a Future for the Louisiana Black Bear through Habitat Restoration,
Public Relations, and Genomic Rescue Planning
PI: **EE Puckett**; co-PI: J Hanks

Total: \$389,999 (UofM: \$180,468; LDWF: \$209,531)

- 2021-2026 Alaska Department of Fish and Game
Landscape Genomics within a Sympatric Population of Brown (*Ursus arctos*) and American Black (*U. americanus*) Bears in Southeast Alaska
PI: **EE Puckett**
Total: \$101,660
- 2018-2019 New Mexico Department of Game and Fish and US Fish and Wildlife Service
Range-wide assessment of genomic diversity, demography, and subspecies status for the least (*Tamias minimus*) and Colorado (*T. quadrivittatus*) chipmunks
PI: **EE Puckett**
Total: \$52,664

Internal to the University of Memphis

- 2020 Faculty Research Grant, College of Arts and Sciences
Using Whole Genome Resequencing to Identify Low Diversity Regions of the Genome in Louisiana Black Bear (*Ursus americanus luteolus*) Subpopulations to Target during Genetic Rescue
Total: \$7,181

PUBLICATIONS

Puckett Mentees: ¹ Undergraduate; ² Graduate

- 31- Todt, LAD, **EE Puckett**, D White Jr., R Rummel, J Hanks, LP Waits, and DJ Morin. (Accepted) Patterns of genetic admixture in a naturally recolonizing American black bear population in Mississippi reveals recent shifts in range expansion in the Lower Mississippi Alluvial Valley, USA. *Conservation Genetics*.
- 30- Peede, D, A Durvasula, A Ignatieva, TGL Kovacs, AN Heredia, **EE Puckett**, and ET Chevy. (In Press) Not just N_e N_e -more: New applications for SMC from Ecology to Phylogenies. *Genome Biology and Evolution*.
- 29- **Puckett, EE**. 2025. Response to Kishida *et al.* (2022): Asian black bears show stronger introgression signal with brown than American black bears. *Ecological Research* 40(5): e70004.
- 28- Clendenin, HR², MD Pollard², and **EE Puckett**. 2025. Linking measures of inbreeding and genetic load to demographic histories across three species of bears. *Evolutionary Applications* 18(7): e70133.
- 27- de Jong, MJ, M Awan, N Lecomte, **EE Puckett**, AP Crupi, and A Janke. 2025. Population-genomics reveals the dual ancestry of grizzly bears. *iScience*: 112870.
- 26- **Puckett, EE**. 2025. Phylogeography of introgression: Spatial and temporal analyses identify two introgression events between brown and American black bears. *Heredity* 134: 331-342.
- 25- Pollard, MD², W Meyer, and **EE Puckett**. 2024. Convergent relaxation of molecular

constraint in herbivores reveals the changing role of liver and kidney functions across mammalian diets. *Genome Research* 34: 2176-2189.

- Cover Article

- 24- **Puckett, EE**, IS Davis¹, DC Harper, K Wakamatsu, G Battu, JL Belant, DE Beyer, C Carpenter, AC Crupi, M Davidson, CS DePerno, N Forman, NL Fowler, DL Garshelis, N Gould, K Gunther, M Haroldson, S Ito, D Kocka, C Lackey, R Leahy, C Lee-Roney, T Lewis, A Lutto, K McGowan, C Olfenbuttel, M Orlando, A Platt, MD Pollard², ME Ramaker, H Reich, JL Sajecki, SK Sell, J Strules, S Thompson, F van Manen, C Whitman, R Williamson, F Winslow, C Kaelin, MS Marks, and G Barsh. 2023. Genetic architecture and evolution of color variation in American black bears. *Current Biology* 33: 86-97.
- Media Coverage: New York Times, Cottage Life Magazine, Bear Hunting Magazine
- 23- **Puckett, EE** and IS Davis¹. 2021. Spatial patterns of genetic diversity in eight bear (Ursidae) species. *Ursus* 32e20.
- 22- **Puckett, EE**, S Murphy, and G Bradburd. 2021. Phylogeographic analysis delimits three evolutionary significant units of least chipmunks and identifies unique genetic diversity within *Neotamias minimus atristriatus*, an imperiled population. *Ecology and Evolution* 11: 12114-12128.
- 21- Pedersen, MW, B De Sanctis, NF Saremi, M Sikora, **EE Puckett**, Z Gu, KL Moon, JD Kapp, L Vinner, Z Vardanyan, CF Ardelean, J Arroyo-Cabrales, JA Cahill, PD Heintzman, G Zazula, RDE MacPhee, B Shapiro, R Durbin, and E Willerslev. 2021. Environmental genomics of American black bear and the extinct short-faced bear. *Current Biology* 31: 2728-2736.
- Media Coverage: Popular Mechanics, Smithsonian Magazine, Science Daily
- 20- Sjodin, B, **EE Puckett**, R Irvine, G Howald, J Munshi-South, M Russello. 2021. Global origins of invasive brown rats (*Rattus norvegicus*) in the Haida Gwaii archipelago. *Biological Invasions* 23: 611-623.
- 19- **Puckett, EE**, E Sherratt, M Combs, E Carlen, W Harcourt-Smith, and J Munshi-South. 2020. Variation in brown rat cranial shape shows directional selection in nasal and tooth row lengths over 120 years in New York City. *Ecology and Evolution* 10(11): 4739-4748.
- 18- **Puckett, EE**, D Orton, and J Munshi-South. 2020. Integrating phylogeography and zooarchaeology of commensal rats to understand connections between human societies. *BioEssays* 42: 1900160.
- Cover Article
- 17- **Puckett, EE**, E Magnussen, LA Khyllap, TM Strand, A Ludkvist, and J Munshi-South. 2020. Genomic analyses reveal three independent introductions of the invasive brown rat (*Rattus norvegicus*) to the Faroe Islands. *Heredity* 124 (1): 15-27.
- Cover Article
 - Media Coverage: Heredity Podcast
- 16- Burkhart, JJ, **EE Puckett**, CJ Kroese, CN Sholy, RD Semlitsch, and LS Eggert. 2019. Post-Pleistocene differentiation in a Central Interior Highlands endemic salamander. *Ecology and Evolution* 9(19): 11171-11184.
- 15- **Puckett, EE** and J Munshi-South. 2019. Brown rat demography reveals pre-commensal

- structure in eastern Asia prior to expansion into Southeast Asia. *Genome Research* **29**: 762-770.
- 14- **Puckett, EE**, O Micci-Smith¹, and J Munshi-South. 2018. Genomic analyses identify multiple Asian origins and deeply diverged mitochondrial clades in inbred brown rats (*Rattus norvegicus*). *Evolutionary Applications* **11** (5): 718-726.
- 13- Kristensen, TV, **EE Puckett**, EL Landguth, JL Belant, JT Hast, C Carpenter, JL Sajecki, J Beringer, M Means, JT Cox, LS Eggert, D White Jr, KG Smith. 2018. Genetic structuring in American black bears (*Ursus americanus*) can be explained by more than female philopatry: interactions of density, genetic diversity, and sex-biased dispersal. *Heredity* **4**: 329-341.
- Cover Article
- 12- Combs, M, **EE Puckett**, JR Richardson, D Mims¹, and J Munshi-South. 2018. Spatial population genomics of the brown rat (*Rattus norvegicus*) in New York City. *Molecular Ecology* **27**: 83-98.
- Media Coverage: NPR, The Atlantic, Popular Science
- 11- **Puckett, EE**. 2017. Variability in total project and per sample genotyping costs under varying study designs including with microsatellites or SNPs to answer conservation genetic questions. *Conservation Genetics Resources* **9** (2): 289-304.
- 10- **Puckett, EE**, J Park, M Combs, MJ Blum, JE Bryant, A Caccone, F Costa, EE Deinum, A Esther, CG Himsforth, PD Keightley, A Ko, A Lundkvist, LM McElhinney, S Morand, J Robins, J Russell, TM Strand, O Suarez, L Yon, and J Munshi-South. 2016. Global population divergence and admixture of the brown rat (*Rattus norvegicus*). *Proceedings of the Royal Society B* **283**: 20161762.
- Media Coverage: New York Times, Popular Science, and Business Insider
- 9- **Puckett, EE**, DC Kesler, and DN Greenwald. 2016. Taxonomic class, petitioning agency, and lawsuits affect time spent awaiting listing under the Endangered Species Act. *Biological Conservation* **201**: 220-229.
- Media Coverage: Huffington Post
- 8- Wilton, CM, J Beringer, **EE Puckett**, LS Eggert, and JL Belant. 2016. Spatio-temporal capture-recapture biases in black bear detection probability. *Journal of Mammalogy* **97**: 266-273.
- 7- **Puckett, EE** and LS Eggert. 2016. Comparison of SNP and microsatellite genotyping panels for spatial assignment of individuals to natal range: A case study using the American black bear (*Ursus americanus*). *Biological Conservation* **193**: 86-93.
- 6- **Puckett, EE**, PD Etter, EA Johnson, and LS Eggert. 2015. Phylogeographic analyses of American black bears (*Ursus americanus*) suggest four glacial refugia and complex patterns of post-glacial admixture. *Molecular Biology and Evolution* **32**: 2338-2350.
- 5- Wilton, CM, **EE Puckett**, J Beringer, B Gardner, LS Eggert, and JL Belant. 2014. Trap array configuration influences estimates and precision of black bear density and abundance. *PLoS One* **9**(10): e111257.
- 4- **Puckett, EE**, TV Kristensen, CM Wilton, SB Lyda, KV Noyce, PM Holahan, DM Leslie, Jr, J Beringer, JL Belant, D White, Jr, and LS Eggert. 2014. Influence of drift and admixture on population structure of American black bears (*Ursus americanus*) in the Central Interior Highlands, USA 50 years after translocation. *Molecular Ecology* **23**: 2414-2427.
- 3- **Puckett, EE**, MJ Serapiglia, AM DeLeon¹, S Long, R Minocha, and LB Smart. 2012.

Differential expression of genes encoding phosphate transporters contributes to arsenic tolerance and accumulation in shrub willow (*Salix* spp.). *Environmental and Experimental Botany* 75: 248-257.

2- Hudson, CM, **EE Puckett**, M Bekaert, JC Pires, and GC Conant. 2011. Selection for higher gene copy number after different types of plant gene duplication. *Genome Biology and Evolution* 3: 1369-1380.

1- Mitchell, CE, D Blumenthal, V Jarosik, **EE Puckett**, P Pysek. 2010. Controls on pathogen species richness in plants' introduced and native ranges: roles of residence time, range size and host traits. *Ecology Letters* 13 (12): 1525-1535.

PREPRINTS

Pollard, MD² and **EE Puckett**. 2022. Evolution of degrees of carnivory and dietary specialization across Mammalia and their effects on diversification rate at different taxonomic levels. *bioRxiv*: <https://doi.org/10.1101/2021.09.15.460515>

BOOK CHAPTERS

Puckett, EE and LS Eggert. 2020. "Using genetics in the conservation management of the American black bear (*Ursus americanus*) in Missouri." IN: J Ortega and JE Maldonado (eds.), *Conservation Genomics in Mammals: integrative research using novel approaches*. Springer, New York.

IN REVIEW

Douchinsky, PR², AP Crupi, Y Kwon, JN Waite, and **EE Puckett**. (*In Review*) Detecting changes in distribution and abundance using harvest data in two sympatric bear species in Southeast Alaska.

Timsinia, D, **EE Puckett**, S Allison, and F Sabri. (*In Review*) Analysis of heating and cooling rates of polar bear hair by means of phosphor thermometry: A feasibility study.

MANUSCRIPTS

Tocco, NS, D Martin, C Garrett, **EE Puckett**, E Reinhardt, M Rusczyk, and N Mishra. (*In Prep*) GM1-gangliosidosis in three juvenile American black bears (*Ursus americanus*) in Connecticut between 2020 and 2023.

Puckett, EE and HR Clendenin². (*In Prep*) Population specific bottlenecks inflated differentiation of Louisiana black bear and negate subspecific status.

DISSERTATION & THESIS

2015 Phylogeography and Population Genomics of the American Black Bear (*Ursus americanus*). PhD Dissertation, University of Missouri, p 190.

2008 Molecular Basis for Differential Uptake and Sensitivity to Arsenic among Clones of Shrub Willow (*Salix* spp.). MS Thesis, SUNY-ESF, p 168.

RESEARCH TALKS

Invited

Stanford University: Palo Alto, CA	2025
Duquesne University: Pittsburgh, PA	2024
Arkansas State University- UandI-DEECODE: Jonesboro, AR	2024
University of Florida: Gainesville, FL	2023
HudsonAlpha: Huntsville, AL	2023
National Genomics Center for Wildlife and Fish Conservation: <i>Virtual</i>	2022
Mississippi State University: Starkville, MS	2022
University Tennessee Health Science Center: Memphis, TN	2021
Canadian Society for Ecology and Evolution: Edmonton, AB	<i>Canceled Covid-19</i>
University of Mississippi, Biology Department: Oxford, MS	2019
Association of Southeastern Biologists: Memphis, TN	2019
University of Memphis: Memphis, TN	2018
Evolution Meeting, Evolution in Urban Environments Symposium: Portland, OR	2017
Yale University, DNA Analysis Facility: New Haven, CT	2017
24 th International Bear Association: Anchorage, AK	2016
Fordham University, Biology Department: Bronx, NY	2016
Missouri Chapter of The Wildlife Society: Bois D'Arc Conservation Area, MO	2013
Missouri Department of Conservation: Columbia, MO	2013

Contributed

28 th International Bear Association: Edmonton, AB, Canada	2024
Evolution Meeting: Cleveland, OH	2022
27 th International Bear Association: <i>Virtual</i>	2021
Evolution Meeting: <i>Virtual</i>	2021
26 th International Bear Association: Kalispell, MT	<i>Canceled Covid-19</i>
Evolution Meeting: Austin, TX	2016
SMBE-GAP Genetics of Admixed Populations: San Antonio, TX	2016
NY Area Population Genomics Workshop: Princeton, NJ	2016
University of Missouri, Life Sciences Fellows: Columbia, MO	2014
Evolution Meeting: Snowbird, UT	2013
University of Missouri, EcoLunch: Columbia, MO	2013

Public

NerdNight Memphis, Memphis, TN	2024
Biology on Tap, Lansing, MI	2018

POSTER PRESENTATIONS

SMBE: Puerto Vallarta, Mexico	2024
14 th Western Black Bear Workshop: Jackson, WY	2024
SMBE- Molecular Evolution in Small Populations: Princeton, NJ	2023
25 th Eastern Black Bear Workshop: Trego, WI	2023
SMBE: <i>Virtual</i> SMBEverwhere (S1)	2022
American Genetics Association: Snowbird, UT	2021

Evolution Meeting: Providence, RI	2019
24 th Eastern Black Bear Workshop: Potosi, MO	2019
13 th Western Black Bear Workshop: Grand Junction, CO	2018
23 rd Eastern Black Bear Workshop: Ligonier, PA	2017
Bronx Science Consortium: Bronx, NY	2016
Ecological and Evolutionary Genomics, Gordon Research Conference: Biddeford, ME	2015
12 th Western Black Bear Workshop: Canamore, AB	2015
22 nd Eastern Black Bear Workshop: Louisville, MS	2015
12 th Ecological Genomics Symposium: Kansas City, MO	2014
Life Sciences Week, University of Missouri: Columbia, MO (3 rd place- Best EEB Poster)	2014
11 th Ecological Genomics Symposium: Kansas City, MO	2013
Life Sciences Week, University of Missouri: Columbia, MO	2013
10 th Ecological Genomics Symposium: Kansas City, MO	2012
Evolution Meeting: Ottawa, ON	2012
11 th Western Black Bear Workshop: Coeur d'Alene, ID	2012
Life Sciences Week, University of Missouri: Columbia, MO	2012
Ecological and Evolutionary Genomics, Gordon Research Conferences: Biddeford, ME	2011
20 th Eastern Black Bear Workshop: Hendersonville, NC	2011
Northeast Section, American Society of Plant Biologists: Storrs, CT	2008
Symposium in Plant Biology, University of Massachusetts: Amherst, MA	2007
Ecological Society of America: San Jose, CA	2007

TEACHING EXPERIENCE

Instructor on Record- University of Memphis

2020-present	BIOL 3072: General Genetics (Annually; 3 credits)
2025	Sabbatical to Standford University (Spring)
2024	BIOL 7000/8000: Orientation to Graduate School (Fall; 2 credits)
2023	BIOL 7104/8104: Speciation (Fall; 3 credits)
2022	BIOL 4090/ANTH 4992/POLI 3700: Conservation Biology, People, and Policy (Fall; 4 credits lecture and lab; Interdisciplinary and co-taught with T. Maclin from Anthropology)
2021	BIOL 7104/8104: Speciation (Fall; 3 credits)
2020	BIOL 7104/8104: Speciation (Fall; 3 credits)
2020	UNHP 1100: Honors Forum: Women in Science (Spring; 1 credit)
2018	BIOL 7104/8104: Speciation (Fall; 3 credits)

Guest Lectures

2025	Phylogeography, ESCI 4252/6252: Global Environmental Change, University of Memphis
2022	Phylogeography, BIOL 4983: Molecular Ecology, University of Missouri
2019	Phylogeography, BIOL 4096: Molecular Ecology, University of Memphis
2017	RADseq, American Museum of Natural History
2017	Molecular Phylogenetics, BISC 3244: Evolution, Fordham University

2017 Natural Selection, BISC 3244: Evolution, Fordham University
2016 Genomic Evolution, BISC 7501: Population Biology, Fordham University
2015 Evolution of Sex, BISC 3244: Evolution, Fordham University
2013 Phylogeography, BIO 4983: Molecular Ecology, University of Missouri

Teaching Assistant

2014-2015 Teaching Assistant, BIO 2200: General Genetics, University of Missouri
2008 (Spring) Teaching Assistant, EFB 531: Plant Physiology Laboratory, SUNY-ESF
2003 (Fall) Teaching Assistant, BCH 451: Principles of Biochemistry, NC State University

GRADUATE MENTORING

2025-present Nicholas T. Krell
2025-present Ellen M. Houston
2021-2024 Philip R. Douchinsky
MS Thesis: *Comparative landscape genetics and dynamics in demography within sympatric ursids in Southeast Alaska*
Current Position: PhD Student, U Montana
2020-present Heather R. Clendenin
2019-2024 Matthew D. Pollard
PhD Dissertation: *Mammalian trait evolution: Macroevolutionary and comparative genomic analyses of diet and Ursid-specific adaptations*
Current Position: Postdoctoral Research, U Mass- Chan Hospital

GRADUATE COMMITTEE SERVICE- University of Memphis

2025-present Yihang Li (PI: Duane McKenna)
2023-2024 Sam Drewry (PI: Jennifer Mandel)
2023-2024 Serena Blais (PI: Jennifer Mandel)
2020-2021 Paige Murin (PI: Jennifer Mandel)
2019-2020 Steven M. Ballou (PI: Jennifer Mandel)
2018-2019 Caroline Melton (PI: Bernie Daigle)
2018-2023 Avery Tucker (PI: Shawn Brown)

GRADUATE COMMITTEE SERVICE- Other

2023-present Josh Robinson (PI: Jan Janecka; Duquesne University, Pittsburgh, PA)
2023-present Faezeh Azimi Chetabi (PI: Aaron Shafer; Trent University, Peterborough, ON)

UNDERGRADUATE MENTORING (¹- denotes co-author)

2026-present Anna Wright
• Project: *Latitudinal variation of methylation-based ages*
2025-present Subhana Mufti
• Data collection
2023-2024 Kat Harris
• Project: *Adaptive potential of American black bears*

- 2023 Samantha Lewis
 - UofM Works in Progress Symposium 2024- Oral Talk (1st place)
 - Career exploration
- 2023 Karrah Van Horn
 - Career exploration
- 2023-2024 Delaney Viner
 - Project: *Adaptation among the eastern lineage of American black bears*
- 2023 Kayla Moscon
 - DNA extractions
- 2023 (Hiyab) Abby Williams
 - DNA extractions
- 2023 Lauren McNary
 - Data analysis
- Summer 2022 Danielle McConnell (HS student Mississippi School of Science)
 - Career exploration
- 2022-2024 Alexandria Kerr
 - Project: *Characterizing the hollow medulla trait within brown bear hair*
 - UofM Student Research Forum 2023- Poster (1st place)
 - Honors College Summer Research Fellow- 2023
 - UofM Works in Progress Symposium 2023- Oral Talk (2nd place)
 - Posters at the Capital- Poster
 - Biological Sciences Faculty Award- 2024
- 2021-2024 Brian Wentzloff
 - Project: *Characterizing the hollow medulla trait within brown bear hair*
 - UofM Student Research Forum 2023- Poster (1st place)
- 2021-2022 Caleigh Holley
 - Project: *Genetic basis of black bear chest blazes*
 - UofM Student Research Forum 2022- Poster (1st place)
 - Chi Beta Phi Science Award- 2022
- 2020-2021 Samhitha Swarna
 - Data collection
- 2020-2021 Heather Thomasovich
 - Data collection
- 2020 Ravi Lipman
 - Data organization
- 2018-2022 Isis Davis¹
 - Project: *Global spatial genetic variation across Ursidae*
 - NSF GRF 2022- Recipient
 - Biological Sciences Faculty Award- 2022
 - U of Memphis Student Research Forum 2020- Oral Talk (1st place)
 - TLSAMP Annual Research Conference 2020- Oral Talk (2nd place)
- 2017- 2018 Sarah Frocillo
 - Project: *Variation in isolation-by-distance in marine species along the Scotian shelf*

- Michigan State University Undergraduate Research and Arts Forum 2018-Poster
- 2016- 2017 Olivia Micci-Smith¹
 - Project: *Geographic origin of inbred brown rats using genomic data*
 - Evolution Meeting 2017- Poster
- Summer 2016 Destiny Mims¹
 - Project: *Sex-biased dispersal of brown rats in New York City*
 - Evolution Meeting 2017- Poster
- 2011- 2013 Michelle Anderson
 - Project: *Geographic variation in CLOCK and FTO in American black bears*
 - University of Missouri- Life Sciences Week 2013- Poster
- 2011- 2012 Jessica (Philbrick) Wayhart
 - Project: *Mitochondrial phylogeography of American black bears*
 - University of Missouri- Life Sciences Week 2012- Poster
- 2007- 2008 Alyssa DeLeon¹
 - Project: *Molecular analysis of genes related to arsenic uptake and detoxification in sensitive and tolerant varieties of shrub willow (*Salix* spp.)*
 - American Society of Plant Biologists 2009- Poster

PROFESSIONAL SERVICE- Bear Community

- 2026-present Member, IUCN North American Bear Expert Team
- 2024-present Secretary, International Association for Bear Research and Management
- 2016-2020 Member, IUCN Bear Specialist Group

PROFESSIONAL SERVICE- Academic Community

- 2025 Panelist, NSF advisory panel
- 2024 Panelist, NSF advisory panel
- 2023-present Associate Editor, *Ursus*
- 2020 Panelist, NSF advisory panel
- 2019 Panelist, NSF advisory panel
- 2019-present Associate Editor, *Ecology and Evolution*
- 2012-present Journal Reviewer (42 peer reviewed journals)

U of MEMPHIS- DEPARTMENT of BIOLOGICAL SCIENCES SERVICE

- 2025-present Member, Strategic Planning Committee
- 2024-present Member, Tenure and Promotion Committee
- 2023-present Member, Graduate Studies Committee
- 2021-present Founder and Senior Drill Sergeant, GRFP Bootcamp
 - 4 awards and 1 honorable mention (from 9 applications) for Biological Sciences students totaling \$306,000
- 2021-present Chair, Seminar Committee
- 2019-2021 Co-chair, Seminar Committee
- 2019-present Member, Center for Biodiversity Research (CBio)

2019-2020 Founding Member and Advisory Board, Center for Biodiversity Research (CBio)
2018-2023 Member, Communications Committee

U of MEMPHIS- COLLEGE of ARTS & SCIENCES SERVICE

2025-2026 Member, CAS Research Council
2023 Dean's Working Group ASCEND Strategic Plan

- Goal 7 (Steward & Generate Financial Resources)

U of MEMPHIS- COLLEGE of COMMUNICATION & FINE ARTS SERVICE

2023 Panelist, STEAM Collaborations

U MISSOURI- DEPARTMENTAL SERVICE

2014-2015 Member, Systems Biology Search Committee, Biological Sciences
2011-2014 Member, Biology Seminar Organizing Committee, Biological Sciences
2013 Graduate Student Representative, Divisional Council, Biological Sciences
2010-2015 Secretary (2011-2013) and Member, Biology Graduate Student Association

SUNY-ESF- DEPARTMENTAL SERVICE

2008 Member, Graduate Advisory Council

NCSU- DEPARTMENTAL SERVICE

2001-2004 President, Botany Club

OUTREACH

2025 National Hunting and Fishing Day, Pineville, LA
2021 Presenter (Virtual), *Kingdom of Rodentia*, 4th and 5th grade students in Shelby County Schools Creative Learning in a Unique Environment Program
2013-2018 Founder and blogger at WildlifeSNPits (<http://wildlifesnypits.wordpress.com>)

- Wrote 53 posts as EEPuckett & 126 posts as WildlifeSNPits

2002-2004 Volunteer, Young Scientists Program, Raleigh, NC

- Weekly science tutoring with a fourth grade student

PATENTS

Gampala, S, D Lee, **EE Puckett**, R Nair, and F Chumley. Poplar genomic DNA sequences that regulate gene expression in plants and uses thereof. Patent Filing date: June 4, 2009.

SCHOLARSHIPS and HONORS

2023 Early Career Researcher Award, University of Memphis
2012 TransWorld Airlines Scholarship, U Missouri
2010-2014 Life Science Fellow, U Missouri
2008, 2006 Lowe-Wilcox Graduate Scholarship, Department of Environmental and Forest Biology, SUNY-ESF
2004 Outstanding Botany Senior Award, Department of Botany, NC State University

2004 University Scholars Program, NC State University
2004 Honors Program, College of Agriculture and Life Sciences, NC State University
2003 Larry A. Whitford Scholarship, Department of Botany, NC State University
2001 Promising Young Botanist Award, Department of Botany, NC State University

PROFESSIONAL AFFILIATIONS

2023-*present* Society for Molecular Biology and Evolution (SMBE)
2012-2023 Society for the Study of Evolution (SSE)
2011-*present* International Association for Bear Research and Management (IBA)
2003 Phi Beta Kappa