Amy S Rhoad

Curriculum Vitae

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Education

- **Ph.D.** Animal and Veterinary Sciences. Department of Veterinary Sciences. Minor in Quantitative Research Methods. Department of Education. University of Wyoming. December 2020.
- B.S. Molecular Biology/Environmental and Natural Resources. University of Wyoming. May 2014
- **B.S.** Microbiology. University of Wyoming. May 2014

Teaching Experience

•		ship & Scholarship Coordinator. Academic and Student	Aug 2021-present
	-	ms, College of Agriculture and Natural Resources. University	
	of Wyo	8	
	0	Oversee AGRI-4970 Internship course for general college internship.	
	0	Designed guidelines and syllabus for receiving college credit for external internships	
	0	Provide guidance and mentoring to students on career services including job search and assistance with application materials	
	0	Design and teach the Agricultural Communications Senior Capstone Project Course	
	0	Responsible for the instructional design for new Ranch Management and Agricultural Leadership Seminar Series.	
	0	Award and college scholarships, track application deadlines, manage awards through online systems	
•		ate Teaching Assistant for Dept. of Veterinary Sciences ate Student Seminar in Bioinformatics. University of Wyoming	Aug 2020-Dec 2020
	0	Taught 8+ graduate students enrolled in course. Seminar was also audited by several faculty members	
	0	Assisted in course design and implementation with a focus on bioinformatic programs and their uses in biological science research	
	0	Helped students both during and outside of course time to navigate the various bioinformatic activities and trouble-shoot problems as the arose.	
•	Tempo	prary Academic Lecturer of Medical Microbiology. Dept. of	Jan 2020-May 2020
	Molecu	ılar Biology. University of Wyoming	
	0	Taught a lecture section of 100+ students in Medical	
		Microbiology	
	0	Designed lecture material to meet topic requirements designated	
		by Molecular Biology Department	
	0	Implemented active learning in the form of group discussions, in-	
		class activities and case study assignments.	
	0	Emphasized scientific literacy and communication through the	
		implementation of a group literature review poster presentation	

•		ctor of record/Lab coordinator for General/Medical biology Labs. Program in Microbiology. University of	Aug 2018-May 2020
	•• yo in	Oversaw the instruction of 4-7 lab sections per semester with over 200 students	
	0	Coordinated and mentored team of 8-16 undergraduate teaching assistants including weekly meeting to discuss upcoming content and best practices in teaching	
	0	Mentored and trained graduate teaching assistants to supervise individual sections	
	0	Adapted past curriculum and designed new active learning strategies to emphasize interpretation of data collected from experiments	
	0	Ensured laboratory safety protocol were taught and enforced by all graduate supervisors, teaching assistants, and students	
	0	Designed and oversaw lab content on University's learning management system	
•	Microl Wyom ○	ate Assistant Laboratory Supervisor for General/Medical biology Labs. Program in Microbiology. University of ing Directly supervised and instructed 1-3 sections of undergraduate students Gave content lectures, taught standard microbiology laboratory techniques to students, and emphasize student learning of data interpretation and application to lecture and real-world content Assisted in designing lectures and active learning strategies by	Sept 2016-Aug 2018
	0	designing assessment rubrics and introducing new activities including group discussions and check-ins Assisted in coordinating and mentoring a team of 8-16 undergraduate teaching assistants	
•	Microl	prary Academic Lecturer/ Lab Supervisor for General/Medical piology Labs. Program in Microbiology. University of	Jan 2016-May 2016
	Wyom O	Directly supervised and instructed 2 sections of undergraduate students	
	0	Gave content lectures, taught standard microbiology laboratory techniques to students, and emphasize student learning of data interpretation and application to lecture and real-world content	
	0	Assisted with set-up for all student experiments and ensured media, culture and supplies were stocked and ready prior to the	

start of the sections

	Teaching Assistant for General/Medical Microbiology Labs. Programin Microbiology. University of WyomingoAssisted in instruction of 1 lab section of undergraduate studentsoShared in the responsibility of giving content lectures to studentsoAssisted in answering student question and helped students	Jan 2012-May 2014
	 Assisted in answering student question and helped students understand experiment procedures and data interpretation 	
•	 Teaching Assistant for Chemistry 1020. Dept. of Chemistry. University of Wyoming. Instructed 1 lab section of undergraduate students Helped students conduct experiments and follow lab manual procedure 	Aug 2012-Dec 2012
Researc	h Experience	
	 Dissertation research in Animal and Veterinary Sciences. University of Wyoming. Designed an experimental set-up using a mouse model to evaluate the host microbiome during a Toxoplasmosis infection Used multiple metrics to analyze the disease severity of Toxoplasmosis in mice Extracted DNA from fecal samples to evaluated microbiome Performed bioinformatic analyses using Qiime2 and on sequenced data from fecal samples 	Aug 2016-Present
	 Educational Research 5640 Intro to Qualitative Research Course Project. University of Wyoming. Designed and implemented a qualitative research study on understanding the experiences of an undergraduate teaching assistant in an active learning lab setting. 	Jan 2018-May 2018
	 Educational Research 5600 Descriptive Statistics Course Project . University of Wyoming. Designed and implemented a survey on student perceptions of vertical course alignment in microbiology labs Analyzed data of student responses to the various metrics used to measure student competence in microbiology labs 	Jan 2017-May 2017
	 Molecular Biology 4050 Microbiology Capstone Course Project. University of Wyoming. Orked to determine the impact different soil/fertilizer combinations had on nitrogen fixing bacteria in local community garden plots. 	Jan 2013-May 2013
•	NSF Research Experience for Undergraduates student project. Dept. of Zoology/Physiology. University of Wyoming. Conducted a small scale experiment on how different aquatic microbial communities uptake DOC in response to changes in DOC source material.	May 2012-Aug 2012

•	 Wyoming EPSCoR Undergraduate research project. Dept. of Zoology/Physiology. University of Wyoming Conducted a small scale experiment on how additions of algal material, labile dissolved organic carbon (DOC) and phosphorus and nitrogen impacted the amount of river DOC taken up by river microbial communities 	May 2011-Dec 2011
Fellows	hips, Internships and Workshops	
•	 LAMP Educators Learning Community. University of Wyoming "Leaving the Light On": a collaborative group study of student resistance to learning and ways to overcome this resistance Designed and independent project to understand if case studies are effective in promoting critical thinking and application of content knowledge 	March 2020-Dec 2021
•	Education Research Supervised Internship. College of Education.University of WyomingoSemester long internshipCo-taught the online course Intro to Research	Aug 2018-Dec 2018
•	 Science Initiative Summer Institute Fellow. University of Wyoming Year long immersive faculty development program Learn to implement active learning strategies in science curricula 	June 2017-May 2018
•	 Bioinformatics Intensive Internship. National Center for Genomic Resources and New Mexico INBRE Two week long intensive internship Learn applications and uses of bioinformatic tools in biological applications 	June 19-30, 2017
Work E	xperience	
•	COVID Laboratory Technician II. Wyoming State Vet Lab. University of WY.	Feb 2021-June 2021
•	Aquatic Invasive Species Technician. Wyoming Game and Fish Department. Laramie, WY	April 2014-Sept 2016
•	Substitute Teacher. Albany County School District. Laramie, WY	Oct 2014-May 2016
•	Student Supervisor. Campus Recreation. University of Wyoming. Laramie, WY	Sept 2013-June 2014
•	Facility Employee. Campus Recreation. University of Wyoming. Laramie, WY	March 2010-Sept 2013
•	Planning Intern. Grand Teton National Park. Moose, WY	July-Aug 2013
•	Lab/Field Technician. Dept. of Zoology and Physiology. University of Wyoming. Laramie, WY	May 2011-May 2013

Publications/Presentations

• Session leader. "Using Case Studies to Teach Application and Assess Critical Thinking" Original Lilly Conference on College Teaching. Miami University. Oxford, Ohio.	Nov 2021
Graduate Poster Presentation and Student Speaker. NIH Idea Western Regional Conference. Las Vegas, NV	Oct 2019
Graduate Poster Presentation. INBRE Annual Conference. University of Wyoming. Laramie, WY	April 2019
Graduate Poster Presentation. Annual New Mexico BioInformatics, Science and Technology (NMBIST) Integrative Omics Symposium. Santa Fe, NM	March 2019
• MOLB/MICR 2021 - Lab Notebook (2nd Edition). University of Wyoming Open Education Resources	Jan 2019
• MOLB/MICR 2021 - Lab Notebook (1st Edition). University of Wyoming Open Education Resources	Aug 2018
• Microbiology Capstone Poster Presentation. University of Wyoming. Laramie, WY	May 2013
• Student Presenter at the annual Society for Freshwater Science. Louisville, KY	May 2012
Undergraduate Research Day. University of Wyoming. Laramie, WY	April 2012
General Microbiology Poster Presentation. University of Wyoming. Laramie, WY	Dec 2010

Awards and Honors

•	Y Cross Ranch Endowment 2018/19 Graduate Student Tuition & Fee Assistance Program Recipient	Fall 2018
•	University of Wyoming Alternative Textbook OER grant	Summer 2018
•	Mary Mead Graduate Scholarship for Women in Agriculture Brand of Excellence Scholarship 2017	Fall 2017
•	Outstanding Building Supervisor for the year 2013-2014. Campus Recreations	May 2014
•	Amanda and Oscar W. Schmale Brand of Excellence Scholarship 2013	Fall 2013
•	Recognized for contributions to Volunteer-In-Parks Program. NPS Dept of Interior	Summer 2013
•	Research Experience for Undergraduates fellowship. NSF	Summer 2012
•	Undergraduate Travel Award. Society for Freshwater Science.	Spring 2012
•	Wyoming EPSCoR Recipient	Summer 2011, Fall 2011

•	Dean's List. University of Wyoming	Fall 2010, 2011, 2012, 2013 Spring 2013
•	President's list. University of Wyoming	Fall 2009, Spring 2011
•	Participant in Keith and Thyra Thomson Honors Convocation for Freshman Honor Roll.	Spring 2010

Professional Service

٠	Advisor to Ag Ambassadors Student Organization	Nov 2021-present
•	Student Ambassador. Advance Research Computing Center.	Sept 2019-Dec 2019
•	Paraprofessional. LJHS Nordic Skiing. Albany County School District	Dec- Feb 2015
•	Peer Mentor for Microbiology Capstone Course. Dept. of Microbiology. University of Wyoming.	Jan- May 2014
•	SI leader for General Microbiology. Dept. of Microbiology. University of Wyoming	Aug - Dec 2013

Volunteer

Volunteer for Wyoming Area Health Education Center Summer Camp	June 2017, June 2018
• Volunteer for University of Wyoming Women in STEM	May 2017, May 2018, May 2019
Volunteer for Kids Fishing Day	June 2013
• Volunteer for Rebuilding Hope in New Orleans in association with Habitat for Humanity.	Jan 2012
 Trip Leader assistant to Andros Island, Bahamas for environmental and educational study 	June 2010, 2011, 2012
Volunteer for National Public Lands Day	2006, 2007, 2008
Volunteer for Audubon Christmas Bird Count	2006, 2007, 2008