



TRAVIS HAGEY PH.D.

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Curriculum Vitae  
October 2022

## EDUCATION

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- 2013 Ph.D. in Biology. University of Idaho. *Mechanics, Diversity, and Ecology of Gecko Adhesion*  
2007 B.Sc. in Cellular Biology with Chemistry minor. Western Washington University

## APPOINTMENTS

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- 2018- Assistant Professor of Biology. Mississippi University for Women  
2015-2018 Science Communication Postdoctoral Fellow. BEACON Center for the Study of Evolution in Action. Michigan State University. Supervisors D. Whittaker and L. Mead  
2013-2015 Postdoctoral Researcher. University of Idaho. Funded by BEACON Center for the Study of Evolution in Action. *Optimization of the Gecko Adhesive System*. Sponsor: M. Riley  
2007-2013 Doctoral student. University of Idaho. Advisor: L. Harmon (2007-2009: Teaching Assistantship, 2009-2010: Research Assistantship, Funded by NSF DEB, RUI: REVSYS: *Integrative Systematics of Gekkotan Lizards - Phylogenetic Resolution, Taxonomic Revision, and Comparative Biology*, 2010-2013: Teaching Assistantship)

## RELEVANT SKILLS AND EXPERIENCES

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- Herpetological experience in the lab and field, using live and preserved animals
- Biomechanical experience including modeling, simulations, and high-resolution 3D imaging
- Macroevoolutionary experience investigating patterns of trait evolution
- Developing active learning classroom activities
- Organizing academic, museum, and public outreach events
- Generating and disseminating educational and outreach materials
- Celebrating and fostering diversity, equity and inclusion through focused efforts and everyday activities

## RESEARCH DISSEMINATION

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### RESEARCH PUBLICATIONS (\*UNDERGRADUATE AUTHORS 8 TOTAL)

- Whittaker, D.J., Atyam, A\*, Burroughs, N.A., Greenburg, J.M., **Hagey, T.J.**, Ketterson, E.D., Novotny, M.V., Soini, H.A., Theis, K.R., Van Laar, T.A., and J.W.G. Slade. *in review at Frontiers in Ecology and Evolution*. Effects of short-term experimental manipulation of captive social environment on uropygial gland microbiome and preen oil volatile composition.
- Phillips, J.G., **Hagey, T.J.**, Hagemann, M., and E. Gering. *in review at Evolutionary Biology*. Rapid morphological shifts in a co-invaded assemblage of lizards.
- Howell, B.\*, Winchell, K.M., and **T.J. Hagey**. 2022. Geometric Morphometrics Reveal Shape Differences in the Toes of Urban Lizards. *Integrative Organismal Biology*, 4(1): 1-15.
- Falvey, C.\*, Rodriguez, K., **Hagey, T.J.**, and K.M. Winchell. 2020. The Finer Points of Urban Adaptation: Intraspecific Variation in Lizard Claw Morphology. *Biol Journal of the Linnean Society*, 131: 304–318.
- Hagey, T.J.**, Uyeda, J.C., Crandell, K.E.\*, Cheney, J.\*, Autumn, K., and L.J. Harmon. 2017. Tempo and Mode of Performance Evolution Across Independent Origins. *Evolution*, 71(10): 2344–2358.
- Hagey, T.J.**, Harte, S., Vickers, M., Harmon, L.J., and L. Schwarzkopf. 2017. There's more than one way to climb a tree: Limb length and microhabitat use in lizards with toe pads. *PLoS ONE*, 12(9): e0184641.
- Hagey, T.J.**, Puthoff, J.B., Crandell, K.E.\*, Autumn, K., and L.J. Harmon. 2016. Modeling Observed Animal Performance Using the Weibull Distribution. *Journal of Experimental Biology*, 219: 1603-1607.
- Hagey, T.J.**, Cole, N., Davidson, D.\*, Henricks, A.\*, Harmon, L.L., and L.J. Harmon. 2016. Temporal Variation in Structural Microhabitat Use of *Phelsuma* Geckos in Mauritius. *Journal of Herpetology*, 50(1): 102-107.

- Hagey, T.J.**, Puthoff, J.B., Holbrook, M.\*, Harmon, L.J., and K. Autumn. 2014. Variation in Setal Micromechanics and Performance of Two Gecko Species. *Zoomorphology*, 133 (2): 111-126.
- Yoder, J.B., DesRoches, S., Eastman, J.M., Gentry, L., Godsoe, W.K.W., **Hagey, T.J.**, Jochimsen, D., Oswald, B.P., Robertson, J., Sarver, B.A.J., Schenk, J.J., Spear, S.F., and L.J. Harmon. 2010. Ecological Opportunity and the Origin of Adaptive Radiations. *Journal of Evolutionary Biology*, 23: 1581-1596.
- Hagey, T.J.**, Losos, J.B., and L.J. Harmon. 2010. Cruise Foraging of Invasive Chameleon (*Chamaeleo jacksonii xantholophus*) in Hawai'i. *Breviora*, 519: 1-7.

### OTHER PUBLICATIONS

- Hagey, T.J.** 2018. *Evolutionary Biomechanics*. Oxford Bibliographies in "Evolutionary Biology." Ed. Douglas Futuyma. New York: Oxford University Press. [DOI: 10.1093/OBO/9780199941728-0117](https://doi.org/10.1093/OBO/9780199941728-0117)

### HONORS AND AWARDS

- 2019 Mississippi University for Women Alumni Association [New Faculty Award](#)
- 2019 National Society of Leadership and Success ΣΑΠ Excellence in Teaching Award

### RECENT INVITED RESEARCH PRESENTATIONS

- 2022 University of Idaho guest speaker. Biology 489 Herpetology. Instructor L. Harmon
- 2022 Trinity University guest speaker. BIOL-3426: Vertebrate Biology. Instructor B. Slabach
- 2020 Southeastern Louisiana University [invited departmental seminar speaker](#). *The Evolution and Mechanics of the Gecko Adhesive System*
- 2020 MUW Alumni Association annual fundraiser auction [invited speaker](#)
- 2020 MUW Navigating Nursing departmental research talk. *Geckos! And Research at the W*
- 2019 University of Mississippi invited departmental seminar speaker. *Adaptation and Diversification of Lizards with Adhesive Pads*.
- 2019 Evolutionary Biomechanics symposium at Evolution conference. *Texture in Arboreal Lizard Habitat Use*. **Hagey, T.J.**, Philips, J., and E. Gering.
- 2019 Mississippi University for Women Science and Mathematics seminar (SM100). *How Lizards Use Their Habitat: Rough vs Smooth*
- 2019 Mississippi University for Women Gordy Honors College Forum Series presentation. *Geckos! And Science Communication*. Featured in the [Commercial Dispatch](#)
- 2018 National Tropical Botanical Garden. *Habitat Use and Life Histories of Hawaii's Invasive Reptiles and Feral Chickens*. Phillips, J.G., **Hagey, T.J.**, and E. Gering

### RECENT PUBLIC DISSEMINATION OF RESEARCH

- 2022 Howell et al article featured in [MUW news article](#) "Howell has honors project published in journal 'Integrative Organismal Biology'"
- 2022 [Life in the City blog](#). *CityShape: How Urban Environments Have Shaped the Toes of Puerto Rican Crested Anoles*
- 2021 Quoted in Burns, M. and S.D. Stellwagen. 2021. The Ties that Stick: Challenges and Future Promise in the Field of Bioadhesives. *Integrative and Comparative Biology* 61(4): 1406-1410.
- 2021 Contributed setal images to BBC "Deadly Predators" episode
- 2021 *Bionanotechnology: Concepts and Applications* by Fruk and Kerbs. photo credit Fig 7.15 gecko setae
- 2020 Contributed setal images and content advice to BBC "Secrets of Skin" episode
- 2020 EarthDate.org public science article contributor. episode ED-181 [Hanging with Geckos](#) and episode ED-182 [Anoles Get a Grip](#).
- 2020 Headwaters Science Institute Lunch with a Scientist [speaker](#). Livestreamed on [Facebook](#) and [YouTube](#)
- 2020 [Anole Annals blog](#). SICB 2020: *City Anoles Have Bigger Toes!*
- 2019 [Anole Annals blog](#). *Evolution 2019: How Does Urbanization Affect Toepad Shape and Size in Anolis cristatellus?* Also featured on [Life in the City: Evolution in an Urbanizing World](#)
- 2019 MUW Office of Undergraduate Research spotlight on student and faculty research [articles](#)

- 2019 MUW news article: [Hagey's passion for geckos, science opens doors at The W](#)  
 2018 [Anole Annals blog](#). Anoles versus Geckos: The Ultimate Showdown  
 2017 Tiatragul, S., Murali, G. and Stroud, J. T. 2017. Digest: Different evolutionary dynamics led to the convergence of clinging performance in lizard toepads. *Evolution*, 71(10): 2537–2538.  
 2017 PLOS ONE press release. Tree-climbing geckos that use narrower perches have longer limbs than expected. Featured on Phys.org, Science Newsline Biology, Robot Enthusiast, Jersey Tribune, AAAS EurekAlert!, Carnivora, the EDGE, ParallelState, and Cheers.ws  
 2017 Lansing Biology on Tap. Evolution and Mechanics of the Gecko Adhesive System  
 2016 [Atlas of Science layman's summary](#) of Hagey et al. 2016. Modeling observed animal performance using the Weibull distribution

### **RECENT RESEARCH PRESENTATIONS**

- 2023 Society of Integrative and Comparative Biology conference. Toepad shape allometry and evolution across *Hemidactylus* geckos. Dawkins, A. and **T.J. Hagey**  
 2021 Joint meeting of Ichthyologists and Herpetologists. 3D imaging of the lizard adhesive system via photogrammetry. **Hagey, T.J.**, Pillai, R., Riedel, J., and L. Schwarzkopf  
 2020 World Congress of Herpetology. Poster. Lizard Adhesive Toe Pad Evolution Using Geometric Morphometrics. **T.J. Hagey**  
 2019 Association of Southeastern Biologists conference. Texture in Arboreal Lizard Habitat Use. **Hagey, T.J.**, Philips, J., and E. Gering  
 2019 MUW Provost's Faculty [Symposium](#). Texture in Arboreal Lizard Habitat Use  
 2017 Evolution Conference. Poster. Convergence in Lizard Adhesive Toe Pad Shape. **T.J. Hagey**

### **STUDENT RESEARCH PRESENTATIONS (\*PRESENTING STUDENT)**

- 2023 Society of Integrative and Comparative Biology conference. Early Burst of Parallel Evolution in Gecko Toe Pad Morphology. McCann, J.A.\* and **T.J. Hagey**  
 2022 Evolution conference. Poster. Constraint in limb length allometry across lizards. Howell, B.\*, **Hagey, T.J.**, and J. Uyeda  
 2022 Society of Integrative and Comparative Biology conference. Poster. Investigating parallel differences in gecko toe pad shape. McCann, J.A.\* and **T.J. Hagey**  
 2021 Evolution conference. Identifying shifts in evolutionary allometry of limb length across lizards. Howell, B.\*, **Hagey, T.J.**, and J. Uyeda  
 2020 Society of Integrative and Comparative Biology conference. Poster. Adapting to Urban Habitats: How Toe Pad Shape Varies in Puerto Rican Anoles. Howell, B.\*, **Hagey, T.J.**, and K. Winchell  
 2020 Society of Integrative and Comparative Biology conference. Poster. Convergent Evolution in Toe Pad Shape Across Pad Bearing Lizards. Upadhyay, A.\*, Howell, B., Fain, E., Fair, O., 2, Garcia, J., Cavalieri, N., Lundrigan, B., and **T.J. Hagey**  
 2019 Evolution conference. Poster. Adapting to Urban Habitats: How Toe Pad Shape Varies in Puerto Rican Anoles. Howell, B.\*, **Hagey, T.J.**, and K. Winchell  
 2017 Minorities in Agriculture, Natural Resources and Related Sciences. Poster. The Morphological Similarities Between Geckos and Anoles Toepad Shape. Fair, O.\* and **T.J. Hagey**  
 2017 MSU University Undergraduate Research and Arts Forum. Poster. The Morphological Similarities Between Geckos and Anoles Toepad Shape. Fair, O.\* and **T.J. Hagey**

### **FUNDING (RESEARCH, OUTREACH/EDUCATION, AND TRAVEL)**

**CAREER TOTAL: \$468,256**

#### **NOTEWORTHY FUNDING**

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|------|---|----------|
| 2022 | Mississippi State Space Grant Consortium Seed Grant in NASA STEM Developing Tools to Investigate Biologically Inspired Adhesives. <b>Hagey T.J.</b> and M. Priddy | \$14,341 |
| 2020 | British Ecological Society Small Research Grant. Gecko Adaptation to Surface Textures in Mauritius (£5,000)   | \$6,500  |
| 2019 | University of Mississippi William and Flora Hewlett Foundation to build General Biology BSB 101 using open education resources                                    | \$4,000  |
| 2017 | BEACON Request #1081. BEACON and Beyond: Broadening Participation and the   | \$56,730 |

	Scope of Public. Solomon-Lane, T., <b>Hagey, T.J.</b> , Warwick, A., and H. Hofmann	
2016	BEACON Request #947 An Evidence-based Framework for Transforming Scientific Communication and Engagement with the Public. Solomon-Lane, T., <b>Hagey, T.J.</b> , Warwick, A., and H. Hofmann	\$60,709
2016	BEACON Request #857 Bringing Data to Life in Science Classrooms. Baskett, C., Scharnagl, K., Groves, A., Kjelvik, M., Schultheis, E., and <b>T.J. Hagey</b>	\$61,055
2014	BEACON Request. #439 Supplement: Optimization of the Gecko Adhesive System. <b>Hagey T.J.</b> and M. Riley	\$34,948
2013	BEACON Request. #302 Optimization of the Gecko Adhesive System. <b>Hagey, T.J.</b> and M. Riley	\$161,059
2012	National Geographic/Waite Grant. #W216-12. How Geckos Stick in Nature: Ecology and Biomechanics of Gecko Feet. <b>Hagey, T.J.</b> , Harmon, L.J., and L. Schwarzkopf	\$14,920

#### **RESEARCH FUNDING SOURCES (\$251,403 TOTAL)**

Mississippi State Space Grant Consortium Seed Grant, British Ecological Society, Mississippi IDeA INBRE, MUW Summer Scholars Program. Mississippi State Space Grant Consortium, MUW Faculty Research Committee, MUW Alumni Association, BEACON Center for the Study of Evolution in Action, National Geographic/Waite Grant, Western Washington University Undergraduate Research Grant

#### **OUTREACH/EDUCATION FUNDING SOURCES (\$188,078 TOTAL)**

University of Mississippi William and Flora Hewlett Foundation, European Society for Evolutionary Biology, Society for the Study of Evolution, MUW APIL (Active, Problem-based, Inquiry-based Learning) Teaching Innovation awards, MUW Alumni Association, MUW Faculty Senate, BEACON Center for the Study of Evolution in Action, Michigan State University Postdoctoral Enhancement Award for Teaching

#### **TRAVEL FUNDING SOURCES (\$28,775 TOTAL)**

AMNH Collection Study Grant, Mississippi State Space Grant Consortium, MUW College of Arts, Sciences, and Education Presidents Student Fund, MUW Science and Mathematics department, MUW Faculty Senate, MUW Alumni Association, Michigan State University Postdoc Association, BEACON Center for the Study of Evolution in Action, European Society for Evolutionary Biology, Institute for Bioinformatics and Evolutionary Studies, Idaho Graduate and Professional Student Association, Society for the Study of Amphibians and Reptiles, American Society of Naturalists, Idaho INBRE (Idea Network of Biomedical Research Excellence), University of Idaho Student Grant Program

### **RESEARCH MENTORING**

#### **UNDERGRADUATE RESEARCH ADVISING**

#### **24 UNDERGRADUATE RESEARCHERS (7 FROM UNDERREPRESENTED GROUPS, 19 FEMALE)**

##### 2022 Mississippi State University

##### *Developing Tools to Investigate Biologically Inspired Adhesives*

Charlotte Thompson	Mechanical Engineering researcher. Co-advised by Dr. Priddy
Chase Dedeaux	Agricultural & Biological Engineering senior design project. Co-advised by Dr. Priddy
Jaydon Gibson	Agricultural & Biological Engineering senior design project. Co-advised by Dr. Priddy
Jon Jones	Agricultural & Biological Engineering senior design project. Co-advised by Dr. Priddy
Micah Foster	Agricultural & Biological Engineering senior design project. Co-advised by Dr. Priddy

##### 2022 Mississippi University for Women

Lillian Ergle	Honors College project (honors reader committee member)
Ta'Dashia Flowers	Independent research project: <i>Effects of Formalin Preservation on Lizard Toe Pad Morphology</i>

##### 2021-2022 Mississippi University for Women

Alaina Dawkins	Mississippi Space Grant awardee and MUW Summer Scholars awardee: <i>Toe Pad Shape Evolution in Hemidactylus geckos</i>
Shelby Jones	Honors College project: <i>Comparing Measurements of Gecko Toe Pad Performance</i> (primary advisor)
Alicia Jefferson	Mississippi Space Grant awardee: <i>Effects of Formalin Preservation on Lizard Toe Pad Morphology</i>

Jennifer McCann Independent research project: *Parallel Evolution in Toe Pad Shape Across Geckos*  
 Sara Sligh Honors College project: *Effects of Chloride Ion Channel Activators on CFTR Expression* (honors reader committee member)

2020-2021 Mississippi University for Women

Karleigh Shelton Honors College project: *Non-Health Factors that Affect the Oral Health of the Pine Belt Region of Mississippi* (honors reader committee member)  
 Cayla Skinner Honors College project: *The Correlation Between Rheumatoid Arthritis and Oral Health* (honors reader committee member)

2019-2020 Mississippi University for Women

Bailey Howell Mississippi Space Grant awardee: *Diversity in Toe Pads Across Padded Lizards*  
 Honors College project: *The effects of urbanization on toepad shape and lamellae size in Anolis cristatellus*. Final presentation [video](#) (primary advisor)  
 Shelby Bozek Honors College project: *Knowledge of Prenatal Education in Individuals of Childbearing Age: Below 21 Years and 21 Years and Older* (honors reader committee member)  
 Arpana Upadhyay Independent research project: *Diversity in Toe Pads Across Padded Lizards*

2018-2019 Mississippi University for Women

Elizabeth Fain Independent research project: *Diversity in Toe Pads Across Padded Lizards*  
 Honors College project: *Aquatic Invertebrates and Aquatic Plants as Bioindicators of River Health* (committee member as honors reader)  
 Demyia Graham Honors College project: *Spontaneous Formation of Yeast Prions Affected by Cellular Metabolic State* (discipline reader committee member)

2016 Michigan State University

Jordan Garcia Student Research Opportunities Program awardee: *Quantifying Adhesive Toe Pad Morphology in Hemidactylus Geckos*  
 Oacia Fair Student Research Opportunities Program awardee: *Morphological Similarities of Gecko and Anole Toe Pads*

2009 University of Idaho

Meghan Wagner Independent research project: *gecko adhesion performance*  
 Andy Gygli Independent research project: *imaging gecko specimens to quantify morphology*  
 Katie Pond Live animal care

**GRADUATE RESEARCH ADVISING**

**2 GRADUATE RESEARCHERS (1 FROM UNDERREPRESENTED GROUPS, 1 FEMALE)**

2022 Mississippi State University

Alejandro Martinez-Castellon Engineering doctoral student co-advised by Dr. Priddy. *FEA Simulations of van der Waals Forces to Investigate the Gecko Adhesive System*

2022 Bangor University

Celine Murray Master's external examiner: *A Comparative Analysis of Gecko Toepad and Claw Morphologies, with regards to Body Weight, Locomotion and Habitat Occupancy*

**TEACHING**

**TEACHING EXPERIENCE**

Evolution

Evolution - Mississippi University for Women BSB 446/446L	Instructor	2022, 2023
Evolution - Mississippi University for Women BSB 346/346L	Instructor	2021, 2020, 2019
Evolution - Michigan State University IBIO 445	Co-Instructor	2018, 2017

Zoology

Zoology - Mississippi University for Women BSB 252/252L	Instructor	2022, 2023
Special Topics - Mississippi University for Women BSB 485/485L	Instructor	2020

Biomechanics

Special Topics - Mississippi University for Women BSB 485/485L	Instructor	2022, 2020, 2018
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Herpetology

Special Topics - Mississippi University for Women BSB 485	Instructor	2019
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Herpetology - University of Idaho BIOL 489	Graduate TA	2011, 2010, 2008
<u>Introductory Biology</u>		
General Biology - Mississippi University for Women BSB 151/151L	Instructor	2022-2021
General Biology - Mississippi University for Women BSB 101/101L	Instructor	2021-2018
General Biology - Mississippi University for Women BSB 102L	Instructor	2019
Cells & the Evolution of Life Lab - University of Idaho BIOL 115	Graduate TA	2009, 2008, 2007
<u>Miscellaneous</u>		
Senior Seminar - Mississippi University for Women BS 400	Instructor	2021
Ecology and Population Biology Lab - University of Idaho BIOL 314	Graduate TA	2013, 2012

### CURRICULUM DEVELOPMENT AND TRAINING

- 2019 Integrated open education resources into General Biology course, supported by University of Mississippi
- 2018 MUW library [LibGuide](#) for BSB 485 Special Topics in Biomechanics
- 2017 Calibrated as a Reformed Teaching Observation Protocol (RTOP) instrument observer scoring student-driven, active learning classrooms
- 2016 Postdoctoral Teaching Scholar. Completed MSU PLB 802 Pathways to Scientific Teaching
- 2016 Authored a Data Nugget teaching activity. [Sticky situations: big and small animals with sticky feet](#). with video (Schultheis and Kjelvik 2015)
- 2016 Designed a teaching activity illustrating how traits evolve in a population for middle school through undergraduate students. *Trait Evolution in a Bird Population (TEBird) Activity*. Included in MSU and MUW courses. Chosen as an EvoKE SEED project activity

### INVITED EDUCATION AND OUTREACH PRESENTATIONS

- 2022 Mississippi University for Women Gordy Honors College Forum Series activity. *Solomon Island Logging Town Hall Debate*
- 2021 Mississippi University for Women Science and Mathematics seminar (SM100). What is graduate school?
- 2021 SICB 2021 symposium promotional video project invited presenter "[Meet a Scientist and Advice for New Scientists](#)"
- 2020 Ecological Society of America's Early Career Ecologists *Tips for New PIs at Teaching-Focused Institutions* webinar invited panelist
- 2019 Dr. D's Brain Jam public science talk at Three Sisters Pie Co. "Why Do Geckos Lizards Stick?"
- 2018 Invited MSU Microbiology & Molecular Genetics graduate student workshop speaker *Educational and Outreach Activities*
- 2017 BEACON NSF site visit. Poster. *Using evidence to broaden participation and the scope of public engagement*. Solomon-Lane, T., **Hagey, T.J.**, Warwick, A., and H. Hofmann
- 2017 MSU KBS K-12 Partnership Fall Workshop. *A Sense of Place: Science in your School Yard. A Classroom Activity Simulating Population-Level Evolution by Hand*
- 2017 MSU Undergraduate Honors Seminar speaker. *Why are phylogenies important?*
- 2017 MSU FAST Fellows program speaker. *Classroom Activity: Trait Evolution in a Bird Population*.
- 2016 Michigan State University Integrative Biology 150: From DNA to Populations. *Trait Evolution in a Bird Population (TEBird) Activity*
- 2015 Think Evolution VII: Summer Institute for Science Educators sponsored by the University of California Museum of Paleontology. *The Gecko Adhesive System: how it works and how it evolved*

### CURRICULUM AND OUTREACH DISSEMINATION AND PRESENTATIONS

- 2019 Mississippi Academy of Sciences. *A Classroom Activity Simulating Population-Level Evolution by Hand*. **Hagey, T.J.**, Warwick, A., and L. Mead
- 2018 Society of Integrative and Comparative Biology conference. Poster. *A Classroom Activity Simulating Population-Level Evolution by Hand*. **Hagey, T.J.**, Warwick, A., and L. Mead

- 2018 Resources, training, and toolkits on [public engagement](#), [science communication](#), and [STEM public policy](#) featured by 500 Women Scientists
- 2017 National Association of Biology Teachers Professional Development Conference. Poster. A Classroom Activity *Simulating Population-Level Evolution by Hand*. **Hagey, T.J.**, Warwick, A., and L. Mead
- 2017 SICB Research and Education Resources. Sticky situations: *big and small animals with sticky feet*.
- 2017 BEACON Congress. Poster. A Classroom Activity *Simulating Population-Level Evolution by Hand*. **Hagey, T.J.**, Warwick, A., and L. Mead
- 2017 Society for the Advancement of Biology Education Research. Poster. A Classroom Activity *Simulating Population-Level Evolution by Hand*. **Hagey, T.J.**, Warwick, A., and L. Mead

### **RECENT EDUCATIONAL AND OUTREACH ACTIVITIES**

- 2022 Teaching evolution (bird game) to Caledonia, MS 9<sup>th</sup> graders (4 sections, 90 students)
- 2022 “Skype a Scientist” talking to multiple K-12 student groups in Illinois and Iowa
- 2022 Mississippi Regional High School Science Bowl virtual “Recognizer/Official Scorer”
- 2022 Guest lecture on Ecological Research Ethics for University of Toronto EEB 488 Research Issues in Ecology and Evolutionary Biology
- 2021 Recorded [TikTok](#) and [Facebook](#) video describing inaccuracies in the Geico gecko
- 2021 Guest speaker in Heritage High School dual enrolment biology course, teaching evolution
- 2021 Selected to participate in the Aberdeen High School’s Summer Enrichment program, running a 4-day course on evolution for high school summer students. Featured in [Monroe Journal newspaper](#)
- 2021 “Skype a Scientist” talking to multiple K-12 student groups in Quebec, Canada, Mexico City, Mexico, British Columbia, Canada, and California
- 2021 Mississippi Regional High School Science Bowl virtual “Recognizer/Official Scorer” and Zoom host
- 2020 “Skype a Scientist” talking to multiple K-12 student groups in TX, OR, KS, IL ([Cool Facts About Animals](#))
- 2020 Mississippi Regional High School Science Bowl volunteer timekeeper
- 2020 Organized activity booth volunteers and participated in STEM night at New Hope middle school
- 2019 “Skype a Scientist” talking to multiple K-12 student groups in IL, VA, TN
- 2019 Mentored 4 MUW honors students’ development of activities for events at Boys and Girls Club
- 2019 #herpetALLogy Twitter takeover, sharing gecko toe pad diversity <https://travis-hagey.com/herpetallogy-takover-april-2019/>
- 2019 Organized Boys and Girls Club Friday activity, Columbus, MS, with 10 4<sup>th</sup> and 5<sup>th</sup> graders
- 2019 BSA Scouts Environmental Science merit badge co-leader
- 2019 Mississippi Regional High School Science Bowl volunteer timekeeper
- 2019 Mississippi Regional Middle School Science Bowl volunteer judge
- 2018 “Skype a Scientist” talking to multiple K-12 student groups in MA, NH, NY, MN
- 2018 Organized activity booth volunteers and participated in science nights at New Hope middle school
- 2018 Banana Poka RoundUp forest education fair booth presenter. Kokee State Park, Kaua’i, Hawai’i
- 2018 Organized activity booth volunteers and participated in science nights at Donley, Bennett Woods, Murphy, Hiawatha, Beagle elementary schools, and the MSU Expo Zone Science Festival
- 2018 Darwin Day Roadshow organizer and speaker, coordinating scientist visits to middle and high schools in TX, FL, CA, and five schools in MI
- 2018 2<sup>nd</sup> annual BEACON STEM Public Engagement workshop co-organizer
- 2018 Skype meeting with George Washington Carver middle school 8<sup>th</sup> grader to discuss science fair project
- 2018 “Skype a Scientist” talking to multiple K-12 student groups in Ontario, Canada and Virginia
- 2017 Darwin Day Roadshow program co-organizer
- 2017 Organized activity booth volunteers and participated in science nights at Marble, Hiawatha, Lansing Charter school, Beagle, Bennett Woods, Whitehills, and Glencairn elementary schools, MSU Science Festival, and MSU Museum Darwin Discovery Day event
- 2017 SACNAS conference undergraduate ecology/evolution field trip co-organizer
- 2017 BEACON Congress Sandbox co-organizer. *Build a Frame: Matching the scientific context to the audience and Bridging the gap between STEM and public policy*

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- 2017 Great Lakes Science Boot Camp BEACON tour presentation for librarians. Research at BEACON
- 2017 Undergrad Diversity at Evolution professional development workshop co-organizer
- 2017 Presented a poster at National Alliance of Broader Impacts Summit. *Broader Impact Partnerships at the BEACON Center for Evolution in Action*
- 2017-2010 Participated in additional science fair events around Michigan, Idaho, and Washington and organized additional outreach training events.

### **RECENT PROFESSIONAL AND ACADEMIC COMMUNITY ACTIVITIES**

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- 2022-20 MUW invited Diversity and Inclusion Council member
- 2022-19 MUW Undergraduate Research Advisory Committee member
- 2022-18 MUW Honors committee member
- 2022-19 MUW undergraduate biology degree academic advisor for a total of 38 students
- 2022-09 Peer reviewed articles for *Acta Zoologica*, *African Journal of Ecology*, *Biological Journal of the Linnean Society*, *Biology Letters*, *BMC Evolutionary Biology*, *Ecology and Evolution*, *Evolution*, *Frontiers in Zoology*, *Functional Ecology*, *Global Ecology and Biogeography*, *The Herpetological Journal*, *Integrative and Comparative Biology*, *Journal of Amphibian and Reptile Conservation*, *Journal of Experimental Biology*, *Journal of Herpetology*, *Journal of Morphology*, *JSM Biology*, Merge MUW journal of undergraduate research, *Molecular Phylogenetics and Evolution*, *Oecologia*, *Physiological and Biochemical Zoology*, *Royal Society Open Science*, the *Zoological Journal of the Linnean Society*, and *Zoology*. See [publons.com](https://publons.com) for verified reviews
- 2022-14 Peer reviewed grants for National Geographic Society and BEACON Center for Evolution in Action
- 2022 MUW Undergraduate Research Conference presentation judge
- 2022 MUW Assistant tenure-track Professor of Biology Education hiring committee member
- 2022 NSF *ad hoc* reviewer for the NSF Physiological Mechanisms and Biomechanics (PMB) Program
- 2022 Conducted recruitment presentations with local Mississippi high schools (Heritage Academy) and community colleges
- 2021 Recorded MUW departmental recruiting video highlighting biology department strengths.
- 2021 MUW Fall Convocation Undergraduate Research Panelist
- 2020 Volunteer assisting with the MUW interactive public art UNITY Project, sponsored by the MUW Diversity, Equity & Inclusion Council
- 2020 MUW Office of Undergraduate [Research Faculty Mentor Panelist](#)
- 2019 MUW Honors student community engagement advisor, mentoring development of public engagement educational activities and multiple visits to local Boys and Girls club
- 2019 Undergrad Diversity at Evolution program volunteer mentor
- 2019 Served on Pearson Publishing advisory panel for non-major biology videos
- 2018 [Metafact](#) verified expert
- 2018 MUW INBRE faculty hiring committee member
- 2018 MUW visiting microbiology faculty hiring committee member
- 2017-16 MSU Postdoc Association Social Committee member (2016) and Social Committee chair (2017)