

# JACKIE SHAY

## *Curriculum Vitae*

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### **EDUCATION**

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- Doctor of Philosophy** 2021  
Quantitative and Systems Biology: Ecology and Evolutionary Biology  
*University of California, Merced*  
Advised by Dr. A. Carolin Frank and Dr. Jason P. Sexton  
Dissertation title: Adaptation in times of stress: community responses in monkeyflowers, microbes, and classrooms.
- Master of Science** 2016  
Biological Sciences: Ecology, Evolution, and Conservation Biology  
*San Francisco State University*  
Advised by Dr. Dennis E. Desjardin  
Thesis title: Biodiversity and phylogeny of *Marasmius* (Basidiomycota, Agaricales) from Madagascar
- Bachelor of Science** 2009  
Biological Sciences: Molecular and Cellular Biology  
*University of California, Merced*

### **TEACHING EXPERIENCE**

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- Associate Director, Center for Engaged Teaching and Learning** 2020–present  
*Division of Undergraduate Education, University of California, Merced*
- Design and implement professional development pedagogy programs that promote equitable teaching practices
  - Develop and deliver services and programs for new hires, workshops on course design and assessment, and inclusive teaching
  - Serve as a contact for individual instructors seeking advice on matters related to teaching, including creating hybrid and/or online courses, individual faculty coaching, and effective delivery of class material
  - Collaborate with campus partners such as Equity, Diversity, and Inclusions Office, Student Affairs, Graduate Division, and fellow University of California Teaching Centers to develop engaging and inclusive presentations
  - Advised 128 faculty, graduate students, postdocs, and staff to implement evidenced-based pedagogy
  - Supervised 3 graduate teaching fellows in delivering pedagogy programming
  - Trained 555 graduate student and postdocs in equity-minded teaching
- Co-Instructor for General Microbiology** 2018–2020  
*School of Natural Sciences, University of California, Merced*
- Created course learning outcomes based on core concepts and competencies
  - Designed a flipped, hybrid curriculum using a Backward Design approach
  - Facilitated engaging active learning including problem-based learning
  - Developed inquiry-based poster project, rubric, and peer-review milestones
  - Led discussion sessions focused on culturally responsive teaching
  - Recorded and edited content videos and managed course on Canvas

- Graduate Student Teaching Assistant for Biology** 2016–2018  
*School of Natural Sciences, University of California, Merced*
- Facilitated engaging active learning in discussions, labs, and field trips
  - Developed student-centered activities for general biology to share with TAs
  - Implemented pre- and post-assessments to measure main takeaways, points of clarification, and receive constant student feedback
- Graduate Student Teaching Assistant for Biology** 2012–2016  
*Department of Biology, San Francisco State University*
- Facilitated lab and field classes in botany and ecology
  - Served as a supplemental instructor for an optional 1-credit course that used active learning to support students through the regular course materials
- Youth Development and Health Educator** 2010–2012  
*Peace Corps, Demnat and Tiznit, Morocco, Africa*
- Built peer health education program with local nurses and teacher
  - Developed students in leadership, creativity, and community engagement
- Undergraduate Teaching Assistant for Evolution** 2008–2009  
*School of Natural Sciences, University of California, Merced*
- Developed course curriculum and materials with faculty and TAs
  - Served as a learning assistant for students during lecture
  - Implemented “Strange Species” series to inspire curiosity in students
- Undergraduate Biology Tutor** 2006–2008  
*Tutoring Center, University of California, Merced*
- Facilitated peer-learning in anatomy, biology, evolution, and genetics
  - Co-authored inaugural student tutor training manual with learning staff

## **RESEARCH & PROFESSIONAL EXPERIENCE**

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- Resilience Research Group** 2022–present  
*University of California*
- Engaged in interdisciplinary collaboration and research understanding the role between self-efficacy and community cultural wealth in student success
- Chair of Central Valley Regional Interdisciplinary Symposium on Education Research (CV-RISER)** 2021–present  
*University of California, Merced*
- Manage the planning and development of the inaugural education research symposium in the California Central Valley
  - Served as Senior Personnel on awarded NSF Grant Proposal 2207863
- Graduate Student Researcher** 2016–2021  
*School of Natural Sciences, University of California, Merced*
- Investigated community responses of endophytic communities from native endemic flowering plants in response to environmental variation and drought using molecular, bioinformatic, and fieldwork techniques
  - Led over 30 field expeditions across the Sierra Nevada
  - Mentored 10 students, 7 women of color, in laboratory techniques, fieldwork, professional development, and science identity in STEM fields
  - Managed lab safety in 2 labs as dual lab safety coordinator

**U.S. Department of Energy Joint Genome Institute Summer Intern** 2017*USDE Joint Genome Institute, Walnut Creek, California*

- Advised by program director Dr. Zhong Wang in Research and Development department on the Genome Constellation Project
- Created video tutorials to increase access to genomic software
- Shared media with funding agencies to demonstrate needs for accessibility

**Harry D. Thiers Herbarium Assistant Curator** 2012–2016*Department of Biology, San Francisco State University*

- Performed herbarium maintenance including accessioning, labeling, digitizing, organizing, and confirming stored specimens
- Trained 4 undergraduate researchers in digitizing procedure and handling

**Graduate Student Researcher** 2012–2016*Department of Biology, San Francisco State University*

- Studied systematics and phylogeny of wood-decomposing fungi from tropics using molecular, morphological, and field-based techniques
- Led a month-long field expedition to Madagascar with local collaborators
- Worked in a collaborative Genomics/Transcriptomics Analysis Core (GTAC)

**PUBLICATIONS**

- Shay, J.E.**, Pennington, L.K., Mandussi Montiel-Molina, J.A., Towes, D.J., Hendrickson, Brandon T., Sexton, Jason P. (2021). Rules of plant species ranges: applications for conservation strategies. *Frontiers in Ecology and Evolution*. 9:664. doi.org/10.3389/fevo.2021.700962
- Shay, J.E.**, Pohan, C. (2021). Resilient instructional strategies: helping students cope and thrive in crisis. *Journal of Microbiology and Biology Education*. 22(1). doi:10.1128/jmbe.v22i1.2405
- Shay, J.E.**, Solis, R., García-Ojeda, M.E. (2020). Tackling real-world environmental paper pollution: a problem-based microbiology lesson about carbon assimilation. *Frontiers in Microbiology* 11: 588918. doi:10.3389/fmicb.2020.588918
- Wang Z., Ho H., Egan R., Yao S., Kang D., Froula J., Sevim V., Schulz F., **Shay J.E.**, Macklin D., McCue K., Orsini R., Barich D.J., Sedlacek C.J., Li W., Morgan-Kiss R.M., Woyke T., Sloncwski J.L. (2019). A new method for rapid genome classification, clustering, visualization, and novel taxa discovery from metagenome. *bioRxiv*. doi:10.1101/812917
- Grace C.L., Desjardin D.E., Perry B.A., **Shay J.E.** (2019). The genus *Marasmius* (Basidiomycota, Agaricales, Marasmiaceae) from Republic of São Tomé and Príncipe, West Africa. *Phytotaxa* 414(2): 055–104. doi:10.11646/phytotaxa.414.2.1
- Frank A.C., Saldierna Guzmán J.P., **Shay J.E.** (2017). Transmission of bacterial endophytes. *Microorganisms* 5(4): 70. doi:10.3390/microorganisms5040070
- Desjardin D.E., Perry B.A., **Shay J.E.**, Newman D.S., Randrianjohany E. (2017). The Type species of *Tetrapyrgos* and *Campanella* (Basidiomycota, Agaricales) are redescribed and epitypified. *Mycosphere* 8(8): 977–985. doi:10.5943/mycosphere/8/8/1

- Sexton J.P., Montiel J., **Shay J.**, Stephens M., & Slatyer R. (2017). Evolution of ecological niche breadth. *Annual Review of Ecology, Evolution, and Systematics* 48(1): 183-206. doi:10.1146/annurev-ecolsys-110316-023003
- Shay J.E.**, Desjardin D.E., Grace C.L., Perry B.A., Grace C.L., Newman D.S. (2017). Biodiversity and phylogeny of *Marasmius* (Basidiomycota, Agaricales) from Madagascar. *Phytotaxa* 292(2): 101–149. doi:10.11646/phytotaxa.292.2.1
- In revision:* **Shay, J.E.**, Pennington, L.K, Toews, D.J., Green, E., Sexton, J.P. Climate adaptation and fitness variation are greatest at the leading edge of a species range.
- In preparation:* **Shay, J.E.**, Brooks, L.E., Sexton, J.P., Sistro, M.J., Kaze, M., Frank, A.C. Spatial, temporal, and environmental variation structures native monkeyflower endophytes.
- In preparation:* Salinas, A., Frank, A.C., Sexton, J.P., **Shay, J.E.** Plant microbiomes across a species range: Are microbial communities shaped by their climate environment in *Mimulus laciniatus* (Phrymaceae)?

## **FACILITATED COURSEWORK**

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### *\*Field-based course*

- Scientific Teaching QSB 201** Fall 2020, 2021, 2022  
*University of California, Merced*
- Co-facilitated lessons on learning outcomes, assessment, and active learning
  - Provided feedback on inclusive microteaching assignments
- General Microbiology BIO 120 (Co-Instructor)** Fall 2018–Spring 2020  
*University of California, Merced*
- Developed flipped classroom curriculum, outcomes, and course content
  - Engaged students with active learning teaching both online and in-class
  - Utilized Learning Glass™ and Camtasia™ for video creation and editing
- Contemporary Biology BIO 001** Fall 2016, 2017  
*University of California, Merced*
- Guest lectured for fungal and plant sections of the course
  - Facilitated weekly discussion with activities, learning outcomes, and reviews
  - Developed activities, assessments, and review sessions for future course use
- Flora of California BIO/ESS 133\*** Spring 2017  
*University of California, Merced*
- Guided students through plant identification and field trip excursions
  - Collected plant material for identification based on plant family
  - Guest lectured for soil ecology and symbiosis lectures
- General Botany BIO 220** Fall 2015  
*College of San Mateo*
- Co-instructor working with faculty to implement and collect evidence on evidenced-based teaching strategies
  - Developed assessment-based approach to active learning
  - Collected and presented data from course to SEPAL Summer Institute
- Fungi of Sierra Nevada\*** Summer 2015  
*Sierra Nevada Field Campus, San Francisco State University*
- Supported field work expeditions and microscopic identification of fungi
  - Implemented guided hands-on learning experiences for students

**Introduction to Biology II BIO 240** Spring 2014–Spring 2016*San Francisco State University*

- Taught discussion, lab, and supplemental courses
- Assisted students in lab and discussion sections component of class
- Facilitated mini-lectures, lab activities, and discussions for deeper engagement
- Supplemented learning by working strictly on active learning strategies, growth mindset, and inquiry-based learning

**Biology of the Fungi BIO 504\*** Fall 2014, 2015*San Francisco State University*

- Served as an assistant to Dr. Desjardin as needed in lab or in the field
- Provided support to students as a learning assistant
- Collected fungi from the field or herbaria for microscopy lab

**World of Plants BIO 150\*** Fall 2012–Fall 2013*San Francisco State University*

- Guided students through lab experiments and field trips
- Created lectures to pair with lab activities
- Provided instruction and support for fellow teaching assistants

**Evolution BIO 141** Fall 2008–Spring 2009*University of California, Merced*

- Served as a student curriculum design coordinator and learning assistant
- Co-designed and implemented active learning
- Assessed student performance data with course instructors to improve teaching

**FACILITATED PROFESSIONAL DEVELOPMENT****Introduction to Education Research** Summer 2022*University of California, Merced*

- Taught faculty new to education research how to apply for IRB approval, how to craft meaningful questions to study teaching strategies, and how to collect education research data

**Advanced Pedagogy (Pedagogy Program Level 3)** Spring 2022*University of California, Merced*

- Prepared 34 graduate students and postdocs for their future teaching careers
- Customized the program to meet each participant's specific needs
- Mentored each participant through goal setting and check-ins
- Covered topics in course design, student-centered syllabi, soliciting feedback from students, teaching large classes, flipping classroom, instructor presence, intersectional pedagogy and cultural wealth, and improvisation

**National Summer Institute on Scientific Teaching** Summer 2021, 2022*University of California, Merced*

- Established safe, constructive, and positive working spaces for faculty groups
- Managed group dynamics amongst different, strong personalities
- Guided participants toward a common microteaching goal

**Course Design Institute** 2021, 2022*University of California, Merced*

- Advised faculty wishing to modify their courses to be more student-centered

- Provided learning theories and research to justify teaching strategies
- Served as a mentor and pedagogy coach to STEM-based cohort

**Principles of Pedagogy (Pedagogy Program Level 2)** Fall 2021, 2022

*University of California*

- Facilitated 154 graduate students and postdocs in discussing and applying evidence-based principles of teaching to interdisciplinary scenarios
- Encouraged peer-learning through sharing lived experiences and examples

**Graduate Student TA Orientation** 2020–2022

*University of California*

- Served as first point of discussion for equity, diversity, and inclusion for graduate student at UC Merced
- Introduced students to equity-minded teaching and strategies to help students feel valued, seen, and heard in class
- Inform students of campus resources and trainings available to them
- Provide students with student-centered microteaching lesson
- Monitored and reported student progress through Canvas

**Faculty Institute on Emergency Remote Teaching** 2020

*University of California, Merced*

- Supported faculty with best practices for student-centered online teaching
- Discussed Backward Design approach to structuring online class
- Trained faculty on shifting courses to Canvas and Zoom environments

**Emergency Remote Learning Transition for GTAs** 2020

*University of California, Merced*

- Provided 112 graduate students with a training in managing courses on Canvas and facilitating classes and office hours over Zoom
- Consulted for graduate teaching assistants during remote transition

**FUNDING & AWARDS**

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| 2022 | CV-RISER: Central Valley Region Interdisciplinary Science Education Research Symposium; NSF Proposal 2207863 (\$45,000) |
| 2021 | UC Merced QSB Remote Teaching and Research Fellowship (\$250)   |
| 2020 | UC Merced Academic Senate Faculty Research Grant; Sexton & Frank (\$10,000)   |
| 2020 | UC Merced QSB Dissertation Incentive Award (\$580)  |
| 2020 | UC Merced Outstanding Teacher Award (\$1000)  |
| 2020 | UC President's Award for Outstanding Student Leadership (RadioBio)  |
| 2019 | Sonoma County Mycological Society Graduate Scholarship (\$1,500)  |
| 2019 | Northern California Botanist Research Scholarship (\$1,000)   |
| 2019 | Southern California Edison Fellowship (\$13,065)  |
| 2018 | Sonoma County Mycological Society Graduate Scholarship (\$2,500)  |
| 2018 | Mycological Society of America Translational Research Award (\$1,250)   |
| 2018 | California Native Plant Society Bristlecone Chapter Mary DeDecker (\$1,000)   |
| 2019 | UC Merced Outstanding Graduate Student Award  |
| 2019 | Northern California Botanist Symposium Poster Competition Award (\$200)   |
| 2016 | UC Merced Quantitative and Systems Biology Recruitment Award (\$20,106)   |
| 2016 | UC Merced School of Natural Sciences Dean's Relocation Award (\$400)  |
| 2015 | Sonoma County Mycological Association Graduate Scholarship (\$2,500)  |

- 2015 Mushrooms of Madagascar *Kickstarter* Campaign (\$7,682)  
 2014 Mycological Society of San Francisco Graduate Scholarship (\$1,000)  
 2014 SFSU College of Science and Engineering Scholarship (\$2,500)  
 2013 Robert W. Maxwell Scholarship (\$4,000)  
 2009 UC Merced Distinguished Leadership Award  
 2007 UC Merced Distinguished Student Volunteer Award

### **INVITED TALKS, PRESENTATIONS, & POSTERS**

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- 2022 Shay, J.E. "Improv to Reimagine Educational Development". Workshop for educational developers. *Professional and Organizational Development Network*, Seattle, WA
- 2021 Shay, J.E. "Marvelous Mimulus Microbiomes", *Ecological Genetics Lecture*, UC Merced, Merced, California (Invited talk)
- 2020 Shay, J.E., Frank, A.C., Sexton, J.P. "The Monkeyflower Microbiome: Insights from Community Shifts in Response to Drought" *Ecological Society of America*
- 2020 Shay, J.E. "Symbiosis and Climate Change". *Biology Seminar*, Invited Talk, San Francisco State University, San Francisco, CA (Invited talk)
- 2020 Garcia-Ojeda, M., Shay, J.E., Zimmerman, J., Schuchardt, A., Durazo, A. "Underrepresented women students close the achievement gap in a flipped class delivered in a TEAL classroom" *Society for the Advancement of Biology Education Research*, UC Irvine, CA
- 2020 Shay, J.E., Brooks, L., Kaze, M., Frank, C.A., Sexton, J.P., Siström, M. "Endophyte communities in the cut-leaf monkeyflower (*Erythranthe laciniata*) respond differently to drought conditions above and belowground" *Northern California Botanist Symposium*, Chico, California. (Invited talk & session Chair)
- 2019 Shay, J.E. "Fungus Among Us", *Camp Trip Music Festival*, Weldon, CA
- 2019 Shay, J.E., Brooks, L., Kaze, M., Frank, C.A., Sexton, J.P., Siström, M. "Endophytes shift in response to drought in monkeyflowers (*Erythranthe laciniata*) from native soil" *Mycological Society of America, Minneapolis, MN*
- 2019 Shay, J.E., Brooks, L., Kaze, M., Frank, C.A., Sexton, J.P., Siström, M. "Endophytes shift in response to drought in monkeyflowers (*Erythranthe laciniata*) from native soil" *Symbiosis*, Yosemite National Park, CA
- 2019 Shay, J.E., Brooks, L., Kaze, M., Frank, C.A., Sexton, J.P., Siström, M. "Endophytes shift in response to drought in monkeyflowers (*Erythranthe laciniata*) from native soil" *Northern California Botanists Symposium, Chico, CA* (Poster)
- 2018 Shay, J.E., Pennington, L., Toews, D., Sexton, J.P. "Climate adaptation and fitness variation is greatest near the leading edge of a species range" *Climate Change: Ranges and Phenology, Ecological Society of America, New Orleans, LA*
- 2017 Shay, J.E., Newman, D.S., Grace, C., Perry, B.A., Desjardins, D. "Biodiversity and Phylogeny of *Marasmius* (Basidiomycota, Agaricales) from Madagascar" *Marin County Mycological Society*, San Francisco, CA (Invited talk)
- 2017 Shay, J.E., Newman, D.S., Grace, C., Perry, B.A., Desjardins, D. "Biodiversity and Phylogeny of *Marasmius* (Basidiomycota, Agaricales) from Madagascar" *Mycological Society of San Francisco*, San Francisco, CA (Invited talk)

- 2017 Shay, J.E., Newman, D.S., Grace, C., Perry, B.A., Desjardins, D. “Biodiversity and Phylogeny of *Marasmius* (Basidiomycota, Agaricales) from Madagascar” *Fungal Genetics, Asilomar, Pacific Grove, CA* (Poster)
- 2016 Shay, J.E. “Do microbiomes influence host evolution?” Quantitative and Systems Biology Topics Final Project *University of California Merced*
- 2016 Shay, J.E., Newman, D.S., Grace, C., Perry, B.A., Desjardins, D. “Biodiversity and Phylogeny of *Marasmius* (Basidiomycota, Agaricales) from Madagascar” M.Sc. Thesis Defense. *San Francisco State University*
- 2015 Shay, J.E., Newman, D.S., Desjardin, D. “A preliminary monograph of *Marasmius* (Basidiomycota, Agaricales) from Madagascar.” *Botany 2015, Edmonton, Alberta, Canada* (Poster)
- 2015 Shay, J.E. “A Mushroom Adventure Collecting in Madagascar.” *Mycological Society of San Francisco, San Francisco, CA* (Invited talk)
- 2013 Shay, J.E. “Termitomyces and Macrotermitinae: Masters of Efficiency, an Exploration of Fungal Symbioses.” *San Francisco State University*
- 2013 Shay, J.E. “The Understory Story: Mycoheterotrophy of Ericaceae.” *San Francisco State University*

## **INSTITUTIONAL & PROFESSIONAL SERVICE**

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**Chair of University of California Teaching Center TA/GSI Group** 2022–present  
*University of California*

- Organize teaching and learning center staff across the 10 University of California campuses to discuss, develop, and promote effective and inclusive professional development for graduate student and postdoctoral instructors

**Session Chair American Educational Research Association Conference** 2022  
*San Diego State University*

- Title: Student Narratives within STEM: Context, Learning, and Sense-Making

**COVID-19 Emergency Remote Learning Transition Training for GTAs** 2020  
*University of California, Merced*

- Developed and lead emergency remote training sessions to assist fellow graduate teaching assistants as they transition their classes to online learning
- Coordinated with campus resources to schedule and advertise trainings
- Taught 30 graduate students and 3 faculty in six different hour-long sessions
- Interviewed about increasing engagement in emergency remote learning  
<https://cetl.ucmerced.edu/node/14081>

**Session Chair for Northern California Botanist Symposium 2020 Meeting** 2020  
*California State University, Chico*

- Invited by board members to chair the session
- Coordinated a diverse panel of for the *Plant-Biotic Interactions* Session
- Established a growing interest in microbe-associated plant interactions

**Graduate Student Representative for Quantitative and Systems Biology** 2018–2020  
*University of California, Merced*

- Served on the Quantitative and Systems Biology (QSB) Council to discuss affairs relevant to biology graduate students
- Served as a liaison between the QSB Council and Graduate Association



- Served as a point of contact for all graduate students in the largest program at UC Merced to voice their concerns and suggestions

**CBEST Summer Bridge Program for Elementary School** Summer 2019

*University of California, Merced*

- Provided accessible science education to a traditionally underserved community of the Central Valley of California
- Developed an interactive discussing about plant biology for 3<sup>rd</sup> and 4<sup>th</sup> graders
- Worked closely with undergraduate interns to facilitate the program

**UC Merced W-STEM** 2016–2018

*University of California, Merced*

- Mentor and mentee for women of color in STEM
- Established a culture of community, generosity, and compassion among peers
- Advised undergraduate mentees to develop sense of belonging, productivity skills, and motivation to pursue STEM careers

**University Committees and Other Alumni Services**

- Search Committee for the Vice Provost and Dean of Graduate Division 2022
- Research Week Planning Committee 2017–2020
- Invited reviewer for Plant Systematics and Evolution 2019
- Search Committee for the Executive Vice Chancellor and Provost 2018
- Search Committee for Dean of School of Natural Sciences 2017
- Review Board for the Office of the Vice Chancellor of Student Services 2017
- Vice President UC Merced alumni Association Board 2016–2018
- Director UC Merced Alumni Association Board 2012–2018, 2021–*present*

**PROFESSIONAL DEVELOPMENT & TECHNICAL SKILLS**

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- 2022 Inclusive STEM Teaching Project
- 2022 UC Merced Managing Implicit Bias
- 2020 UC Merced Graduate Division Dissertation Boot Camp
- 2019 Regional Summer Institute on Scientific Teaching, UC San Diego
- 2019 Collaborative Institutional Training Initiative Social-Behavioral-Educational
- 2019 Illumina Metagenomic Sequencing Workshop, UC Merced
- 2018 Data Carpentry Workshop, UC Merced
- 2018 Introduction to Computation Workshop, UC Merced
- 2018 Botanical Illustration Workshop, California Native Plant Society Meeting
- 2017 NSF Interdisciplinary Computational Graduate Education Program, UC Merced
- 2015 Science Education Partnership and Assessment Laboratory Institute, SFSU
- 2015 Macro nature photography summer course, SFSU Sierra Nevada Field Campus
- 2014 John Muir Laws workshop on Nature Journaling, San Francisco
- 2014 Fungi of Sierra Nevada summer course, SFSU Sierra Nevada Field Campus

**SYNERGISTIC EXPERIENCES**

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**RadioBio Podcast** 2017–2022

*University of California, Merced*

- Founded RadioBio, a graduate student-led biology-themed podcast that discusses biology from molecules to ecosystems

- Developed and executed all events associated with the RadioBio podcast including community outreach events, science showcases, and art exhibitions
  - Co-invited diverse speakers to UC Merced with Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)
  - Nationally recognized science podcast by NSF's Science360
- Teaching Intern, Center for Engaged Teaching and Learning** 2017–2018  
*University of California, Merced*
- Encouraged the university community to adopt active teaching strategies
  - Participated in teacher training workshops to enhance my practice
  - Lectured to peers on teaching strategies for large classrooms
- Vice President and Chair of Annual Fungus Fair** 2014–2017  
*Mycological Society of San Francisco, San Francisco, California*
- Ran a 2-day education fair with 3 committees and over 2500 guests
  - Invited diverse researchers and fungal experts to the speaker series
  - Served as a point of contact for all divisions
- Delta Epsilon Mu: Founder & Vice President** 2006–2009  
*University of California, Merced*
- Established UC Merced's first co-ed pre-health professional fraternity
  - Served as the founding executive committee
  - Maintained alumni relations with current organization
- University Women of Merced Network: Founder & President** 2006–2009  
*University of California, Merced*
- Offered community and support women's needs at UC Merced
  - Directed and performed *The Vagina Monologues* annually to raise money for local women's shelter and raise awareness of women's issues
- Counselor and Wrangler** Summers 2006–2009, 2012  
*Cheley Colorado Camps, Estes Park, Colorado*
- Led 12 campers in overnight horse expeditions in the Colorado Rockies
  - Planned and managed overnight logistics for campers and horses
  - Communicated critical safety expectations for expeditions
- Acting and Stage Presence**
- Performed in, created, or directed over a dozen plays and musicals 1999–2016
  - Induction to the International Thespian Society 2004
  - Meisner Technique Acting Classes 2002–2003  
*The Ruskin School of Acting, Santa Monica, California*

## **CURRENT PROFESSIONAL MEMBERSHIPS**

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2022 Professional and Organizational Development Network  
 2019 Society for the Advancement of Biology Education Research  
 2018 Ecological Society of America  
 2015 Mycological Society of America  
 2013 California Native Plant Society

## **RESEARCH INTERESTS**

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Biodiversity | Fungi | Symbiosis | Ecology | Evolution | Taxonomy | Systematics  
 Fieldwork | Endophytes | Climate Change | Microbiology | Pedagogy | STEM Education