

Caleb A. Aldridge

Graduate Research Assistant and Ph.D. Student • Wildlife, Fisheries & Aquaculture

Acorn 107 • Mississippi State University • Mississippi State, MS 39762-9690

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SHORT BIO

Caleb was born in Winfield, Alabama, USA, in 1989 and raised in rural northwestern parts of the state. Some of his earliest memories are of playing in the creeks and ditches digging for crayfish and salamanders. It was these early experiences that lead him to pursue an education and career in ecological science and natural resource conservation. His professional and research interests include the conservation of herpetofauna, ecology of headwater ecosystems, and optimizing decisions in natural resource management. He is currently investigating how state inland fisheries agencies apply standardized sampling and monitoring methods to inform management decisions that meet stakeholder objectives. Caleb also has passion for teaching, learning, and academic refinement. He discovered this as an undergraduate when tutoring and leading study groups. This passion was solidified through a graduate assistantship teaching General Biology Labs and guest lecturing for Ecology. He currently teaches online Introductory Biology Labs for Northwest Mississippi Community College. When not reading or researching he enjoys coffee, time outdoors—whether knelt in his home garden or hiking Angel’s Landing trail in Zion Canyon National Park—and helping others to gain a better understanding of the natural world.

Google Scholar Citations: 11 | Google Scholar *h*-index: 2

R^G Reads: 14,316 | R^G Score: 13.5 | R^G Research Interest: 27.7

EDUCATION

Degree-seeking

Ph.D. Forest Resources—Wildlife, Fisheries & Aquaculture

Current

Dept. of Wildlife, Fisheries & Aquaculture, Mississippi State University

[Working] Dissertation title: *Knowledge Discovery and Decision Analysis in Managing US Inland Fisheries*

Committee: Leandro E. (Steve) Miranda (Co-Advisor), Michael E. Colvin (Co-Advisor), Scott A. Rush, and Anna C. Linhoss

Selected coursework: Decision Support Systems, Conservation and Natural Resource Decision Making, Improving Instruction

M.S. Biological Sciences

2017

Dept. of Biology, The University of Mississippi

Thesis title: *The Effect of Road Crossings on Stream-associated Salamanders within Holly Springs National Forest*

Committee: Stephen T. Threlkeld (Co-Advisor), William J. Resetarits Jr. (Co-Advisor), Marjorie M. Holland, and Rebecca E. Symul

Selected coursework: Biometry, Experimental Design, Wetlands Ecology, Herpetology, Multivariate Analysis of Ecological Data

B.S. General Biology

2012

*Dept. of Biology, The University of North Alabama*Advisor: Glenn A. MarvinSelected coursework: Elementary Stats., Aquatic Ecology, Entomology, Comp. Vert. Morph., Plant Phys.**Certificates**

Preparing Future Faculty Certificate

2019-Current

Center for Teaching and Learning (CTL), Mississippi State University

Best Practices in Online Instruction Certificate

2018

*Center for Teaching and Learning (CTL), Mississippi State University***RESEARCH EXPERIENCE****Graduate Research (Dissertation)**

2018-Current

*Dept. of Wildlife, Fisheries & Aquaculture, Mississippi State University*Supervisors: Michael E. Colvin and Leandro E. (Steve) Miranda

Review of management procedures of US state inland fisheries agencies and development of a prototype framework (procedures plus data tools) for adaptive management of Mississippi inland fisheries. Will include examination of long-term monitoring data (observational study) in estimates of fisheries parameters in response to management actions.

Research Assistant

2018-Current

*Dept. of Wildlife, Fisheries & Aquaculture, Mississippi State University*Supervisors: Michael E. Colvin and Leandro E. (Steve) Miranda

Review of manuscripts and other scholarly works; perform statistical and numerical analytics; design experiments and sampling schemes; and conduct field and laboratory sampling.

Research Associate

2016-2018

*Dept. of Wildlife, Fisheries & Aquaculture, Mississippi State University*Supervisor: Beth H. Baker

Investigation (field experiment) on the effects winter cover crops on soil properties and edge-of-field runoff.

Graduate Research (Thesis)

2015-2017

*Dept. of Biology, The University of Mississippi*Supervisors: Stephen T. Threlkeld and William J. Resetarits

Investigation (quasi-experimental) on how road-crossings affected stream-associated salamander counts and richness in comparison to road-free streams.

Field Technician

2014

*Dept. of Biological and Envir. Sciences, Alabama Ag. & Mech. University*Supervisor: Dawn Lemke

Sampling of water quality parameters in the investigation (quasi-experimental) of responses to differing prescribed fire applications.

Wildlife Biologist Intern

2013

Freedom Hills Wildlife Management Area, Alabama Department of Conservation and Nat. Resources

Supervisor: Mitchell Marks

Sampling and surveys of various wildlife populations for estimates of abundance, structure, and health.

TEACHING EXPERIENCE

Graduate Teaching Assistant

2014-2016

Dept. of Biology, The University of Mississippi

Supervisor: Denis C. Goulet

Instruction of elementary biological, human anatomy and physiology, and ecological science laboratories; proctoring of examinations. (22 hrs taught; 3.89/4.00 from student reviews)

Guest Lecturer

Dept. of Wildlife Fisheries & Aquaculture, Mississippi State University

Instructor: Michael E. Colvin

Course: Fisheries Management

2019-10-02

"Management Plans"

Dept. of Biology, The University of Mississippi

Instructor: Stephen T. Threlkeld

Course: Ecology

2015-09-28

"Population Dynamics" based on material from M.C. Molles Jr., "Ecology: Concepts and Applications"

Laboratory Teaching Assistant

2011-2012

Alabama Math, Science, and Tech. Initiative: Science in Motion

Supervisor: Kim Pounders

Prototyped and maintained laboratory equipment and demonstration supplies. Assisted with demonstrations and instruction to secondary school teachers.

SCIENTIFIC AND SCHOLARLY WORKS

Note: Names of undergraduate co-authors underlined.

Journal Articles

1. **Aldridge, C.A.**. (Accepted). *Computing Skills Beyond R for Fisheries Students*. Fisheries. Available from <https://doi.org/10.1002/fsh.10392>
2. Brooks, J.P., R.K. Smith, **C.A. Aldridge**, B. Chaney, A.R. Omer, J. Dentinger, G.M. Street, and B.H. Baker. (Forthcoming). *A preliminary investigation of wild pig (*Sus scrofa*) impacts on water quality*. Journal of Environmental Quality. Available from <https://doi.org/10.2134/jeq2019.07.0258>
3. **Aldridge, C.A.**, B.H. Baker, and A.R. Omer. (2019). *Investigation of short-term effects of winter cover crops on compaction and total soil carbon in a long-term no-till agricultural system*. Journal of Soil and Water Conservation 74(1):78–85. Available from <https://doi.org/10.2489/jswc.74.1.77>
4. Baker, B.H., J.M. Prince Czarnecki, A.R. Omer, **C.A. Aldridge**, R. Kröger and J.D. Prevost. (2018). *Nutrient and sediment runoff from agricultural landscapes with varying suites of conservation*

practices in the Mississippi Alluvial Valley. Journal of Soil and Water Conservation 73(1): 75–85. Available from <https://doi.org/10.2489/jswc.73.1.75>

Reports, Papers, and Notes

1. Rogers, T., T. Banks, and **C.A. Aldridge**. (Accepted). Geographic Distribution: *Hemidactylus turcicus* (Mediterranean Gecko). USA: MISSISSIPPI: LOWNDES CO. Herpetological Review.
2. Dennison, J.L. and **C.A. Aldridge**. (2019). Geographic Distribution: *Hemidactylus turcicus* (Mediterranean Gecko). USA: ALABAMA: LAUDERDALE CO. Herpetological Review 50(3):527.
3. **Aldridge, C.A.** (2018). *A report for Morton Farms on the effects of winter cover on select soil metrics*. REACH, Department of Wildlife, Fisheries & Aquaculture, Mississippi State University, Mississippi State, MS.
4. **Aldridge, C.A.** and B.H. Baker. (2018). *Mississippi State University 201 and 202 monitoring network for Mike Graves and the USDA–Natural Resource Conservation Service Annual report, January 2018*. REACH, Department of Wildlife, Fisheries & Aquaculture, Mississippi State University, Mississippi State, MS.
5. **Aldridge, C.A.** (2017). *The Effect of road crossings on stream-associated salamanders within Holly Springs National Forest* (Master's thesis). Available from ProQuest Dissertations and Theses Global. (1925911777). Retrieved from <https://search.proquest.com/docview/1925911777>
6. **Aldridge, C.A.** and B.H. Baker. (2017). *Mississippi State University 201 and 202 monitoring network for Mike Graves and the USDA–Natural Resource Conservation Service Semi-annual report, July 2017*. REACH, Department of Wildlife, Fisheries & Aquaculture, Mississippi State University, Mississippi State, MS.
7. **Aldridge, C.A.** and B.H. Baker. (2017). *Mississippi State University 201 and 202 monitoring network for Mike Graves and the USDA–Natural Resource Conservation Service Annual report, January 2017*. REACH, Department of Wildlife, Fisheries & Aquaculture, Mississippi State University, Mississippi State, MS.
8. **Aldridge, C.A.** and B.H. Baker. (2016). *Mississippi State University 201 and 202 monitoring network for Mike Graves and the USDA–Natural Resource Conservation Service Semi-annual report, July 2016*. REACH, Department of Wildlife, Fisheries & Aquaculture, Mississippi State University, Mississippi State, MS.

Extension Articles

1. Baker, B.H., **C.A. Aldridge**, and A.R. Omer. (2018). *Assessing and protecting water quality in the home and community*. Mississippi State University Extension, Mississippi State University. Available from <https://tinyurl.com/y63wrh9j>
2. **Aldridge, C.A.** and B.H. Baker. (2017). *Watersheds: Role, importance, and stewardship*. Mississippi State University Extension, Mississippi State University. Available from <https://tinyurl.com/yyv2y9zj>
3. Baker, B.H., A.R. Omer, and **C.A. Aldridge**. (2017). *Water: Sink to sea*. Mississippi State University Extension, Mississippi State University. Available from <https://tinyurl.com/y2ZS5Z73>

4. Baker, B.H., **C.A. Aldridge**, and A.R. Omer. (2016). *Water: Availability and use*. Mississippi State University Extension, Mississippi State University. Available from <https://tinyurl.com/yxtcto7c>
5. **Aldridge, C.A.**, B.H. Baker, and A.R. Omer. (2016). *Concerns about long-term water security*. Mississippi State University Extension, Mississippi State University. Available from <https://tinyurl.com/y25uwm6g>

Manuscripts Pending

1. Banks, T., T. Rogers, and **C.A. Aldridge**. (In preparation). Geographic Distribution: *Hemidactylus turcicus* (Mediterranean Gecko). USA: MISSISSIPPI: CLAY CO. Herpetological Review.
2. **Aldridge, C.A.**, T. Rogers, and T. Banks. (In preparation). *Improving rapid assessment surveys of a non-native gecko (Hemidactylus turcicus)*. Herpetological Conservation and Biology.
4. **Aldridge, C.A.**, D.M. Norris, M.E. Colvin, and L.E. Miranda. (In preparation). *Structural persistence of brush piles within a Southeastern flood control reservoir*. North American Journal of Fisheries Management.
5. **Aldridge, C.A.**, L.E. Miranda, and M.E. Colvin. (In preparation). *Themes of contemporary inland fisheries goals*. Fisheries.
6. Miranda, L.E., M. Colvin, A. Shamaskin, and **C.A. Aldridge**. (In preparation). *Review, revision and development of new monitoring protocols to facilitate the meeting of goals and objectives of freshwater fisheries management in Mississippi*. Mississippi Department of Wildlife, Fisheries, and Parks, Jackson, MS.
7. **Aldridge, C.A.** (Under review). *Road-effects on plethodontid counts in a Southeastern Plains forest*. Herpetology Notes.

Presentations and Outreach and Workshops

1. Boudreau, M.R. and **C.A. Aldridge**. (Co-instructor). (2019-12-11-13). Departmental Workshop, Wildlife, Fisheries and Aquaculture. Berryman Cabin at Mississippi State University, Mississippi State, MS.
2. **Aldridge, C.A.** (2019-11-14). *Stream site selection using conditioned Latin hypercube sampling*. Presentation at the Southeastern Fishes Council 45th Annual Meeting. Holiday Inn at World's Fair Park, Knoxville, TN.
3. **Aldridge, C.A.** and A.B. Alford. (Co-instructor). (2019-11-13). *An ecologist's first encounter with R*. Workshop at the Southeastern Fishes Council 45th Annual Meeting. Holiday Inn at World's Fair Park, Knoxville, TN.
4. Bush, C., S.A. Rush, C. Bethel, and **C.A. Aldridge**. (Content author). (2019-08-02). *A web-based interface designed to promote biological conservation and education within Mississippi*. Poster presentation at the Shackouls Honors College 2019 Summer Undergraduate Research Symposium, Mississippi State University, Mississippi State, MS.
5. Baker, B., **C.A. Aldridge**, A. Lucore, J. Dyer, and R. Kroger. (Content author). (2019-06-23-25). *Effects of cover crops on edge-of-field runoff in row-crop production systems*. Oral presentation at the Southern Region Water Conference, Texas A&M Hotel and Conference Center, Texas A&M University, College Station, TX.

6. **Aldridge, C.A.** (Presenter). (2019-05-02). *A planning support tool for MDWFP statewide fisheries management*. Oral presentation at the Mississippi Cooperative Fish and Wildlife Research Unit Annual Coordinating Committee Meeting, Berryman Institute, Mississippi State University, Mississippi State, MS.
7. Wilmoth, B.M., D.A. Schumann, B.M. Richardson, **C.A. Aldridge**, and M.E. Colvin. (Content author). (2019-04-16). *Ontogeny of Southern Brook Lamprey (*Ichthyomyzon gagei*) with emphasis on abundance, distribution, and morphology in a small watershed*. Poster presentation at the Shackouls Honors College 2019 Spring Undergraduate Research Symposium, Mississippi State University, Mississippi State, MS. Available from <https://tinyurl.com/y536pzdj>
8. **Aldridge, C.A.**, M.E. Colvin, and L.E. Miranda. (Presenter). (2019-02-20–22). *Early look: Performance of machine learning to classify age from age-length data*. Poster presented at the 45th Annual Meeting of the Mississippi Chapter of the American Fisheries Society. Mississippi Museum of Natural Science, Jackson, MS. Available from <https://tinyurl.com/y28gqycg>
9. Wilmoth, B.M., D.A. Schumann, B.M. Richardson, **C.A. Aldridge**, and M.E. Colvin. (Content author). (2019-02-20–22). *Ontogeny of Southern Brook Lamprey, *Ichthyomyzon gagei*, with emphasis on abundance, distribution, and morphology in a small watershed*. Oral presentation at the 45th Annual Meeting of the Mississippi Chapter of the American Fisheries Society. Mississippi Museum of Natural Science, Jackson, MS. Available from <https://tinyurl.com/y456pvtD>
10. **Aldridge, C.A.**, B.M. Richardson, D.A. Schumann, and M.E. Colvin. (Presenter). (2018-11-08). *Identifying barriers to the use and detection of passive integrated transponder (PIT) tags in Southern Brook Lamprey ammocoetes (*Ichthyomyzon gagei*, Hubbs & Trautman, 1937)*. Oral presentation at Southeastern Fishes Council 44th Annual Meeting. Hickory Knob State Park Resort, McCormick, SC. Available from <https://tinyurl.com/y8hvb2sw>
11. **Aldridge, C.A.** (Presenter). (2018-11-06). *Equipment and video demonstration of stream fish sampling techniques*. Demonstration at New Hope STEM Night. New Hope High School, New Hope, MS.
12. Richardson, B.M., **C.A. Aldridge**, D.A. Schumann, M.E. Colvin. (Content author). (2018-08-20). *Assessing viability of passive integrated transponder (PIT) tags for ecological studies of lamprey ammocoetes*. Poster presented at the 148th Annual Meeting of the American Fisheries Society, Atlantic City, NJ. Available from <https://tinyurl.com/yazju8mm>
13. **Aldridge, C.A.** (Guest). (2017-11-15). *White-tailed deer: Hunting regulations and concerns* [Radio program]. In J. Campbell and J. Webster (Hosts and Producers), Tennessee Valley Outdoor Report Live. Florence, AL:WSBM.
14. Chaney, B., J.P. Brooks, **C.A. Aldridge**, A.R. Omer, G.M. Street, and B.H. Baker. (Content author). (2017-04-13). *Preliminary investigation of Feral Hog impacts on water quality*. Poster presented at the Shackouls Honors College 2017 Spring Undergraduate Research Symposium, Mississippi State University, Mississippi State, MS. Available from <https://tinyurl.com/y9p63j9q>
15. Omer, A.R., B.H. Baker, B., and **C.A. Aldridge**. (Co-presenter). (2017). *Water resources lecture and demonstrations for 6th - 8th graders*. Demonstration at 2017 Conservation Camp–Day Camp Edition. Department of Wildlife, Fisheries & Aquaculture, Mississippi State University, Mississippi State, MS.

16. Omer, A.R., B.H. Baker, **C.A. Aldridge**, and A. Firth. (Co-presenter). (2017). *Water resources lecture and demonstrations for 7th graders*. Demonstration at 2017 Conservation Camp–Wildlife and Recreation Edition, Department of Wildlife, Fisheries & Aquaculture, Mississippi State University, Mississippi State, MS.
17. Baker, B.H., A.R. Omer, and **C.A. Aldridge**. (Co-presenter). (2017). *Water resources lecture and demonstrations*. Demonstrations for Grade 5 Classrooms. Lawndale Elementary, Tupelo, MS.
18. **Aldridge, C.A.** (Presenter). (2017). *The effect of road crossings on stream-associated salamanders within Holly Springs National Forest*. Oral presentation at Departmental Seminar Series–Thesis Defense. Department of Biological Sciences, University of Mississippi, University, MS.
19. Baker, B.H., A. Jacobs, J. Estes, and **C.A. Aldridge**. (Co-presenter). (2017-02-23). *Cover crops field day*. Demonstration and discussion at MSU Extension and USDA–NRCS field day. Graves Farm, Ripley, MS.
20. **Aldridge, C.A.** (Presenter). (2016). *Results: Comparisons of stream-associated salamander abundance and richness in road-crossed and road-free low-order streams in Holly Springs National Forest*. Oral presentation at Brown Bag Presentation Series. Holly Springs Ranger District, University, MS.
21. **Aldridge, C.A.** (Presenter). (2015). *The effect of road crossings on stream-associated salamanders within Holly Springs National Forest*. Oral presentation at Departmental Seminar Series–Thesis Prospectus. Department of Biology, University of Mississippi, University, MS.
22. Bohenek, J. and **C.A. Aldridge** (Co-presenter). (2015). *Chittum Tubby Pond cleanup: A restoration effort*. Oral presentation for Wetland Ecology Course. Department of Biology, University of Mississippi, University, MS. Available from <https://youtu.be/VwtDOspsTGo>
23. **Aldridge, C.A.** (Content author). (2014). *Influences of forest management on flow regime, Bankhead National Forest, AL*. Poster presentation at STEM Day 2014. Department of Biological and Envir. Sciences, Alabama Ag. & Mech. University, Normal, AL.
24. **Aldridge, C.A.** (Content author). (2014). *Facts for flow study: Bankhead National Forest, AL*. Oral presentation for GIS, Spatial Analysis, and Modeling Course. Department of Biological and Envir. Sciences, Alabama Ag. & Mech. University, Normal, AL.
25. **Aldridge, C.A.** (Presenter). (2014-02-05). *Assessing the impact of active forest management on watershed stream flow, turbidity, and dissolved oxygen*. Oral presentation for student project proposal. Center for Forest Ecosystems Assessment, Alabama Ag. & Mech. University, Normal, AL.

Code and Programming

1. **Aldridge, C.A.**, M.E. Colvin, and L.E. Miranda. (Author). (2019). *FRASps: Fisheries Resources Analysis System—Planning Support*. (Version 0.1) [Software], Department of Wildlife, Fisheries and Aquaculture, Mississippi State University, Mississippi State, MS and Mississippi Department of Wildlife, Fisheries, and Parks, Jackson, MS.
2. **Aldridge, C.A.** (Contributor). (2018). *Age-length key*. In Miranda, L.E. and M.E. Colvin (Authors), *FRAS: Fisheries Resources Analysis System* (Version 3.0) [Software], Department of Wildlife, Fisheries and Aquaculture, Mississippi State University, Mississippi State, MS and Mississippi Department of Wildlife, Fisheries, and Parks, Jackson, MS.

3. **Aldridge, C.A.** (2018). *Calculations of common metrics of hydrographs* [R Code]. Available from <https://tinyurl.com/y9yh6pw7>
4. **Aldridge, C.A.** (2017). *Unique dates axis labels in multi-panel lattice graphics* [R Code]. Available from <https://tinyurl.com/y9mkv663>
5. **Aldridge, C.A.** (2017). *Functions to convert DD to DMS for ggmap axis plotting* [R Code]. Available from <https://tinyurl.com/ycr3m9k4>

Contributed Blog Posts

1. **Aldridge, C.A.** (2019-10-30). There's models and then there's inference.
2. **Aldridge, C.A.** (2019-09-26). Reasoning in ecology, conservation biology, and natural resource management. Available from <https://tinyurl.com/y3fb63fg>
3. **Aldridge, C.A.** (2019-04-03). Story Framing with the Message Box: A tool for writing a SUCCES story. Available from <https://tinyurl.com/yynbj44>
4. **Aldridge, C.A.** (2019-03-22). Design and decisions, part II: Using crunched numbers in decision support. Available from <https://tinyurl.com/y4uq64xb>
5. **Aldridge, C.A.** (2019-01-25). Design and decisions, part I: Thinking about the decision to be made *before* the numbers are crunched. Available from <https://tinyurl.com/y5x4wqex>
6. **Aldridge, C.A.** (2018-10-18). You so random: Selecting random stream sampling locations using R. Available from <https://tinyurl.com/y473zkbz>
7. **Aldridge, C.A.** (2018-10-05). The effects of sediment on PIT tag detection—The setup. Available from <https://tinyurl.com/y38sjsk7>
8. **Aldridge, C.A., B.M. Richardson, D.A. Schumann, and M.E. Colvin.** (2018-10-05). Lamprey abstract for Southeastern Fishes Council meeting. Available from <https://tinyurl.com/y4qbdhwa>

CONFERENCES ATTENDED

1. *Southeastern Fishes Council 45th Annual Meeting.* (2019-11-13–15). Holiday Inn at World's Fair Park, Knoxville, TN.
2. *45th Annual Meeting of the Mississippi Chapter of the American Fisheries Society.* (2019-02-20–22). Mississippi Museum of Natural Science, Jackson, MS.
3. *2019 Diversity Conference: Our Voices, When Diversity Matters.* (2019-01-31–02-01). The Mill Conference Center at Mississippi State University, Mississippi State, MS.
4. *Southeastern Fishes Council 44th Annual Meeting.* (2018-11-08–09). Hickory Knob State Park Resort, McCormick, SC.
5. *Data Summit 2018.* (2018-09-13–14). The Mill Conference Center at Mississippi State University, Mississippi State, MS.
6. *Cover Crop Symposium.* (2017-11-29). Capps Building, Delta Research and Extension Center, Stoneville, MS.
7. *2017 SEC Academic Conference: The Future of Water.* (2017-03-27–28). The Mill Conference Center at Mississippi State University, Mississippi State, MS.

RESEARCH INTERESTS

Development of and decision support tools for adaptive natural resource and ecosystem management.

Development of data exploration and mining procedures for natural resource and ecological sciences (i.e., ecoinformatics).

Ecology of the Southern Brook Lamprey (*Ichthyomyzon gagei*), and methodologies in their study.

Herpetofauna surveys and mapping, especially of Urodela (Salamanders) along the western Fall Line of Alabama.

Ecology and conservation of headwater ecosystems.

PROFESSIONAL AFFILIATIONS

American Fisheries Society

Mississippi Chapter

Fisheries Management Section

Student Subsection of the Education Section

Student Member

2018-Current

Miss. St. Univ. Sub-unit

Treasurer

2018-2020

American Society of Ichthyologists and Herpetologists

Student Member

2018-Current

Southeastern Fishes Council

Student Member

2018-Current

Association of Southeastern Biologists

Student Member

2017-Current

Southeastern Partners in Amphibian and Reptile Conservation

Member

2016-Current

ACADEMIC AND COMMUNITY SERVICE

Shackouls Honors College Undergraduate Research Symposium

Judge

Summer 2019

Shackouls Honors College Undergraduate Research Symposium

Judge

Spring 2019

12th Annual Biological Undergraduate Research Program

Judge

2019

2019 Nabi Award Selection Committee

Member

2019

Wildlife, Fisheries, and Aquaculture Graduate Student Association

Committee Member

2019

Bridging 662

Board Member

2018-Present

Cook Elementary P-16 Community Engagement Council

Council member

2018-Present

Earth Day Prairie Restoration, Osborne Prairie, Osborne, MS

ConserVANTion and the MSU Biology Graduate Student Association

Volunteer

2017

The University of Mississippi Graduate Student Council

Social and Philanthropical Chair

2015-2016

ACCOLADES

1. *SDAFS Student Lodging Award* [\$725] 2020
2. *SFC Boschung Student Travel Award* [\$100] 2019
3. *AAAS/Science Program for Excellence in Science Recipient* [Sponsored membership] 2019
4. *Fernando Vizcarra Memorial Photo Contest (Fall)* [3rd Place]
"Sunrise Mesa Arch, Canyonlands National Park, Utah" 2018
5. *SFC Boschung Student Travel Award* [\$100] 2018
6. *Graduate Research Assistantship, Mississippi State University* [\$25,000 yr⁻¹] 2018-Current
7. *Graduate Teaching Assistantship, University of Mississippi* [\$18,000 yr⁻¹] 2014-2016
8. *Pate—Sterling Mermorial Scholarship* [\$10,000] 2008-2009
9. *NUCOR Steel Foundation Scholarship* [\$40,000] 2008-2012
10. *Alabama Youth Leadership Conference* 2007
11. *Alabama Boys' State* 2007

COMPUTER SKILLS

Created personal professional website (link above), programmed minor functions and applications within R (see 'Other Works' section) and JavaScript (e.g., for retrieval of scholarly metrics under 'SHORT BIO' section of this CV), and analyzed and created content using software tool listed below.

Programming: R, Git, SQL, T_EX, markdown, R Markdown, HTML, CSS (Novice), JavaScript (Novice), Python (Novice), VBA (Novice)

Applications: RStudio, Microsoft Office Suite, Mendeley Desktop, G Suite, Shiny, GitHub Desktop, Atom, Quantum GIS, HOBOWare PRO, Blackboard, Canvas, GRASS (Novice), JMP (Novice), PAST (Novice), InVest (Novice)

Platforms: Microsoft Windows, Android, macOS (Novice), Linux (Novice)

LANGUAGES

English (Native), Spanish (Novice)

OTHER

Affiliations

National Parks Conservation Association 2016-Current

National Parks Foundation 2016-Current

Tennessee Valley Outdoor Report

Content Contributor 2017-Current

Sipsey River Rats

Content Contributor 2017-Current

Non-degree-seeking

Graduate Coursework 2013-2014

Dept. of Biological and Envir. Sciences, Alabama Ag. & Mech. University

Advisor: Dawn Lemke

Selected coursework: Envir. Biology, GIS, Spatial Analysis and Modeling, Hydrology and Watershed Mgmt.

Undergraduate Coursework 2008-2010

Dept. of Biological, Physical, and Human Sciences, Freed-Hardeman University

Advisor: Brian P. Butterfield

Selected coursework: Principles of Biology, Human Anatomy and Phys., Microbiology

Developmental coursework

All About eLearning [1.5] 2019

Machine Learning A-Z™: Hands-On Python & R in Data Science 2019
Self-paced course via Udemy

GTA Series: Active Learning Techniques Workshop 2018
Center for Teaching and Learning (CTL), Mississippi State University

Teaching Effectively Online (TEO): Canvas Basics 2017
Mississippi Virtual Community College Academy

Sustainable Agricultural Land Management 2016
Massive online open course (MOOC) via coursera and University of Florida

The Land Ethic Reclaimed: Perceptive Hunting, Aldo Leopold, and Conservation 2015
MOOC via coursera and University of Wisconsin-Madison

Watershed Management Training Certificate 2015
The Watershed Academy Web-Based Training Program, U.S. Environmental Protection Agency

R Programming 2014
MOOC via coursera and John Hopkins University

University Teaching 101 2014
MOOC via coursera and John Hopkins University

'Building Models for GIS Analysis Using ArcGIS' webcourse <i>esri Training Academy</i>	2014
Bird Bootcamp <i>Alabama State Lands Division</i>	2013

REFERENCES

Available upon request.

Please send questions, feedback, or type errors to caa134@msstate.edu. This document was produced using RStudio, an Integrated Development Environment (IDE); it was written using **R** (statistical and programming language), R Markdown (markup language), \TeX (macro language), HTML (markup language), and JavaScript (programming language).