

Warren B. Sconiers, Ph.D.

Ramaley N117A
Department of Ecology and Evolutionary Biology
University of Colorado
Boulder, CO 80309



Email: warren.sconiers@colorado.edu



CURRENT POSITION

- Associate Teaching Professor, University of Colorado, Boulder, CO
 - 80% teaching and 20% service
 - Courses: General Biology 1 & 2, Teaching Biology for TAs, Biology Honors Thesis
 - Service: Committee service to the university, General Biology Curriculum revision, administration committees
- Research Staff, INSTAAR, Mountain Research Station, Nederland, CO
 - Research: Plant-insect interactions, arthropod diversity in response to growing season manipulation and climate change in black sand plots on Niwot Ridge
 - Service: Undergraduate recruitment for summer research

EDUCATION

- Doctor of Philosophy in Entomology 9-14
Texas A&M University, College Station, TX 
- Bachelor of Science in Ecology and Evolutionary Biology 04-08
University of California at Irvine, Irvine, CA 

UNIVERSITY OF COLORADO, BOULDER

- Associate Teaching Professor (Senior Instructor) 22-Present
This position has a distribution of 80% teaching and 20% service, including administrative duties such as committee service
- Teaching subjects: General Biology, Teaching Biology, Biology Honors Thesis

TEACHING EXPERIENCE

- General Biology 1, University of Colorado, Boulder, CO 22-Present
Introductory biology course for majors and non-majors. This course emphasizes cell and molecular biology and scientific skills.
- General Biology 2, University of Colorado, Boulder, CO 22-Present
Introductory biology course for majors and non-majors. This course emphasizes organismal biology, ecology, and scientific skills.
- Teaching Biology, University of Colorado, Boulder, CO 22-Present

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This course teaches TAs how to teach biology. This course emphasizes the use of techniques from pedagogical literature, including national biology standards from NGSS, STeLLA, and other research pedagogical frameworks.

MENTORSHIPS

- Biology Honors Thesis, University of Colorado, Boulder, CO 23-Present
Mentor for undergraduates as they complete research, writing, presentation, and communication skills in this course.

Mentored Students

- Trevor Randall (EBIO) “*Arthropod Predator Diversity in the Alpine Tundra in Response to Artificially Extended Summers*”. Defended in Fall 2023, *magna cum laude*
- Aja Bos (EBIO) Title Pending
- Isabelle Sease (EBIO) Title Pending

Letters of recommendation for CUB Students

- Zainab Akbar- Civil Engineering
- Aaron Richards- Ecology & Evolutionary Biology
- Trevor Randall- Ecology & Evolutionary Biology
- Samantha Olstein- Transfer

DEPARTMENTAL SERVICE POSITIONS

- EBIO JEDI Committee Member 22
Focus is to improve graduate student funding and support.
- Niwot DEI Recruitment Fellowship Committee Member 22
Helped overview student applications for Niwot research grants.
- EBIO Executive Committee Member 22-Present
Provide chair input on departmental and university-wide decisions.
- Integrating Large Course Initiative Grant- EBIO Grant PI 22-Present
Writing of internal grant to revise curriculum for General Biology. Organization, planning, and university-level meetings to use \$32k over 3 years for curriculum revision
- EBIO Undergraduate Committee Member 22-23
Input for organizational changes to improve undergraduate education.
- EBIO General Biology Faculty Learning Community 22-Present
Curriculum revision and improving pedagogy for General Biology.
- EBIO General Biology Committee 22-Present
Coordination of TAs, labs, and functionality of General Biology.

BROADER SERVICE POSITIONS

- Chair of the ESA Learning Discovery Conference 2023 Planning Committee 22-23
Heading planning, solicitation for speakers, logistics, grant-writing for funds, and running conference
- Nature Book Guide Newsletter Contributor 22-Present

Provide book recommendations regarding biology, ecology, and education.

SERVICE ACTIVITIES

- University of Colorado, Boulder Admitted Students Day- Represented EBIO 22
- Coordinated General Biology students to help with a BioBlitz organized by the Sand Creek Regional Greenway Partnership, Denver, CO 22
- General Biology student field trip to the Mountain Research Station, Nederland, CO 22
- University of Colorado, Boulder, EBIO Colloquium Speaker 22
- University of Colorado, Boulder, Panelist for OFA Workshop: Reinventing Yourself and Staying Relevant 23
- Young Aspiring Americans for Social and Political Activism for Aurora Youth Coalition research- Interviewee 23
- Fired Up '23, joined the new EBIO graduate students to discuss research experience, my background, and educational careers while at the MRS and hiking Niwot Ridge 23
- RECCS '23 at Elk Meadows; met with community college students and ran a data collection demonstration introducing students to the scientific process 23
- PUEC Committee for Luke Evans 23
- CTL 2023 Fall Intensive Presentation: "Engaging and Recruiting Students When Teaching 250+ At Once!" 23
- CTL Symposium 2023; group presentation about LCI work, title pending, Andy Martin, Terry Bilinski 23

PROFESSIONAL DEVELOPMENT and SCHOLARSHIP

- Climate Across the Curriculum Workshop 22
- Integrating Large Course Initiative Grant- EBIO Grant PI 22-Present
- University of Colorado, Boulder Faculty Leadership Institute: 22-23 Cohort 22-Present
- ACUMent Faculty Mentoring Program; Mentor: Heidi E W Day, Teaching Professor, Director of Undergraduate Neuroscience Education, Psychology & Neuroscience Dept. 23-Present

RESEARCH

- INSTAAR, Mountain Research Station, Nederland, CO 21-Present
 - Started while at U of Ozarks ('21)
 - Plant-insect interactions, arthropod diversity in response to growing season manipulation and climate change in black sand plots on Niwot Ridge
 - Recruited two undergraduates from General Biology course in '22
 - Recruited three undergraduates from General Biology course in '23
 - Manuscript writing and mentoring and pollen collection in '23
 - Honors Thesis work with Trevor Randall
- LTER-SPARC Synthesis Working Group with NCEAS 23-Present
 - Collaboration with Scientific Peers Advancing Research Collaborations (SPARC) and the National Center for Ecological Analysis and Synthesis (NCEAS)
 - Working group synthesizing data and writing a manuscript for multiple LTER sites
 - Manuscript on the role of disturbance in changing ecosystems

FUNDING AWARDS

- "LTER: Long-term research on the dynamics of high-elevation ecosystems – A framework for understanding rates of ecological response to climate change". (\$7.65M, NSF) 22-Present
- Integrating Large Course Initiative Grant- EBIO Grant (\$32K, CUB) 22-Present

- UROP funding for three undergraduates to help with INSTAAR research in '23



UNIVERSITY OF THE OZARKS

- Assistant Professor of Biology, University of the Ozarks, Clarksville, AR 16-21
This position has a distribution of 80% teaching and 20% research/service, including administrative duties such as committee service
 - Teaching subjects: Entomology, invertebrate zoology, ecology and evolution, upper level ecology, plant biology and physiology, disease ecology, bee biology and bee keeping, disease ecology, bacteriophage biology, bioinformatics
 - Research: Plant-insect interactions and ecology between plant diversity and monoculture. The effects of plant interactions on insect ecology and plant yield. Bacteriophage ecology and bioinformatics
 - Service: Committee service to the university, university assessment and institutional effectiveness, interdisciplinary programs, implementation of new courses and services to campus, new student programs and opportunities

TEACHING EXPERIENCE

- Virus Hunters, University of the Ozarks, Clarksville, AR 18-19, 19-20, 20-21
Lower-level biology, Molecular Ecology course, Bioinformatics Course
A two-semester course that uses practical, research-based methods in finding, isolating, and procuring bacteriophages in the first semester, and sequencing and annotating the genome of found bacteriophages using professional bioinformatics software during the second semester. This hands-on course engages 1st year students early in research to promote student retention and education in STEM fields and is a collaboration with the international SEA-PHAGES program (seaphages.org.).
- Ozarks Seminar, University of the Ozarks, Clarksville, AR 18
Introductory freshman course
This course introduces students to college and how the LENS curriculum at the University of the Ozarks can be used to produce a comprehensive perspective of various topics. My section explored the value of science to society, how data can be misinterpreted for negative results, and how science and culture interact.
- Field Ecology, University of the Ozarks, Clarksville, AR 18, 20
Upper-level biology
An upper-level biology course focusing on the scientific process, experimental design, and techniques in ecology. Students in this course will complete a scientific experiment from design to collecting data and presenting their research.
- Invertebrate Zoology, University of the Ozarks, Clarksville, AR 17, 19, 21
Upper-level biology
A broad course about invertebrate diversity, anatomy, and evolution. The course follows an evolutionary approach, focusing on how invertebrates have evolved over time. The lab section emphasizes morphology, dissection, and identification at the class taxonomic rank.
- Arkansas Governor's School, Hendrix College, Conway, AR 17, 18

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A summer learning program for nominated sophomores and junior high school students. In this program I taught natural science with an emphasis on entomology, evolution, ecology, and the scientific method at the professional level.

- Ecology and Evolution, University of the Ozarks, Clarksville, AR SP 17, FA 17, 19, 20, 21
Lower-level biology

This was a general ecology and evolution course that covered the principles of the field. The course focused on overlaying concepts to describe a larger framework for how species interact and evolve. Included a lab section that focused on the depth of these topics and the scientific method.

- Disease Ecology, University of the Ozarks, Clarksville, AR 17, 19, 21
Upper-level biology

This course introduces the mechanics of disease outbreaks, epidemiology, and disease modeling. Topics included outbreak ecology and which ecological, cultural, and biological factors contribute to the emergence and spread of zoonotic, infectious disease.

- Biology Capstone, University of the Ozarks, Clarksville, AR 17, 21
Upper-level biology

This was a professional development course meant to prepare students for the biology workforce. Students prepared application documents, prepared research talks, and/or interned or shadowed potential employers.

- Bees and Beekeeping, University of the Ozarks, Clarksville, AR 17, 20
Upper-level biology, Co-taught with Dr. Buddy Smith

A general bee biology and beekeeping course to introduce students to beekeeping. I taught the bee biology portion while Dr. Buddy Smith taught the hands-on beekeeping portion of the course.

- Entomology, University of the Ozarks, Clarksville, AR 16, 18, 20
Upper-level biology

This course introduced students to the world of entomology. We covered all the orders with lectures emphasizing biology and ecology of insects, and the laboratory section emphasizing morphology and identification. Students created their own insect collections based on museum curation standards, and researched species diversity of local pollinators.

- Plant Diversity and Ecology, University of the Ozarks Clarksville, AR 16, 18, 19, 21
Lower-level biology

This course introduced students to plants from the evolution of single-celled organisms to angiosperms. Lectures emphasized plant physiology, ecology, evolution, and the impacts of plants on society, while laboratories emphasized the scientific method, plant physiology experiments, and collecting.

STUDENT RESEARCH

- RECCS Lite Student Summer Research Program: Mentor, UC Boulder 20
Christina Waddle, Environmental Sciences major

I worked with Christina to enter, analyze data, and present figures during a 2-week research skills course

- Bacteriophage Discovery, University of the Ozarks, Clarksville, AR 18-19
Tyler J. Gale, Biology major

Mr. Gale attempted to discover a new bacteriophage using protocols provided by my Virus Hunters course. He is worked independently for research credit.

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- Bacteriophage Annotation, University of the Ozarks, Clarksville, AR 18-19
Tyler J. Gale, Biology major

Mr. Gale and I annotated published the bacteriophage genome “Odesza” in GeneBank, in collaboration with the University of Pittsburgh and the SEA-PHAGES program.

- Plant Ecology on Mars, University of the Ozarks, Clarksville, AR 18-19
Charles Martin, Biology major

As part of his professional development in biology course, Mr. Martin grew plants using a replicate of Martian soil. He tested the effects of iron-biased soil using mung bean plants compared to standard potting soil. He is used various tools to measure plant health and vitality.

- Bacteriophage Discovery, University of the Ozarks, Clarksville, AR 18-19
Sebastien Emile, Biology major

Mr. Emile attempted to discover a new bacteriophage using protocols provided by my Virus Hunters course. He is worked independently in his spare time.

- Negative effects of acid-rain on pea plants, University of the Ozarks, Clarksville, AR 18-19
Isaac Julio and Catherine M. Thompson, Biology and Environmental Studies majors

Mr. Julio and Ms. Thompson developed a research project in my Field Ecology course studying the effects of simulated acid rain on English peas. After my course they repeated the experiment and Mr. Julio presented their research at the Ecological Society of America conference in August 2019.

- Food for Thought Garden Research, University of the Ozarks, Clarksville, AR 17-19
Catherine M. Thompson-Environmental Studies, Christina Waddle -Environmental Studies, Lindsey Cross- Biology major

Through a biology tutorial practicum, along with Dr. Kim Van Scoy, we researched how polyculture and monoculture-grown plants create natural pest control. Ms. Thompson learned experimental design, implementation of design, data collection, data presentation, and science leadership. This project was funded with a McElree grant (U of O internal grant). Ms. Waddle and Ms. Cross helped collect data the following season.

MENTORSHIPS

- Graduate studies in the Department of Integrative Biology, Oregon State University 20
Isaac Julio Montenegro, Biology major

Mr. Montenegro was enrolled in the Integrative Biology Doctorate Program under the advisement of Dr. Benjamin Dalziel in FA 20. During his time at University of the Ozarks, I had Mr. Montenegro for several classes, independent research opportunities, advising, and oversaw his internship and path to graduate school.

- Pine beetle control and cataloging, University of the Ozarks, Clarksville, AR 19-20
Shantanna Heffley, Biology major

Ms. Heffley worked with the University of Arkansas and researchers in Little Rock, AR to track and catalogue the distribution and abundance of pine infesting beetles.

- Needy Paws Employment Internship, University of the Ozarks, Clarksville, AR 17
Allison Clarke, Biology major

Through a biology tutorial practicum, we created an internship program and credit for Ms. Clarke for her to learn how to operate and manage an animal shelter.

LETTERS OF RECOMMENDATION

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- Christina Waddle- Graduate School
- Tyler Gale- Graduate School
- Karlee McCaghren- Biology
- Emily Dice- Biology
- Cherokee Gott- Biology
- Vada Wood- Biology
- Kayley Holeman- Biology
- Isaac Julio- Biology
- Gracie Millar- Biology
- Andrew Cannon- Biology
- Benjamin Stormes- Biology
- Sebastian Emile- Biology

UNIVERSITY SERVICE POSITIONS

- U of O Reopening Task Force University of the Ozarks, Clarksville, AR 20
Faculty Representative
Represented faculty on the committee designated to strategically reopen the university during the COVID-19 pandemic for the 2020-21 academic year. I helped devise the university's written plan and addressed concerns from faculty and liaised with upper administration.
- "Through Your LENS" Committee Chair, University of the Ozarks, Clarksville, AR 18-Present
Faculty panel series that incorporates the different LENSEs to address student-chosen controversial, practical, relevant, and important topics. Self-created committee to address campus needs.
- Assessment Committee, University of the Ozarks, Clarksville, AR 18-Present
Designing and implementing university-wide assessment for courses. Helped research for and write the university response report to previous evaluation by the Higher Learning Commission (HLC). In addition, I was in charge of writing programmatic assessment for the Biology Program and gathering and assessing programmatic reports from the Division of Mathematics and Natural Sciences. A two-year elected position that was extended.
- Ozarks Biological Society Advisor/TriBeta Biological Honors Society 18-Present
Advising the student organization to promote itself, complete activities, and to provide career support. Added by the Dean of Mathematics and Natural Sciences Division.
- TriBeta National Conference Faculty Advisor 18-19
Advised student organization to host the 2019 TriBeta honors biology undergraduate conference.
- Secondary Education Advisory Committee, University of the Ozarks, Clarksville, AR 17-Present
Advising curriculum to best fit the Arkansas requirements for new educators in high school biology.
- Student Enrichment Fund Election Committee, University of the Ozarks, Clarksville, AR 17-18
Determined which student organizations would receive funds for campus activities. A one-year elected position.
- Spring Greening Planning Committee, University of the Ozarks, Clarksville, AR 17-18
Helped organize and plan the spring greening festivals in April. Self-appointed.

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• Intern Program Advisory Board, University of the Ozarks, Clarksville, AR 17-18
Created guidelines and requirements for future internship programs. Self-appointed.

• Institutional Animal Care and Use Committee, University of the Ozarks, Clarksville, AR 17-Present
Review and process applications for research on animals to ensure proper care and handling. Added to the committee by senior biology faculty.

• Advisor for the Planet Club, University of the Ozarks, Clarksville, AR 16-Present
Helped organize the organization and plan for new ways to recruit members. Recent projects focused on acquire funds from SEEDS (Strategies in Ecology Education, Diversity, and Sustainability) to create programs to attract more members. Self-appointed.

SERVICE ACTIVITIES

• USDA-NIFA Predoctoral Grant Review Panel 21
• ETS AP Biology Test Reader/Grader 20-21
• Asian Giant Hornet presentation for New Vision Education, Los Angeles, CA 20
• Entomological Society of America student competition judge 19
• Bioinformatics Day with local high schools, University of the Ozarks 19
• Bioinformatics Day with local high schools, Ouachita Baptist University 19
• SWIFT coding workshop, Apple Inc. 19
• “Bug Day” at Sequoyah Elementary, Russellville, AR 19
• IMBRE Grant Writing Workshop, University of Arkansas Medical School 19
• Visiting Professor of Marketing Search Committee 19
• INBRE Microbiology Conference, judge, chaperone 18
• TriBeta induction ceremony and attended conference as chaperone, judge, and advisor 17-20
• National Parks course trip faculty, functioned as organizer and chaperone 18
• Assistant Professor of Theatre Search Committee 17
• Judge for Russellville High School science symposium 17-18
• LENS Panel on climate change for new school year 2017-2018 17
• Director of Public Safety Search Committee 18
• Spring Break Outdoors trip, faculty chaperone 17
• Project Poet Judge 17, 19
• Earth Day poetry judge 17, 19
• ARCH student research symposium judge 17, 19
• Faculty coordinator for the Mulberry River Cleanup with Planet Club 17
• “Pack Shack” food packing for the needy 16-17

• Manuscript Review for Functional Ecology Journal 20
“Leaf silification provides herbivore defence regardless of the extensive impacts of water stress”

• Manuscript Review for Oecologia Journal 20
“Changes in arthropod community but not plant quality benefit a specialist herbivore on plant under reduced water availability”. *Reviewed two drafts*

• Summer Bridge Program University of the Ozarks, Clarksville, AR 19
A week-long program for new students enrolled in the Jones Learning Center, which helps students with disabilities succeed at our campus.

• “Warren Sconiers, PhD” article for Arkansas Wild written by Lacey Thacker 18

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An introductory article about my interests, research, courses, and affiliation with the University of the Ozarks. <https://www.arkansaswild.com/warren-sconiers-phd/>

• Science Day, University of the Ozarks, Clarksville, AR 16
Introduced students to entomology at the University of the Ozarks to 45 high school students and staff.

• Manuscript Review for Arthropod-Plant Interactions Journal 16
“Water stress and kaolin spray affect herbivorous insects’ success on cotton”
Luziani R. Bestete, Jorge B. Torres, Rebecca B.B. Silva, and Christian S.A. Silva-Torres

PROFESSIONAL DEVELOPMENT and SCHOLARSHIP

• Department of Ecology and Evolution, Stony Brook University 21
Invited talk
“Urban insect ecology: Understanding pollinator immunity and IPM in human environments”
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• Department of Horticulture, Oregon State University 21
Invited talk
“Urban insect ecology: Understanding pollinator immunity and IPM in human environments”
Warren B. Sconiers

• EREN-NEON and QUEBES Faculty Mentoring Network for COVID-19 21
Joined a cohort of faculty in ecology education as part of national undergraduate-driven studies in ecology. We instructed and helped students collect, analyze, and present data.

• “Fundamentals: Increasing Interaction & Engagement” 21
Higher Learning Commission Online Workshop
Completed a several day workshop learning how to increase student engagement and interaction in the in-person and online classrooms. Various technology, software, and pedagogical skills were discussed.

• “Strategies for Facilitating Live, Online Sessions” 21
Higher Learning Commission Online Workshop
Completed a several day workshop learning how to lead thoughtful and efficient teaching sessions, presentations, and engagement with an online community.

• Entomology Departmental Seminar Series, Purdue University 20
Invited talk
“Urban insect ecology: Understanding pollinator immunity and IPM in human environments”
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• Entomological Society of America Virtual Annual Meeting 20
Oral presentation, P-IE Symposia
“Paring down the effects of plant architectural complexity on organic urban food production”
Warren B. Sconiers, Christina Waddle, Catherine M. Thompson, Lyndsey Cross, Kim Van Scoy

• Entomological Society of America Virtual Annual Meeting Symposium Organizer 20
Co-organizer with Laura Ingwell, P-IE Symposia
“Entomology in Urban Agriculture: Growing Food for All”

- Ecological Society of America 2020 Life Discovery Education Virtual Conference 20
Oral presentation for online education panel
“Using collaborative, student-driven research to lead outdoor laboratory courses”
Warren B. Sconiers
- EREN-NEON and QUEBES Faculty Mentoring Network 20
Joined a cohort of faculty in ecology education as part of national undergraduate-driven studies in ecology. We instructed and helped students collect, analyze, and present data. Incorporated projects researching native insect pollination and woody plant diversity.
- Ecological Society of America: Power of Data Fellowship 20-21
Joined a cohort of graduate students to faculty for mentoring and collaboration on projects with large datasets.
- SEA-PHAGES Bioinformatics Virtual Hackathon 20
Annotating the bacteriophage genome “Peaches” along with a cohort of faculty and staff
- Entomological Society of America annual meeting, St. Louis, MO 19
Oral presentation
“Plant architectural complexity leads to trade-offs in plant yield and pest control with natural enemies in a garden setting”
Warren B. Sconiers, Catherine Marie Thompson, and Kim Van Scoy
- Arkansas Association of Teacher Educators Meeting 2019, Russellville, AR 19
Group oral presentation
“Flip or Flop: Student Reactions to Flipped Classrooms Across Disciplines”
Drs. Allison Freed, **Warren Sconiers**, and Joel Hagaman
- Ecological Society of America annual meeting, Louisville, KY 19
Oral presentation
“Plant architectural complexity leads to trade-offs in plant yield and pest control with natural enemies in a garden setting”
Warren B. Sconiers, Catherine Marie Thompson, and Kim Van Scoy
- Ecological Society of America annual meeting, Louisville, KY 19
Poster: Undergraduate Poster Session
The Negative Effects of Simulated Acid Rain on English Peas (*Pisum sativum*)
Issac G. Julio, Catherine Thompson, and **Warren B. Sconiers**
- ARCH Undergraduate Research Symposium University of the Ozarks, Clarksville, AR 19
Poster
“Bacteriophages made useful and their application in medicine”
Sebastien Emile, and **Warren B. Sconiers**
- Higher Learning Commission Annual Conference, St. Charles, IL 19
Learned the fundamentals of university-level assessment, strategies for starting an assessment program and culture at new and small universities.
- IUPUI Assessment Institute, hosted by University of Indianapolis, Indianapolis, IN 18

Learned from the Higher Learning Commission about university-level assessment for HLC reports and leadership in university assessment.

- SEA-PHAGES Bioinformatics workshop, HHMI, Washington D.C. 18
Learned how to organize and teach the bacteriophage bioinformatics course with a co-instructor. A competitive program geared to give freshman research skills early in their college education. This led to the implementation of the Virus Hunters: Bioinformatics course at University of the Ozarks.
- SEA-PHAGES Phage Discovery Workshop, University of Maryland, Baltimore County 18
Learned how to organize and teach the bacteriophage discovery course with a co-instructor. A competitive program geared to give freshman research skills early in their college education. This led to the implementation of the Virus Hunters: Molecular Ecology course at University of the Ozarks.
- Entomological Society of America annual meeting, Denver, CO 17
Learned about new research ideas in the field of entomology and networked with colleagues.
- McElree funded research grant for garden horticulture and pest control 17
Along with Dr. Kim Van Scoy, we researched how polyculture and monoculture-grown plants create natural pest control. Students involved learned experimental design, implementation of design, data collection, data presentation, and science leadership. This project was funded with a McElree grant (internal university grant).

SERVICE AWARDS

Richard and Katherine Bagwell Outstanding Faculty Award 19

FUNDING AWARDS

- NSF ROA Reward (\$32k) 20
- ESA Power of Data Fellowship Research Travel Award (no \$ due to COVID) 19
- McElree Grant- University of the Ozarks (\$500) 18
- SEEDS Student Chapter Activities Grant for Planet Club (\$500) 18
- McElree Grant- University of the Ozarks (\$750) 17

PEER-REVIEWED PUBLICATIONS while at OZARKS

- **Sconiers, WB**, Rowland, DL, Eubanks, MD. Pulsed drought: The effects of varying water stress on plant physiology and predicting herbivore response. *Crop Science*. 2020; 60: 2543– 2561. <https://doi.org/10.1002/csc2.20235>
- **Sconiers, W. B.**, and M. D. Eubanks. 2017. Not all droughts are created equal? The effects of stress severity on insect herbivore abundance. *Arthropod-Plant Interactions* 11:45–60.

GENOME PUBLICATIONS while at OZARKS

- Sequencing and Annotation of Microbacterium Phage NoodlelyBoi. 2021
DOI: <https://www.ncbi.nlm.nih.gov/nuccore/MW578837>
- Sequencing and Annotation of Gordonia Phage Bunker. 2020
DOI: <https://www.ncbi.nlm.nih.gov/nuccore/MW055901>
- Sequencing and Annotation of Gordonia Phage Odezsa. 2020

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DOI: <https://www.ncbi.nlm.nih.gov/nuccore/MN585988>

- Sequencing and Annotation of Arthrobacter Phage Louis XIV. 2020.
DOI: [10.13140/RG.2.2.17477.19686](https://doi.org/10.13140/RG.2.2.17477.19686)
- Sequencing and Annotation of Gordonia Phage Avazak. 2020.
DOI: [10.13140/RG.2.2.10766.31048](https://doi.org/10.13140/RG.2.2.10766.31048)
- Sequencing and Annotation of Microbacterium Phage ArMaWen. 2020.
https://www.researchgate.net/publication/339311138_GenBank_Sequence_and_Annotation_of_Microbacterium_Phage_ArMaWen

OTHER PUBLICATIONS while at OZARKS

- **Sconiers, W. B.**, 2019. Bugs and Climate Change: Notes from the Field *Arkansas Food and Farm* magazine <https://www.arkansasfoodandfarm.com/bugs-and-climate-change>

PRIOR TO UNIVERSITY OF THE OZARKS



TEACHING EXPERIENCE (repeated courses not listed)

- CALS Dean's Postdoctoral Fellow, NC State University 14-16
*Advisor: Steven D. Frank, Department of Entomology, *Competitive**
This position has research, teaching, and diversity outreach components.
 - Research: Studying the effects of drought and environmental effects on urban tree nutrient concentrations and resulting effects on herbivore abundance in urban forests. In addition, research included temperature and environmental effects on herbivore immune response.
 - Teaching: Insect ecology (graduate level), Seminar: Climate change and plant-insect interactions (graduate level)
 - Outreach: Started an undergraduate chapter of SEEDS (Strategies for Ecology Education, Diversity and Sustainability) at NCSU that promoted student diversity in ecology, environmental sciences, agriculture, and similar fields.
- Faculty of the Citizen Science Program, Bard College, Annandale-on-the-Hudson, NY 16
*Undergraduate-level, non-science majors, *Competitive**
This 3-week course focused on science literacy for freshmen students who are not majoring in science and had three modules: computer modeling, lecture, and laboratory experiments with microbiology.
- Climate Change and Plant-Insect Interactions, NC State University 16
Graduate-level
This seminar course explored the environmental impacts of climate change on plant-insect interactions.
- Insect Ecology, NC State University 15
Graduate-level

In-depth coverage of the interactions between insects, insects and plants, and environmental effects on plant and insect interactions.

- Population Biology, Elon University 15
Guest lecture, undergraduate-level
This lecture discussed how species evolve and the different mechanisms for speciation. The class was in two sections of 11 and 27 students. Part of my Mentoring and Teaching Practicum (MATP) from NCSU.
- General Entomology, Texas A&M University 14
Undergraduate-level
Students were introduced to the world of Entomology covering taxonomy, biology, and the insect orders for approximately 100 students. This course had a laboratory component led by teaching assistants.
- Disease Ecology, Texas A&M University 13
Teaching assistant, undergraduate and graduate-level
I helped develop this course for 25 students. We discussed fundamentals of epidemiology and ecology as well as introduced students to the primary literature of ecology and entomology.
- Disease Ecology, Texas A&M University 13
Guest lecture, undergraduate and graduate-level
Lecture on climate change, global warming, and disease ecology to 25 students.
- Veterinary Entomology Laboratory, Texas A&M University 13
Teaching assistant, undergraduate-level
Taught three laboratory courses for freshmen to senior students (48 students). Lab sections focused on identification, anatomy, and physiology.
- Veterinary Entomology, Texas A&M University 13
Guest lecture, undergraduate-level
Introduced insect evolution and related concepts to 105 students ranging from freshmen to seniors.
- General Entomology Laboratory, Texas A&M University 12
Teaching assistant, undergraduate-level
Taught general entomology to three sections of freshmen to senior students with dissections and emphasis on collection and morphology (50 students).

MENTORSHIPS

- North Carolina School of Science and Mathematics Summer Research Program 15
Mentored: Kimberly Andreassen, high school student
We conducted an experiment on the effects of temperature and drought on the growth and development of urban pests. Ms. Andreassen presented her results in the program's symposium.
- Certificate of Accomplishment in Teaching, student mentor, NC State University 15
Teaching certification for graduate students
Mentored: April Hamblin, Master's student in Entomology
A series of workshops, seminars, and assignments that train graduate students to become more effective instructors. I helped April prepare her teaching portfolio and acquire guest lecture opportunities.
- Undergraduate Independent Project Mentoring: Department of Entomology, Texas A&M 13

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Mentored: Katherine Bass, undergraduate in Zoology

We conducted an experiment on the effects of drought stress on cotton physiology and insect pest interactions. Katherine presented her results in two research symposia.

RESEARCH EXPERIENCE (not mentioned above)

- Dr. Micky Eubanks Insect Ecology Lab, Texas A&M University 09
Graduate student worker
I assisted postdoctoral researchers with research on predator-prey interactions via prey choice using lab and field studies.

- Dr. Suding Plant Environment and Ecology Lab, University of California, Irvine 08-09
Lab Technician
Provided assistance with a project funded by the Federal Department of Energy studying the Loma Ridge Foothills in Orange County, CA. We studied how plant communities recover after fire with various levels of water, various forms of plant recruitment, and added nitrogen.

- Irvine Ranch Conservancy, Irvine, CA 08
Competitive
I was on a team that surveyed over 40 miles of undisturbed land preserves for invasive plants.

- Marsh Management, University of California, Irvine Arboretum, Irvine, CA 08
I conducted invasive plant control, marsh abiotic measurements, and maintained mosquito control.

- NSF REU Independent Research, University of Colorado, Boulder, Boulder, CO 07
*REU (Research Experience for Undergraduates) *Competitive**
Independent research studying the effects of increased nitrogen, snow pack, and temperature on the flowering times of alpine flower species.

- Independent Research, Field Methods in Ecology Course, University of California at Irvine 2007
I researched the effects of increased nitrogen on insect herbivory in a marshland habitat using nitrogen manipulations.

- Dr. Suding Plant Environment and Ecology Lab, University of California, Irvine 07-08
Undergraduate student worker
I researched invasive plant biology and community ecology focusing on the distribution of plant nutrients in plant communities, nutrient analysis techniques, and data analysis.

FUNDING AWARDS

- SEEDS Student Chapter Activities Grant for SEEDS at NCSU (\$150) 16
- CALS Diversity Student Organization Mini-Grant (\$500) 16
- SEEDS Student Chapter Activities Grant for SEEDS at NCSU (\$1,000) 15
- ASM-NSF Leaders Inspiring Networks and Knowledge (LINK) (\$5,000) 15-16
- CALS Dean's Postdoctoral Diversity Fellowship NCSU (\$84,000) 14-16
- U.S. Senator Phil Gramm Doctoral Fellowship (\$5,000) 13
- Gordon Conference Plant-Insect Interactions CSURM Fellowship (\$600) 13
- TAMU Ecology & Evolutionary Biology Graduate Student Travel Grant (\$700) 13
- ESA SEEDS Alumni Travel Grant for National Meeting (\$800) 12
- TAMU Ecology & Evolutionary Biology Graduate Student Travel Grant (\$450) 12
- Ford Foundation Pre-Doctoral Diversity Fellowship - Honorable Mention 12

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- Ford Foundation Pre-Doctoral Diversity Fellowship - Honorable Mention 11
- TAMU Graduate Diversity Fellowship (\$84,000) 09-11
- TAMU Regents Fellowship (\$9,000) 09-10
- 93rd Ecological Society of America, Milwaukee Student Travel Award (\$500) 08
- NSF REU at University of Colorado Mountain Research Station (\$2,500) 07
- SEEDS/NSF University of California, Santa Barbara Coastal LTER Field Trip (\$500) 07

PEER-REVIEWED PUBLICATIONS

- Smith, J.G., **Sconiers W. B.**, Spasojevic, M., Ashton, I.W., and Suding, K. 2012. Phenological changes in alpine plants in response to increased snowpack, temperature, and Nitrogen. *Artic, Antarctic, and Alpine Research*. **44**:135-142.
- Lopez-Urbe, M. M., **Sconiers, W. B.**, Frank, S. D., Dunn, R. R., Tarpy, D. R. 2016. Reduced cellular immune response in social insect lineages. *Biology Letters*. **12**: 20150984

PRESENTATIONS

- 90th Annual Entomological Society of America, Southeast Branch Meeting, Raleigh, NC 16
Turf and Ornamental Symposium
“Urban warming and drought may decrease bagworm abundance and immune response”
Warren B. Sconiers, Kimberly N. Andreassen, Steven D. Frank
- 63rd Annual Entomological Society of America, Minneapolis, MN 15
*PI-E Section Symposium: “Are We Stressed Enough Yet? Interdisciplinary Partnerships to Evaluate the Consequences of Plant Abiotic and Biotic Stresses” *Invited talk**
"Drying out the world: Novel perspectives on how drought stress affects plant-herbivore interactions"
Warren B. Sconiers and Micky D. Eubanks
- 100th Annual Ecological Society of America Meeting, Baltimore, MD 15
Climate Change: Communities I
“Urban outbreaks of herbivores: Determining the effects of nutrients and temperature on herbivore abundance in urban forests”
Warren B. Sconiers, Emily K. Meineke, Steven D. Frank
- NCSSM Summer Research Symposium, Durham, NC 15
North Carolina School of Science and Mathematics Research Symposium 2015
“The effects of increasing urbanization on bagworm development and immunity”
Kimberly Andreassen, **Warren B. Sconiers**, Steven D. Frank
- Glenaire Retirement Community, Cary, NC 15
“Under the Sea: An exploration of sea and marine life”
Warren B. Sconiers and April L. Hamblin
- Spring 2015 Entomology Seminar Series, NC State University 15
“The effects of drought stress on plant-herbivore interactions in agro, natural, and urban ecosystems”
Warren B. Sconiers, Diane L. Rowland, Micky D. Eubanks, Emily K. Meineke, Adam G. Dale, Steven D. Frank
- Glenaire Retirement Community, Cary, NC 15
“Insect wonders: Amazing facts and research”

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Warren B. Sconiers

- 62nd Annual Entomological Society of America, Portland, OR 14
P-IE Section: Environmental Entomology B
“Urban outbreaks of herbivores: Determining the effects of nutrients and drought on herbivore abundance in urban forests” **Warren B. Sconiers**, Emily K. Meineke, Adam G. Dale, Steven D. Frank
- 17th Annual Student Research Week, Texas A&M University 14
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks
- 15th Annual Ecological Integration Symposium, Texas A&M University 14
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks
- Ecology & Evolutionary Biology Student Organization Shop Talk, Texas A&M University 14
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks
- 61st Entomological Society of America, Austin, TX 13
Self-organized Symposium
P-IE Section Symposium: The Environment as the Sculptor: How Abiotic Factors Shape Plant-Insect Interactions: “Stressed plants and herbivores: Exploring the mechanisms of drought's impact on plant-insect interactions”
Warren B. Sconiers and Micky D. Eubanks
- Beltwide Cotton Conference, San Antonio, TX 13
“Examining the effects of aphids and water stress on cotton yield”
Warren B. Sconiers, Micky D. Eubanks
- 60th Entomological Society of America Meeting, Knoxville, TN 12
“The Nutrient Availability Hypothesis: A test of a unifying plant-herbivore hypothesis”
Warren B. Sconiers, Micky D. Eubanks
- Texas A&M 15th Annual Entomology Graduate Student Forum, Texas A&M University 12
“The Nutrient Availability Hypothesis: A test of a unifying plant-herbivore hypothesis”
Warren B. Sconiers, Micky D. Eubanks
- 97th Ecological Society of America Annual Meeting, Portland, OR 12
“The Nutrient Availability Hypothesis: A test of a unifying plant-herbivore hypothesis”
Warren B. Sconiers, Micky D. Eubanks
- 13th Annual Texas A&M Student Ecological Integration Symposium 12
“The effects of pulsed plant stress on herbivore abundance and plant nutrients”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
- Beltwide Cotton Conference, Orlando, FL 12
“The Effects of Pulsed Water Stress on Cotton-Pest Interactions”
Warren B. Sconiers, Diane L. Rowland and Micky D. Eubanks

Warren B. Sconiers, Ph.D.

- Dissertation Proposal Seminar, Texas A&M University 11
“Examining the effects of drought stress on cotton physiology, defense, and herbivore interactions”
Warren B. Sconiers
- 59th Annual Entomological Society of America Annual Meeting, Reno, NV 11
“The effects of pulsed plant stress on herbivore abundance and plant defense”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
- 96th Ecological Society of America Annual Meeting, Austin, TX 11
“Testing the Pulsed Stress Hypothesis on plant-insect interactions”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
- Texas A&M 14th Annual Entomology Graduate Student Forum 11
“The effects of pulsed plant stress on herbivore abundance and plant defense”
Warren B Sconiers, Diane L. Rowland, and Micky D. Eubanks
- 59th Entomological Society of America, Southwest Meeting Amarillo, TX 11
*Symposium: "Irrigation regimes and pest establishment" *Invited Talk**
“Testing the pulsed stress hypothesis on plant-insect interactions”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
- 59th Entomological Society of America, Southwest Meeting Amarillo, TX 11
“Testing the pulsed stress hypothesis on plant-insect interactions”
Warren B Sconiers, Diane L. Rowland, and Micky D. Eubanks
- 2010 Entomology Science Conference, College Station, TX 10
“Testing the pulsed stress hypothesis with cotton aphids”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
- 58th Entomological Society of America Meeting, San Diego, CA 10
“Testing the pulsed stress hypothesis with cotton aphids”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
- Texas A&M 13th Annual Entomology Graduate Student Forum 10
“Testing the pulsed stress hypothesis with cotton aphids”
Warren B Sconiers, Diane L. Rowland, and Micky D. Eubanks
- NSF REU Independent Research, University of Colorado at Boulder, CO 07
Research Experience for Undergraduates Research Symposium
“Alpine plants shift flowering times and flower production in response to increased snowpack, nitrogen, and temperature”
Warren B. Sconiers, Jane G. Smith, Isabel W. Ashton, Marko J. Spasojevic, Katherine N. Suding

PRESENTATIONS AWARDS

- 15th Annual Ecological Integration Symposium Texas A&M University 14
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks
1st Place Graduate Student Oral Presentation

Warren B. Sconiers, Ph.D.

• 60th Entomological Society of America Meeting, Knoxville, TN 12
“The Nutrient Availability Hypothesis: A test of a unifying plant-herbivore hypothesis”
Warren B. Sconiers, Micky D. Eubanks
President’s Prize Runner Up

• 13th Annual Texas A&M Student Ecological Integration Symposium 12
“The effects of pulsed plant stress on herbivore abundance and plant nutrients”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
1st Place EIS/Student Research Week Dual Symposium Competition

• 59th Annual Entomological Society of America Annual Meeting, Reno, NV 11
“The effects of pulsed plant stress on herbivore abundance and plant defense”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
President’s Prize Runner Up

• 59th Entomological Society of America, Southwest Meeting Amarillo, TX 11
“Testing the Pulsed Stress Hypothesis on Plant-Insect Interactions” Graduate Student Competition
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
2nd Place, Ph.D Oral Competition

POSTERS

• NCSU Teaching and Learning Symposium, NC State University 16
“Enhancing student engagement with more classroom responsibility”
Warren B. Sconiers

• 17th Annual Student Research Week, Texas A&M University 14
“Testing the pulsed stress hypothesis with cotton aphids (Hemiptera: *Aphis gossypii*)”
Katharine E. Bass, **Warren B. Sconiers**, Micky D. Eubanks

• 15th Annual Ecological Integration Symposium, Texas A&M University 14
“Testing the pulsed stress hypothesis with cotton aphids (Hemiptera: *Aphis gossypii*)”
Katharine E. Bass, **Warren B. Sconiers**, Micky Eubanks

• 16th Annual Student Research Week, Texas A&M University 13
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks

• 14th Annual Ecological Integration Symposium, Texas A&M University 13
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks

• Gordon Conference on Plant-Insect Interactions, Ventura, CA 13
“The Nutrient Availability Hypothesis: A test of a unifying plant stress-herbivore hypothesis”
Warren B. Sconiers, Micky D. Eubanks
Competitive

• Texas A&M University Student Research Week 11
“Testing the Pulsed Stress Hypothesis on Western Flower Thrips”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks

Warren B. Sconiers, Ph.D.

- 93rd Ecological Society of America Annual Meeting, Milwaukee, WI 08
Poster Session
“Alpine plants shift flowering times and flower production in response to increased snowpack, nitrogen, and temperature”
Warren B. Sconiers, Jane G. Smith, Isabel W. Ashton, Marko J. Spasojevic, Katherine N. Suding

POSTER AWARDS

- 16th Annual Student Research Week Texas A&M University 13
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks
1st Place Graduate Student Competition: Plant/Life Sciences

- 14th Annual Ecological Integration Symposium (EIS), Texas A&M University 13
“The Nutrient Availability Hypothesis: A test unifying plant stress-herbivore interactions”
Warren B. Sconiers, Micky D. Eubanks
3rd Place EIS Graduate Student Competition

- Texas A&M University Student Research Week, Texas A&M University 11
“Testing the Pulsed Stress Hypothesis on Western Flower Thrips”
Warren B. Sconiers, Diane L. Rowland, and Micky D. Eubanks
2nd place in Agriculture & Plant Sciences competition
Environmental Health and Safety Department Safety Recognition Award

SERVICE

- Building Future Faculty Program, Postdoc Panel NC State University 16
Participated on a panel discussing postdoctoral positions, how to acquire them, and my experience for BFF participants.

- Manuscript Review for Arthropod-Plant Interactions Journal 16
“Water stress and kaolin spray affect herbivorous insects’ success on cotton”
Luziani R. Bestete, Jorge B. Torres, Rebecca B.B. Silva, and Christian S.A. Silva-Torres

- NCSU Postdoctoral Association, NC State University 15-16
Diversity Committee Chair
I organized tasks and goals that increase the awareness of postdoc diversity at NCSU.

- ABRCMS Poster Judge, San Antonio, TX 14
Annual Biomedical Research Conference for Minority Students
I served as an external judge for undergraduate posters during the conference.

- SEEDS at NCSU Chapter, NC State University 14-16
Founder and primary advisor
 - This undergraduate student organization is designed to increase student recruitment and retention in the fields of ecology, earth sciences, environmental sciences, biology, and related sciences through field trips, outreach events, and networking opportunities.

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- This student club is part of the national SEEDS (Strategies for Ecology Education, Diversity and Sustainability) educational program under the Ecological Society of America (ESA).

- NCSU Postdoctoral Association, NC State University 14-15
Diversity Committee and Social Committee Member

I helped the rest of the diversity committee improve the awareness of postdoctoral diversity at NCSU and the social committee organize events to increase the interactions of postdocs on campus.

- MANRRS Postdoctoral Mentor, NC State University 14-16
I served MANRRS (Minorities in Agriculture, Natural Resources and Related Sciences) as a postdoctoral mentor for students and function primarily as a role-model and a source of information for students interested in graduate school.

- Manuscript Review for the Journal Entomologia Experimentalis et Applicata 14
“Drought intensity and frequency have contrasting effects on development time and survival of the green spruce aphid”. Banfield-Zanin, J. and Leather, S.

- 61st Entomological Society of America Meeting, Austin, TX 13
PI-E section symposium organizer and moderator
Organized the symposium: “The Environment as the sculptor: How Abiotic Factors Shape Plant-Insect Interactions”

- Texas A&M University Graduate Teaching Academy (GTA) 12
Assistant Director of University Affairs
My team of postdocs and I were responsible for forming collaborations between a variety of university organizations and programs with the Graduate Teaching Academy.

- Manuscript Review for the Journal of Plant Ecology 12
“Is there a gradient in pest pressure along a tropical rainfall gradient?”
Brenes-Arguedas, T. Smithsonian Tropical Research Institute

- Texas A&M University- Apiculture Faculty Search Committee 12
Appointed as Graduate Student Representative, evaluated and interviewed candidates for a position as an Assistant Professor of Entomology in Apiculture.

SERVICE AWARDS

- 2013 U.S. Senator Phil Gramm Doctoral Fellowship (\$5,000) 13
In recognition and appreciation of my outstanding research, teaching, and mentoring at Texas A&M University.

- Gamma Sigma Delta Outstanding Graduate Student Award 13, 14
An award for outstanding scholastic achievement and service for the Entomology Department of Texas A&M University. Gamma Sigma Delta is the honor society for agriculture.

- The President’s Volunteer Service Award-Silver 13
In recognition of accumulating over 150 hours of volunteer service for Texas A&M and the local community during the 2012-2013 academic year.

- Graduate Teaching Academy Senior Fellow 13

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An award for my dedication to the GTA of Texas A&M through my volunteer work as discussion group leader, Assistant Director of University Affairs, a NSF CIRTLL Steering Committee Member, and a member of GTA's Management Committee.

OUTREACH

- Bugfest 2015, North Carolina Museum of Natural Sciences, Raleigh, NC 15
Volunteered to present urban insect ecology and information about parasitoids to children and adults.
- Entomology Education at Jones Elementary School, Wilson, NC 15
Several colleagues and I introduced 640 first to fourth graders to roaches, bees, and tarantulas.
- Bugfest 2014, North Carolina Museum of Natural Sciences, Raleigh, NC 14
Volunteered to present urban insect ecology and information about pollinators to children and adults.
- 61st Entomological Society of America Meeting, Austin, TX 13
Entomology teacher workshop and insect expo volunteer
I volunteered at the teaching workshops held in the Bullock History Museum on how to integrate insects into curriculum for elementary and middle school teaching.
- Southwood Valley Elementary School Techno Science Night, College Station, TX 13
I educated adults and children about insect taxonomy, biodiversity, and natural history.
- 11th Annual U.S. Department of Energy Regional Science Bowl, Texas A&M University 13
I volunteered as a science judge in a national science bowl competition for high school students.
- Rethinking Green on KEOS 89.1 radio, Bryan, TX 13
As part of the Ecological Integration Symposium (EIS) planning committee, I introduced the EIS to a live radio audience and discussed my dissertation research.
- College Station Boy Scout Troop Outreach, Pebble Creek Elementary School, TX 12
As part of a graduate student organization, boy scouts were introduced to the majority of insect orders that are found locally and globally.
- Expand Your Horizons, Texas A&M University 12
As part of a graduate student organization, I introduced insects and the field of entomology to sixth grade girls from local schools.
- 97th Ecological Society of America Annual Meeting Alumni Mentor, Portland, OR 12
I mentored a group of undergraduate students and their mentors interested in a career in ecology and served as a source of advice during the national meeting. This was organized by the SEEDS (Strategies for Ecology Education, Diversity and Sustainability) under ESA.
- 2012 Camp Howdy Girl Scout Camp outreach event, Bryan, TX 12
Several students and I introduced 200 first to fifth grade students to entomology. I provided facts about a variety of insects and demonstrated insect handling.
- 2012 Entomology 4-H/FFA Judging Clinic, Texas A&M University 12
Volunteered as an exam proctor and answered entomology related questions for students and adults.
- Texas A&M Student Research Week 12

I judged undergraduate posters outside of my field for the undergraduate student poster competition.

- 96th Ecological Society of America Annual Meeting, Austin, TX 11
Judge for the Buell/Braun poster and presentation awards. Presider: Plant-Insect Interactions I and III.
- 59th Entomological Society of America, Southwest Meeting Amarillo, TX 11
Outreach program for around 400 elementary students and parents introducing them to the field of entomology with several universities.
- Expand Your Horizons, Texas A&M University 10
Several students and I introduced insects and the field of entomology to sixth grade girls from local schools.

PROFESSIONAL DEVELOPMENT

- Certification in Reflective Teaching (CRT), NC State University 15-16
Teaching certification for faculty and postdoctoral scholars
A series of workshops, seminars, and assignments that engaged participants in ways to improve their teaching through reflection and analyzing their own teaching methods.
- University Teaching Reading Circle, NC State University 15
I met weekly with faculty and graduate students to discuss the book “Teaching what you don’t know” by Therese Huston
- Building Future Faculty Program, NC State University 15
*Future faculty development, *Competitive**
A faculty development program with seminars about the hiring process and meetings with faculty.
- Mentoring and Teaching Practicum (MATP), NC State University 14-15
*Future faculty development, *Competitive**
A faculty development program where participants job shadow, observe the teaching of faculty members, and guest lecture at different universities.
- Certification in Teaching Techniques (CITT), NC State University 14-15
Teaching certification for postdoctoral scholars
A series of workshops, seminars, and assignments that taught effective teaching methods.
- QPR Suicide Prevention Gatekeeper Program, NC State University 15
QPR Gatekeeper Certification (Question, Persuade, Refer)
This program trained me on how to recognize depression and signs of suicidal intentions in students.
- Preparing Future Leaders: University Teaching Reading Circle, NC State University 15
I met throughout the semester with faculty, postdocs, and graduate students to discuss the book “8 Essential Questions Teachers Ask: A Guidebook for Communicating with Students” by Deanna P. Daniels. **Competitive**
- University Teaching Reading Circle, NC State University 15
I met weekly with faculty and graduate students to discuss the book “Make it Stick: The Science of Successful Learning” by Peter C. Brown, Henry L. Roediger III, and Mark A. McDaniel.

- ASM-LINK and ABRCMS Mentoring Program, San Antonio, TX 14
A 3-day workshop on mentoring underrepresented students in STEM fields. We ended a workshop writing a grant on teaching laboratory activities to high school students to provide laboratory experience prior to college applications. The grant was funded.
- University Teaching Reading Circle, NC State University 14
I met with faculty bi-weekly to discuss the book “Teaching Unprepared Students: Strategies for Promoting Success and Retention in Higher Education” by Kathleen F. Gabriel.
- Texas A&M University COTMAN plant mapping training workshop 12
This day-long workshop introduced COTMAN plant mapping software and techniques to predict the timing of cotton boll and lint production.
- Texas A&M University Graduate Teaching Academy (GTA) 12
A two-semester course on professional development for graduate and university-level teaching.
- Texas A&M University Extension Cotton Scout School, San Angelo, TX 11
A professional class teaching how to identify important cotton pests, crop damage, and understanding cotton structure and physiology.

PROFESSIONAL SOCIETIES AND ACTIVITIES

- SEEDS (Strategies for Ecology Education, Diversity and Sustainability) at NCSU 15-16
 - Founder and Primary Advisor
- Gamma Sigma Delta Honor Society of Agriculture 13-15
- Ecological Society of America 07-Present
- Ecological Society of America SEEDS (Strategies for Ecology Education, Diversity and Sustainability) 07-Present
 - Alumni Mentor for 97th Annual Meeting 2012
- Entomological Society of America 09-Present
- Entomological Society of America-Southwestern Branch 11-13
- Entomology Graduate Student Organization, Texas A&M University 09-14
 - Secretary 2010-11
 - Vice President 2011-2012
 - Seminar Committee Chair 2011
 - Entomology Student Representative for Graduate Student Council 2012
- Graduate Teaching Academy at Texas A&M University Organizing Committee 12-13
 - Assistant Director of University Affairs
- Ecology & Evolutionary Biology Interdisciplinary Student Committee, TAMU 10-15
- Ecology & Evolutionary Biology Interdisciplinary Student Organization 12-13
 - Founder & President

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- Ecological Integration Symposium 2013 Planning Committee 13
 - President

- Black Graduate Student Association, Texas A&M University 10-12
 - Treasurer 2010-11