Reed M. Stubbendieck

Assistant Professor

Department of Microbiology and Molecular Genetics, Oklahoma State University

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Education

Ph.D. Genetics *2017*

Texas A&M University *College Station, TX*

- **Adviser:** Dr. Paul Straight
- **Dissertation:** Discovering Linearmycins in Bacterial Competition: Lysis, Autolysis, and Resistance

Certificate - Microbial Specialised Metabolites: Origins and Applications *2014*

John Innes Centre/Rudjer Bošković Summer School in Applied Molecular Microbiology *Dubrovnik, Croatia*

B.S. Biochemistry & Biological Sciences *2011*

University of Nebraska-Lincoln *Lincoln, NE*

Experience

Assistant Professor *2022-Present*

Oklahoma State University - Department of Microbiology and Molecular Genetics *Stillwater, OK*

Postdoctoral Research Associate *2017-2022*

University of Wisconsin-Madison - Department of Bacteriology *Madison, WI*

- **Adviser:** Dr. Cameron Currie

Graduate Research Associate *2012-2017*

Texas A&M University - Department of Biochemistry & Biophysics *College Station, TX*

- **Adviser:** Dr. Paul Straight

Post-Baccalaureate Research Assistant *2011*

University of Nebraska-Lincoln - Department of Biochemistry *Lincoln, NE*

- **Adviser:** Dr. Cheryl Bailey

Undergraduate Research Assistant *2008-2011*

University of Nebraska-Lincoln - Department of Biological Sciences *Lincoln, NE*

- **Adviser:** Dr. Eileen Hebets

Support

Fellowships & Scholarships

Postdoctoral Fellowship in Computation and Informatics in Biology and Medicine *2018-2020*

National Library of Medicine

- **Part of:** T15 LM007359
- **Award:** $103,564

Nebraska Institutional Development Award Program Networks of Biomedical Research Excellence Scholarship *2008-2011*

National Institutes of Health

- **Part of:** P20 RR016469
- **Award:** $10,450

Nebraska Undergraduate Creative Activities and Research Experience Scholarship *2009-2010*

University of Nebraska-Lincoln

- **Award:** $1000

Grants

Determining the Role of Siderophores from Brown-Rot Fungi in Copper Tolerance *2020-2022*

United States Department of Agriculture Forest Service *MSN244765*

- **Roles:** preliminary data, analysis, and writing
- **Award:** $10,000

COVID-19 and the Nasal Microbiome: Potential Marker of Disease Outcomes and Novel Antivirals *2020-2021*

Wisconsin Partnership Program *WPP4658*

- **Roles:** project inception, writing, analysis, and management
- **Award:** $49,452

Identification of Novel MDR Antimicrobials from Human Microbiome Symbioses *2019-2022*

National Institute of Infectious Diseases Centers of Excellence for Translational Research *5U19AI142720-03 7250*

- **Roles:** project inception, preliminary data, analysis, and writing
- **Award:** $1,027,237

Publications

*, indicates co-first authorship. †, indicates corresponding author.

Peer-Reviewed Publications

1. Eishika Dissanayake*, Rebecca A. Brockman-Schneider*, **Reed M. Stubbendieck**, Britney A. Helling, Zhumin Zhang, Yury A. Bochkov, Charmaine Kirkham, Timothy F. Murphy, Carole Ober, Cameron R. Currie, James E. Gern. (2023). Rhinovirus increases *Moraxella catarrhalis* adhesion to the respiratory epithelium. *Frontiers in Cellular and Infection Microbiology*. doi: **10.3389/fcimb.2022.1060748**
2. **Reed M. Stubbendieck†**, Susan E. Zelasko, Nasia Safdar, & Cameron R. Currie. (2021). Biogeography of Bacterial Communities and Specialized Metabolism in Human Aerodigestive Tract Microbiomes. *Microbiology Spectrum*. doi: **10.1128/Spectrum.01669-21**
3. Ming Tang, Jie Lie, Wenpeng Hou, **Reed M. Stubbendieck**, Han Xiong, Jie Jin, Jiyi Gong, Chen Cheng, Xiaoxin Tang, Yinglong Liu, Zhaofeng Li, Jianfeng Wang, & Yin Yi. (2021). Structural variability in the bulk soil, rhizosphere, and root endophyte fungal communities of *Themeda japonica* plants under different grades of karst rocky desertification. *Plant and Soil*. doi: **10.1007/s11104-021-04969-y**
4. **Reed M. Stubbendieck**, Hongjie Li, & Cameron R. Currie. (2019). Convergent evolution of signal-structure interfaces for maintaining symbioses. *Current Opinions in Microbiology*. doi: **10.1016/j.mib.2019.10.001**
5. Mia I. Temkin, Caitlin M. Carlson, Aaron L. Stubbendieck, Cameron R. Currie, & **Reed M. Stubbendieck†**. (2019). High Throughput Co-culture Assays for Investigation of Microbial Interactions. *Journal of Visualized Experiments*. doi: **10.3791/60275**
6. Marc G. Chevrette*, Jennifer R. Bratburd*, Cameron R. Currie, & **Reed M. Stubbendieck†**. (2019). Experimental Microbiomes: Models Not to Scale. *mSystems*. doi: **10.1128/mSystems.00175-19**
7. **Reed M. Stubbendieck†**, Daniel S. May, Marc G. Chevrette, Mia I. Temkin, Evelyn Wendt-Pienkowski, Julian Cagnazzo, Caitlin M. Carlson, James E. Gern, & Cameron R. Currie. (2019). Competition among Nasal Bacteria Suggests a Role for Siderophore-Mediated Interactions in Shaping the Human Nasal Microbiota. *Applied and Environmental Microbiology*. doi: **10.1128/AEM.02406-18**
8. **Reed M. Stubbendieck**, Dakota J. Brock, Jean-Philippe Pellois, Jason J. Gill, & Paul D. Straight. (2018). Linearmycins are lytic membrane-targeting antibiotics. *The Journal of Antibiotics*. doi: **10.1038/s41429-017-0005-z**
9. B. Christopher Hoefler*, **Reed M. Stubbendieck***, N. Kalyani Josyula, Sabrina M. Moisan, Emma M. Schulze, & Paul D. Straight. (2017). A Link between Linearmycin Biosynthesis and Extracellular Vesicle Genesis Connects Specialized Metabolism and Bacterial Membrane Physiology. *Cell Chemical Biology*. doi: **10.1016/j.chembiol.2017.08.008**
10. **Reed M. Stubbendieck**, & Paul D. Straight. (2017). Linearmycins Activate a Two-component Signaling System Involved in Bacterial Competition and Biofilm Morphology. *Journal of Bacteriology*. doi: **10.1128/JB.00186-17**

11. **Reed M. Stubbendieck**, Carol Vargas-Bautista, & Paul D. Straight. (2016). Bacterial Communities: Interactions to Scale. *Frontiers in Microbiology*. doi: **10.3389/fmicb.2016.01234**

12. **Reed M. Stubbendieck**, & Paul D. Straight. (2016). Multifaceted Interfaces of Bacterial Competition. *Journal of Bacteriology*. doi: **10.1128/JB.00275-16**

13. **Reed M. Stubbendieck**, & Paul D. Straight. (2015). Escape from Lethal Bacterial Competition through Coupled Activation of Antibiotic Resistance and a Mobilized Subpopulation. *PLOS Genetics*. doi: **10.1371/journal.pgen.1005722**

14. **Reed M. Stubbendieck**, Anthony J. Zera, & Eileen A. Hebets. (2013). No evidence for a relationship between hemolymph ecdysteroid levels and female reproductive behavior in *Schizocosa* wolf spiders. *The Journal of Arachnology*. doi: **10.1636/B12-71.1**

Book Chapters

1. **Reed M. Stubbendieck**, & Paul D. Straight. (2020). Specialized Metabolites for Bacterial Communication. *Comprehensive Natural Products III: Chemistry and Biology*. doi: **10.1016/B978-0-12-409547-2.14803-6**

In Press

1. Rauf Salamzade, J.Z. Alex Cheong, Shelby Sandstrom, Mary Hannah Swaney, **Reed M. Stubbendieck**, Nicole Lane Starr, Cameron R. Currie, Anne M. Singh, & Lindsay Kalan. (2023). Evolutionary investigations of the biosynthetic diversity in the skin microbiome using *lsa*BGC. *Microbial Genomics*.

Under Review

1. **Reed M. Stubbendieck†**, Eishika Dissanayake, Peter M. Burnham, Susan E. Zelasko, Mia I. Temkin, Sydney S. Wisdorf, Rose F. Vrtis, James E. Gern, & Cameron R. Currie. (2023). *Rothia* from the human nose inhibit *Moraxella catarrhalis* colonization with a secreted peptidoglycan endopeptidase.

Licenses

Fluorescent-Tagged *Moraxella catarrhalis* For Cell Culture Experiments *2021*

Wisconsin Alumni Research Foundation

P210244US01

Awards

Platform Presentation and Poster Awards

Molecular Genetics of Bacteria and Phages Meeting *2016*

Outstanding Poster Award

24th Annual Texas A&M University Biochemistry & Biophysics Graduate Student Oral Research Competition *2016*

1st Place Award

1st Annual Texas A&M University Genetics Graduate Student Oral Research Competition *2016*

1st Place Award

Texas A&M University Genetics Graduate Student Poster Competition *2016*

4th Place Award

Nebraska's Institutional Development Awards Networks of Biomedical Research Excellence Annual Convention Poster Competition *2016*

2nd Place Award

Travel Awards

Texas A&M Genetics Graduate Student Association Travel Award *2016*

Recipient

- **Award:** $500

Texas A&M Genetics Graduate Student Association Travel Award *2015*

Recipient

- **Award:** $500

Texas A&M Biochemistry Graduate Student Association Travel Award *2014*

Recipient

- **Award:** $500

Texas A&M Genetics Graduate Student Association Travel Award *2014*

Recipient

- **Award:** $500

Mentoring

Oklahoma State University (Total: 5)

Undergraduate Students (Current: 5, Total: 5)

Helen Zaghloul *2023-Present*

Addison Browning *2023-Present*

Reagan Decker *2022-Present*

Luke Myers *2022-Present*

Claire Daniel *2022-Present*

University of Wisconsin-Madison (Total: 7)

Rotating Graduate Students (Total: 3)

Susan Zelasko *2018*

Microbiology Doctoral Training Program M.D./Ph.D. Student

Kirsten Gotting *2017*

Genetics Ph.D. Student

Lauren Lucas *2017*

Microbiology Doctoral Training Program Ph.D. Student

Undergraduate Students (Total: 4)

Kristi Hetchler *2019-2020*

- **Project Title:** Detecting and Determining Mode of Action of Bacteria that Inhibit *Moraxella catarrhalis* Using Stress Response Promoters

Timothy Davenport *2019-2020*

- **Project Title:** Sticking Our Noses in *Moraxella catarrhalis* Sensitivity to the Human Nasal Microbiome

Quin Perrault *2019*

- **Project Title:** The Susceptibility of Nasal Bacteria to Lysozyme

Mia Temkin *2018-2019*

- **Thesis Title:** Investigating the inhibition of *Moraxella catarrhalis* by the nasal microbiota

Texas A&M University (Total: 14)

Rotating Graduate Students (Total: 10)

Paul Merlau *2016*

Biochemistry & Biophysics Ph.D. Student

Neha Deshpande *2016*

Biochemistry & Biophysics Ph.D. Student

Huajun Han *2015*

Biochemistry & Biophysics Ph.D. Student

Donna Iadarola *2015*

Biochemistry & Biophysics Ph.D. Student

Ishita Chandel *2015*

Biochemistry & Biophysics Ph.D. Student

John Mosior *2015*

Biochemistry & Biophysics Ph.D. Student

Dakota Brock *2014*

Biochemistry & Biophysics Ph.D. Student

Chengxi Zhang *2014*

Biochemistry & Biophysics Ph.D. Student

Yue Xing *2013*

Genetics Ph.D. Student

Diana Medina *2013*

Genetics Ph.D. Student

Undergraduate Students (Total: 4)

Paolo Giovanelli *2016*

- **Thesis Title:** Isolation and partial characterization of a specialized metabolite that induces sliding motility in *Bacillus subtilis*

Yifan Ma *2016*

Roosheel Patel *2013-2015*

- **Thesis Title:** *In vivo* transposon mutagenesis of *Streptomyces* sp. Mg1

Daniel Labuz *2018-2019*

National Science Foundation Research Experiences for Undergraduates Student

- **Project Title:** Transposon mutagenesis to identify *Bacillus subtilis* resistance to lytic/degradative activity

University of Nebraska-Lincoln (Total: 1)

Undergraduate Students (Total: 1)

Travis Jensen *2011*

- **Project Title:** A Simplistic Bioinformatics Approach to Clade Identification in *Chlorella*-like Green Algae

Teaching

Courses

Oklahoma State University

Seminar *2023-Present*

Primary Instructor *MICR 5160*

Special Problems: Research *2022-Present*

Primary Instructor *MICR 4990*

Texas A&M University

Comprehensive Genetics Laboratory for Non-Majors and Majors *2015-2016*

Laboratory Instructor *GENE 311 & 312*

Comprehensive Genetics Laboratory for Non-Majors and Majors *2011-2012*

Laboratory Instructor *GENE 301 & 302*

University of Nebraska-Lincoln

Independent Research in Bioinformatics *2010-2011*

Teaching Assistant *BIOC 498*

Biochemistry I *2010-2011*

Teaching Assistant *BIOC 431*

General Chemistry I and II *2009-2011*

Undergraduate Teaching Assistant Corps *CHEM 109-110*

Organismal Biology Laboratory *2009*

Laboratory Instructor *BIOS 103*

Guest Lectures

The Role of the Human Microbiome in Health and Disease *2021*

University of Wisconsin-Madison *MMI 902*

- **Instructor:** Dr. Lindsay Kalan
- **Lecture:** Airway Microbiomes

Introduction to Biomedical Engineering *2019*

University of Central Oklahoma *BME 1311*

- **Instructor:** Dr. Scott Mattison
- **Lecture:** Antibiotics: From Below Your Toes to Inside Your Nose

Diversity, Ecology, and Evolution of Microorganisms *2018-2019*

University of Wisconsin-Madison *MICRO 450*

- **Instructors:** Drs. Cameron Currie & Federico Rey
- **Lecture:** Community Ecology and Microbial Interactions

Service

Peer Review

Ad Hoc Peer Reviewer for *Frontiers in Microbiology*, *Journal of Bacteriology*, *Journal of Visualized Experiments*, *Microbial Genomics*, *Microbiology Spectrum*, *mSystems*, *PeerJ*, *Scientific Reports*, and *World Journal of Microbiology and Biotechnology* (see **Web of Science** for a full list of verified reviews).

Editorial Roles

Frontiers in Bacteriology *2022-Present*

Review Editor

Section: Molecular Bacteriology and Microbiome

Student Dissertation & Thesis Committees

Oklahoma State University (Current: 2, Total: 2)

Autumn Hansen *2023-Present*

Microbiology and Molecular Genetics M.S. Student

Damilare Ajagbe *2022-Present*

Microbiology and Molecular Genetics Ph.D. Student

Outreach

Skype a Scientist *2018-Present*

Online

I meet with K-12 classes virtually across the United States for informal conversations about how microbiology influences our lives and to answer students' questions about careers in STEM fields.

Wisconsin Science Expeditions *2017-2022*

The Currie Laboratory - Univeristy of Wisconsin-Madison

Using interactive activities and a living display of a fungus-farming ant colony, members of the Currie laboratory educate the Madison community about symbiosis between animals and microbes, antimicrobial drug discovery, and the development of biofuels.

Scientific Sidequests *2018-2019*

Online

I contributed articles to a blog called **Scientific Sidequests** that focused on explaining scientific concepts to a lay audience using examples from popular culture.

Nebraska Science Olympiad *2011*

Science Olympiad

I generated and reviewed questions for the biology section of the Nebraska Science Olympiad contest.

Upward Bound *2009-2011*

The Hebets Laboratory - University of Nebraska-Lincoln

As a member of the Hebets laboratory, I was part of a university program that invited low-income first-generation high school students to participate in summer research experiences with the goal of helping students recognize their potential and encourage them to pursue future STEM education.

Professional Activities

Platform Presentations & Seminars

University of Oklahoma *2023*

Department of Microbiology and Plant Biology Seminar Series

- **Talk Title:** Actinobacteria Mediate Pathogen Inhibition and Iron Competition in the Nose

Texas A&M University *2022*

Genetics and Genomics Seminar Series

- **Talk Title:** Actinobacteria Compete for Iron and Reduce Pathogen Colonization in the Human Nose

International Society for the Biology of Actinomycetes *2022*

Conference Presentation

- **Talk Title:** Actinobacteria Reduce Pathogen Colonization in the Human Nose

Oklahoma State University *2022*

Department of Microbiology and Molecular Genetics Seminar

- **Talk Title:** Microbial Competition: From Beneath Your Toes to Inside Your Nose

Auburn University *2021*

Department of Chemistry & Biochemistry Seminar

- **Talk Title:** Natural Products in Microbial Competition: From Beneath Your Toes to Inside Your Nose

University of Wisconsin-Milwaukee *2021*

Department of Biological Sciences Seminar

- **Talk Title:** Bacterial Competition: From Beneath Your Toes to Inside Your Nose

University of North Carolina Chapel Hill *2021*

Catalyst Symposium

- **Talk Title:** Competition and Specialized Metabolism Shape Bacterial Communities in Aerodigestive Tract Microbiomes
- Invited Speaker
- Online Due to COVID-19 Pandemic

University of Wisconsin-Madison *2020*

Computation and Informatics in Biology and Medicine Seminar Series

- **Talk Title:** Aerodigestive Tract Microbiomes Possess Extensive and Varied Potential for Specialized Metabolism
- Online Due to COVID-19 Pandemic

National Library of Medicine Informatics Training Conference *2020*

Hosted at Oregon Health and Sciences University

- **Talk Title:** Investigating the Antibiotic Biosynthetic Potential of the Aerodigestive Tract Microbiome
- Online Due to COVID-19 Pandemic

Prokaryotic Pathogens Seminar Series *2020*

Online

- **Talk Title:** Competition among Nasal Bacteria Suggests a Role for Siderophore-Mediated Interactions in Shaping the Human Nasal Microbiota

Rutgers University *2019*

Symposium Celebrating 75TH Anniversary of Discovery of Streptomycin

- **Talk Title:** Ants, Agriculture, and Antibiotics: Drugs from Bugs of Bugs and Beyond
- Keynote Speaker

University of Wisconsin-Madison *2018*

Computation and Informatics in Biology and Medicine Seminar Series

- **Talk Title:** Microbial Competition from Below Your Toes to Inside Your Nose

Conference on Beneficial Microbes *2018*

Hosted at the University of Wisconsin-Madison

- **Talk Title:** Bacterial Competition Mediated by Siderophore Production from the Human Nasal Microbiota

Texas A&M University *2016*

Student Research Week

- **Talk Title:** Crisis Control: Adaptation to Microbial Competition

Texas A&M University *2016*

24TH Annual Biochemistry & Biophysics Graduate Student Oral Research Competition

- **Talk Title:** Escape from Lethal Bacterial Competition through Coupled Activation of Antibiotic Resistance and a Mobilized Subpopulation
- 1st Place Award

Texas A&M University *2016*

1ST Annual Genetics Graduate Student Oral Research Competition

- **Talk Title:** Escape from Lethal Bacterial Competition through Coupled Activation of Antibiotic Resistance and a Mobilized Subpopulation
- 1st Place Award

Texas A&M University *2015*

Genetics Graduate Student Seminar Series

- **Talk Title:** Escape from Lethal Bacterial Competition through Coupled Activation of Antibiotic Resistance and a Mobilized Subpopulation

Texas A&M University *2015*

Biochemistry Graduate Student Seminar Series

- **Talk Title:** Chemical Genetic Approach to Understanding Lysis and Degradation of *Bacillus subtilis* by *Streptomyces* sp. Mg1

Texas A&M University *2013*

5TH Annual A. I. Scott Symposium for Excellence in Biological Chemistry

- **Talk Title:** Lysis and Degradation of *Bacillus subtilis* in Competition with *Streptomyces* sp. Mg1

Nebraska Academy of Sciences *2010*

Annual Meeting

- **Talk Title:** The Relationship between 20-Hydroxyecdysone and Reproductive Behavior and Physiology in Wolf Spiders

Nebraska's Institutional Development Award Networks of Biomedical Research Excellence *2009*

Annual Research Conference

- **Talk Title:** Radioimmunological Determination of Ecdysteroid Titers in *Schizocosa* Wolf Spiders

Nebraska Academy of Sciences *2009*

Annual Meeting

- **Talk Title:** The Effect of 20-Hydroxyecdysone in *Schizocosa* Wolf Spiders

Poster Presentations

Conference on Beneficial Microbes *2022*

University of Wisconsin-Madison

- **Poster Title:** Human nasal *Rothia* mitigate *Moraxella catarrhalis* infection through production of secreted antimicrobial proteins

Computation and Informatics in Biology and Medicine Training Program and the Bio-Data Science Program Annual Retreat *2019*

University of Wisconsin-Madison

- **Poster Title:** Investigating the Human Nasal Cavity Microbiome as a Source of Novel Narrow-Spectrum Antibiotics

Molecular Genetics of Bacteria and Phages *2019*

Annual Meeting

- **Poster Title:** Digging for Antibiotic Gold from the Human Nasal Cavity Microbiome

Computation and Informatics in Biology and Medicine Training Program and the Bio-Data Science Program Annual Retreat *2018*

University of Wisconsin-Madison

- **Poster Title:** Bacterial Competition Mediated by Siderophore Production in the Human Nasal Cavity

Madison Microbiome Meeting *2018*

University of Wisconsin-Madison

- **Poster Title:** Bacterial Competition Mediated by Siderophore Production in the Human Nasal Cavity

Molecular Genetics of Bacteria and Phages *2016*

Annual Meeting

- **Poster Title:** Interface of Specialized Metabolism and Developmental Functions to Promote the Fitness of Bacteria in Competition
- Outstanding Poster Award

5th Conference on Prokaryotic Cell Biology *2015*

American Society for Microbiology

- **Poster Title:** Lysis of *Bacillus subtilis* in Competition with *Streptomyces* sp. Mg1

Genetics Graduate Program Graduate Research Competition *2015*

Texas A&M University

- **Poster Title:** A Mechanism of Resistance in a Model Bacterial Competition
- 4th Place Award

Microbial Specialised Metabolites: Origins and Applications *2014*

5th John Innes-Rudjer BoÅ¡kovic Summer School in Applied Molecular Microbiology

- **Poster Title:** Chemical Genetic Approach to Understanding Lysis and Degradation of *Bacillus subtilis* by *Streptomyces* sp. Mg1

Microbial Stress Response *2014*

Gordon Research Conferences

- **Poster Title:** Chemical Genetic Approach to Understanding Lysis and Degradation of *Bacillus subtilis* by *Streptomyces* sp. Mg1

6th Annual Genetics Graduate Student Association Mini-Symposium *2014*

Texas A&M University

- **Poster Title:** Chemical Genetic Approach to Understanding Lysis and Degradation of *Bacillus subtilis* by *Streptomyces* sp. Mg1

Genetics Graduate Student Research Competition *2014*

Texas A&M University

- **Poster Title:** Chemical Genetic Approach to Understanding Lysis and Degradation of *Bacillus subtilis* by *Streptomyces* sp. Mg1

5th Annual Genetics Graduate Student Association Mini-Symposium *2013*

Texas A&M University

- **Poster Title:** Identifying Molecules Responsible for Competitive Lysis and Degradation of *Bacillus subtilis*

Genetics Graduate Student Research Competition *2013*

Texas A&M University

- **Poster Title:** Identifying Molecules Responsible for Competitive Lysis and Degradation of *Bacillus subtilis*

Biochemistry Department Bioinformatics Poster Session *2010*

University of Nebraska-Lincoln

- **Poster Title:** Annotation of the CG11148 Isoform Splice Sites and fd19B Gene Location in *Drosophila grimshawi*

Nebraska's Institutional Development Awards Networks of Biomedical Research Excellence Annual Research Convention *2010*

Annual Research Conference

- **Poster Title:** Investigating the Functions of Ecdysteroids in *Schizocosa* Wolf Spiders
- 2nd Place Award

Biochemistry Department Bioinformatics Poster Session *2010*

University of Nebraska-Lincoln

- **Poster Title:** Proposed Annotation for an ATP Synthase F0 Subcomplex b Subunit Gene in *Cellulomonas flavigena*

Undergraduate Creative Activities and Research Experience Annual Poster Session *2010*

University of Nebraska-Lincoln

- **Poster Title:** The Effect of 20-Hydroxyecdysone in *Schizocosa* Wolf Spiders

Affiliations & Memberships

American Society for Microbiology

Washington, DC *2014-Present*

- Member (2014-Present)

Biochemistry Graduate Student Association

Texas A&M University *2012-2017*

- Member (2012-2017)

Genetics Graduate Student Association

Texas A&M University *2011-2017*

- President (2013-2014)
- Treasurer (2012-2013)
- Member (2011-2017)

Professional Development Courses & Workshops Attended

Early Career Faculty Program *2022*

Oklahoma State University - Institute for Teaching and Learning Excellence

Wisconsin Idea STEM Fellows Workshop *2020*

Morgridge Institute for Research

Deciphering the Microbiome Workshop *2019*

National Science Foundation

- Invited Participant

Interacting with the Media: Tips for Scientists Workshop for Postdocs *2019*

University of Wisconsin-Madison

Delta Internship Seminar Series *2019*

University of Wisconsin-Madison - Center for the Integration of Research, Teaching and Learning Course

Writing Across the Curriculum *2019*

University of Wisconsin-Madison - Center for the Integration of Research, Teaching and Learning Course

Teaching in an Internationally Diverse Classroom *2018*

University of Wisconsin-Madison - Center for the Integration of Research, Teaching and Learning Course

Did Your Students Learn What You Wanted Them To? Writing Effective/Measurable Learning Outcomes *2018*

University of Wisconsin-Madison

Research Mentorship Series *2018*

University of Wisconsin-Madison

Project Management Workshop *2018*

University of Wisconsin-Madison

Applying for NIH K Awards *2018*

University of Wisconsin-Madison

Microbiota Data Analysis in R *2017*

University of Wisconsin-Madison - Biotechnology Center

Microbiota Data Analysis in mothur *2017*

University of Wisconsin-Madison - Biotechnology Center

Assessing Your Transferrable Skills *2017*

University of Wisconsin-Madison

Mentoring Undergraduates *2011*

Texas A&M University