University of Georgia ♦ Biological Sciences Building room 214B♦ Athens, GA 30602-2605 Phone: 706-542-6184♦ E-Mail: jgrainy@uga.edu

Education

Ph.D.	Microbiology	2013-2019
	University of Georgia, Athens, GA	
B.S.	Biology	2009-2013
	Waynesburg University, Waynesburg, PA	
Teacl	ning Experience	
• Lect	urer of Microbiology, University of Georgia	2020-present
He	alth Care Microbiology (MIBO2500)	
Int	roductory Microbiology Lab II (MIBO3510L)	
Int	roductory Microbiology (MIBO3500)	
• Assi	stant Professor of Biology, Southern Utah University	2019-2020
Ge Ge	meral Biology I lecture (BIOL 1610) meral Biology I lab (BIOL 1615) metics lecture (BIOL 3060) metics lab (BIOL 3065)	
	luate Student, University of Georgia	2016-2018
Ins	structor of Record for Health Care Microbiology (MIBO2500) Spring 2018	
Te	aching Assistant for Health Care Microbiology Laboratory (MIBO2500L) Summer 2016	
Te	aching Assistant for Introduction to Microbiology (MIBO3000) Spring 2016	
Ment	oring and Supervising	
• Intro	oductory Microbiology Lab II Teaching Assistants	2020-present
	pervised and mentored 13 graduate Teaching Assistants and 5 Microbiology Idergraduate Lab Assistants	
• Intro	oduction to Microbiology Teaching Assistants	2021-present
	pervised and mentored 6 graduate Teaching Assistants and 3 undergraduate Peer arning Assistants	
• Heal	th Care Microbiology Teaching Assistants	2020-present
	pervised and mentored 7 graduate Teaching Assistants and 42 undergraduate crobiology Peer Assistants	

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Research Experience

Southern Utah University, Assistant Professor of Biology	2019-2020
Supervised a Course-Based Undergraduate Research Experience for	
undergraduate students enrolled in genetics lab	
University of Georgia	
Graduate research assistant	2013-2019
Dr. Michael Terns, Dept. of Biochemistry and Molecular Biology	
Research focus: Understanding molecular mechanisms governing	
the adaptation stage of CRISPR-Cas immune systems	
Research Experience for Undergraduates program	
Dr. Michael Terns, Department of Biochemistry and Molecular Biology	Summer 2012
University of North Dakota	0 0011
Research Experience for Undergraduates program	Summer 2011
Dr. Keith Henry, Dept. of Pharmacology, Physiology & Therapeutics	
Publications	
• Robinson S; Dolan E; Burd A; Call J; Chen C; Edwards G; Eubig P; Grainy J ; Jensen J; Wells K (2023) <i>Promoting student success by expanding research access through</i> <i>Course-Based Undergraduate Research Experiences (CURES).</i> White Paper.	2023
• Grainy J. (2019) Molecular mechanisms of DNA uptake into CRISPR-Cas loci. Doctoral dissertation, University of Georgia, United States, 2019).	2019
• Grainy J, Garrett S, Graveley BR, Terns MP. (2019) CRISPR repeat sequences and relative spacing specify DNA integration by Pyrococcus furiosus Cas1 and Cas2. Nucleic Acids Research.	2019
 Huang G, Ulrich P, Storey M, Johnson D, Tischer J, Tovar J, Moreno S, Orlando R, Docampo R. (2014) Proteomic analysis of the acidocalcisome, an organelle conserved from bacteria to human cells. PLOS Pathogens 	2014
Presentations	
• Grainy, J., Rodriguez Garcia, C., & Ottesen, E. Water reservoirs for ESBL-	2023
Enterobacteriaceae: a laboratory module to increase environmental awareness of	

antibiotic resistance through extended-spectrum beta-lactamases (ESBLs). Poster presented at the meeting of American Society for Microbiology Conference for

• Grainy, J, Walker J. Incorporating Student Voice Into Program and Course Redesign.

Presentation at the International Teaching and Learning Cooperative Network Lilly

2022

Undergraduate Educators. 2023 November 17-19; Phoenix, AZ

Conference. 2022 August 7-10; Asheville, NC.

• Grainy, J. Publishing Biology Classroom Activities on CourseSource. Presentation at the SUU Festival of Excellence, 2020 April; Cedar City, UT.	2020
• Grainy J, Walker J. Crafting Concept Inventories to Assess Student Misconceptions and Prior Knowledge. Round table presentation at the University System of Georgia Teaching and Learning Conference. 2018 April 4-6; Athens, GA.	2018
 Grainy J, Garrett S, Graveley B, Terns M. Investigating spacer integration with Cas1 and Cas2 from Pyrococcus furiosus. Poster presented at the International CRISPR Meeting. 2017 June 8-10; Big Sky, MT. 	2017
 Grainy J, Walker J. Assessment of Misconceptions and Prior Knowledge in a Microbiology Course Using a Concept Inventory. Poster presented at the American Society for Microbiology Conference for Undergraduate Educators. 2017 July 27-30; Denver, CO. 	2017
 Grainy J, Hu J, Shiimori M, Terns R, Terns M. Evaluating the roles of Cas4 proteins in CRISPR-Cas. Poster presented at The University of Georgia Biochemistry and Molecular Biology Conference. 2016 May 15-16; Helen, GA. 	2016
• Tischer J, Majumdar S, Hale C, Lyles T, Terns M, Terns R. <i>Studying molecular organization of a P. furiosus CRISPR-Cas complex</i> . Poster session presented at: Research Experience for Undergraduates at The University of Georgia. 2012 Jul 26; Athens, GA.	2012
• Tischer J , Lamb P, Zoller I, Newman AH, Henry LK. <i>Generation and analysis of site-</i> <i>directed mutants to identify a second citalopram binding site on the human serotonin</i> <i>transporter</i> . Poster session presented at: Research Experience for Undergraduates at the University of North Dakota; 2011 Aug 5; Grand Forks, ND.	2011

Awards, Fellowships, and Grants

Active Learning Summer Institute	2023
Teaching Academy Early Career Fellows Program	2021-2022
• Thank-A-Teacher recipient x5	2020-2023
• Faculty Development Support Fund recipient to attend the SABER-West conference	2020
• Excellence in Teaching Award from the UGA Center for Teaching and Learning	2019
• Professional development grant from the Microbiology Graduate Student Association to attend the University System of Georgia Teaching and Learning Conference	2018
Outstanding Teaching Assistant Award from the UGA Graduate School	2017
 Carlock award for best student presentation at the Association for College and University Biology Educators Annual Meeting 	2017

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 UGA Graduate School Travel Grant to attend the American Society for Microbiology Conference for Undergraduate Educators 	2017
• UGA Graduate School Travel Grant to attend the International CRISPR meeting	2017
 Women in Science Travel Grant awarded for Global Women in STEM Leadership Summit 	2016 and 2017
• Scholarship of Teaching and Learning grant received from the Center for the Integration of Research, Teaching, and Learning for teaching as research project	2016
• First place in the Three Minute Thesis competition at UGA	2016
National Science Foundation Graduate Research Fellowship Honorable Mention	2015
PhD Scholars of Excellence Fellowship, UGA	2014
• Gamma Sigma Epsilon student of the year for Waynesburg University chapter	2013
• Outstanding senior award in the department of biology, Waynesburg University	2013
Community service award at graduation, Ross Corners Christian Academy	2009
Baush and Lomb science award, Ross Corners Christian Academy	2009
Professional Development	
University of Georgia, Lecturer of Microbiology	2020-present
Active Learning Summer Institute	2023
American Society for Microbiology Conference for Undergraduate Educators	2023
Career Everywhere Faculty Program	2023
Faculty Learning Community: NTT-faculty	2020-present

- Faculty Learning Community: Course Based Undergraduate Research
 DeLTA Dossier Learning Community member
- 2022-2023 • Active Learning Summit at UGA 2023 • Student Engagement: From the Classroom to Custom Content hosted by TopHat 2022 · Learning and Relationships in (and Beyond) our Courses Workshop 2022 • Relationship Rich Education keynote with Dr. Peter Felton 2022 2022 • International Teaching Learning Cooperative Network Lilly Conference. Asheville, NC • Teaching Academy Early Careers Fellows Program 2021-2022 • "Preparing to Pivot" online course through the Center for Teaching and Learning 2020 • Diversity and Inclusion o It's Really NOT All in Your Head: Understanding Mental Health Disabilities 2021 Religious Diversity: Supporting and Inclusive Classroom and Community 2021 0 • Training and Development • Faculty Search Committee Training 2023

2022

2022-2023

	0	National Center for Faculty Development & Diversity webinar: Creating a	2021
		Culture of Support for All Faculty	2021
	0	Leadership Workshop: Intro to Facilitation	2020
	0	Taking Mentoring to the Next Level	
	0	Professional Development Circle: Learning to Work, Live, and Lead Through Change and Uncertainty	
• F	aculty	orientation	2020
	0	How Learning Works: Engaging your students in Active Learning.	
	0	Gathering (and Responding to) Feedback on Your Teaching	
	0	Policies for Pedagogy: Teaching @ UGA	
	0	Experiential Learning in and out of the UGA Classroom.	
	0	Accessible Teaching.	
	0	Planning & Time Management for the Academic Life	
Soi	ıthern	ı Utah University, Assistant Professor of Biology	2019-2020
•	New	Faculty learning community Fall 2019 and Spring 2020	
•	Supp	orting Diverse Needs through Inclusive Design and Learner Preference – workshop	
•	How	do I Convince Myself (& Others) That I am an Effective Teacher – workshop	
•		ded the Society for the Advancement of Biology Education Research (SABER)-West ann rence in Irvine, California January 2020.	ual
•		esented the SUU biology department at the Institute of Civic Prompts in the Major in Los les, California. January 2020.	1
Un	iversit	y of Georgia, Graduate Student	2013-2019
<u>Gr</u>	aduate	e courses:	
•	GRSC	C7770: Graduate Seminar in Teaching Course	
•	GRSC	27870S: Service Learning Course Design	
•	EDHI	9040: Using Technology in the Classroom	
•	An In	troduction to Evidence-Based Undergraduate STEM Teaching online course	
•	Adva	ncing Learning Through Evidence-Based STEM Teaching online course	
Un	iversit	y of Georgia, Graduate Student	2013-2019
Un	iversit	y of Georgia Center for Teaching and Learning:	
•	Activ	e Learning in STEM Courses	
•	Facili	tating Learning in STEM	
•	Desig	ning Rubrics for Classroom Assessment	

- Increasing Students' Critical Thinking About Selection of Research Sources ٠
- Best Practices in Quantitative Data Collection: Designing Surveys Students Want to Take •

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- Top 10 Strategies for Transitioning from TA to Faculty
- Planning, Presenting, and Publishing Classroom Research
- Best Practices in Analyzing and Displaying Quantitative Data
- Writing up SoTL Research for the Non-Education Researcher
- Understanding Human Subjects Research and the Institutional Research Board

Center for the Integration of Research, Teaching, and Learning:

- The Academic Job Search
- Integrating Effective Teaching & Assessment Practices in Biology Lab Courses Through Case Studies
- Exploring Critical and/or Feminist STEM Teaching and Research
- Women in STEM Careers Panel
- Preparing for and Navigating the Job Market
- The Status of Women Scientists
- Writing a Teaching Philosophy Statement

Future Faculty Fellows Program:

- Crafted teaching philosophy, diversity statement, and other components of a teaching portfolio
- · Conducted mid-semester formative evaluations for graduate instructors
- Prepared and facilitated a break-out session for TA orientation titled "Running a Web Lab"
- Prepared and facilitated a workshop for the UGA Spring Teaching Symposium titled "How to Build a Teaching Portfolio When You Aren't the Teacher"

Certificate in Diversity and Inclusion:

- Self-awareness and Reflective Practice for Diversity and Inclusion
- Institutional Diversity in a Digital Transformation Era
- Got your six Supporting UGA's Student Veterans
- An LGBT Primer Creating an Inclusive Community
- Diversity Through Dance
- Diversity at UGA: Beyond the Numbers
- Safe Space Training

Interdisciplinary Certificate in University Teaching:

- Taught five course sections as instructor of record, TA, or LA
- Completed nine credit hours of teaching development courses
- Teaching project: Created a concept inventory for MIBO3500
- Scholarship of Teaching: Presented teaching project at five peer-reviewed professional meetings
- Submitted a twelve-page teaching portfolio to the Graduate School Portfolio Program

Scientists Engaged in Education Research:

• Survey Construction and Analysis workshop

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- Scholarship of Teaching and Learning workshop by guest speaker Nancy Chick
- Rubric Creation workshop by guest speaker Stephanie Gardner
- Persistent Student Tendencies to Memorize Versus Abstract

University of Georgia Graduate School:

- Writing a Literature Review
- Finding the Sources to Build a Literature Review
- Finishing the Literature Review: Overcoming Obstacles
- Introduction to the Scholarship of Teaching and Learning Retreat
- Graduate Portfolio in Community Engagement Workshop
- Writing Grants: How to Identify, Target, and Sell Your Research to Funding Agencies
- National Science Foundation Graduate Research Fellows Program Workshop

Affiliations/Memberships

American Society of Microbiology	2017-2022
• Scientists Engaged in Education Research, UGA	2016-present
• Women in Science, UGA	2014-present
Graduate Students and Postdocs in Science, UGA	2013-2019
Waynesburg University Honors Academy	2009-2013
Gamma Sigma Epsilon (National Chemistry Honor Society)	2011-2013

Service

Facilitator for the Non-Tenure Track Faculty Learning Community	
Microbiology Undergraduate Affairs Committee member	2021-present
Biology Curriculum Committee member	2021-present
Program coordinator for the UGA Microbiology Peer Assistant Program	2021-present
 Faculty advisor for UGA Women in Science organization 	2020-present
Faculty Search Committee for Microbiology Lecturer	2023
Georgia Science & Engineering Fair judge	2021
Served on the Faculty Engagement and Contribution revision committee	2020
Served on the Microbiology Graduate Advisory Committee	2019
 Served as a reviewer for the travel grant applications for Scientists Engaged in Education Research 	2018
 Helped run fundraising event for Women in Science grant to fund childcare for mothers traveling to conferences 	2017

• Science fair project mentor for ASPIRE: Advancing STEM participation through Inspiring Research Experiences	2017
Oconee county trail maintenance volunteer	2016
Northeast Georgia Regional Science and Engineering Fair Judge	2014, 2015, 2016
• Judge for local middle and high school science fairs	2014, 2015
• Produced a promotional video for UGA faculty to encourage service- learning in STEM disciplines	2014
 Helped 4th and 5th graders design science fair projects at Colham Ferry Elementary School 	2013
Rivers Alive: community river clean up volunteer	2013, 2016, 2017, 2018
Dawg Day of Service: grave yard clean up project	2013
• Organized and executed science lab demo for high school with limited science education	2013
• Community Day at LCC international university: Fixed up mission house in Klaipeda, Lithuania	2012
Short term missions trip to Jamaica with Mustard Seed Communities	2012
American Cancer Society Relay for Life Volunteer	2010, 2011, 2012, 2013