Graycen Wheeler

SCIENCE COMMUNICATIONS GRADUATE STUDENT

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

EDUCATION

Master of Science in Science Communication
University of California, Santa Cruz · Santa Cruz, CA

Doctor of Philosophy in Biochemistry
University of Colorado Boulder · Boulder, CO
Research advisor: Dr. Xuedong Liu

Jun 2022 (expected)

May 2021

Bachelor of Science in Biochemistry

University of Oklahoma · Norman, OK Minor: History of Science

Distinction: Magna cum laude GPA: 3.73

GPA: 3.85

May 2015

SCIENCE COMMUNICATION

Science Writing Intern
SLAC National Accelerator Laboratory Press & Publications
Sep 2021 - Present

Freelance Science Writer
Santa Cruz Local
Keypoint Newsletter
Cosmic Evolution Project

Podcast Host, Editor, & Producer Apr 2018 - Dec 2020

Buffs Talk Science: a podcast featuring science from CU Boulder

and beyond

Website: buffstalkscience.com

Editor in Chief Jan 2021 - Jul 2021

Science Buffs: a CU Boulder STEM blog

Website: sciencebuffs.org

Managing Editor Sep 2019 - Jan 2021

Science Buffs: a CU Boulder STEM blog

Website: <u>sciencebuffs.org</u>

Blog Writer & Editor Sep 2017 - Jul 2021

Science Buffs: A CU Boulder STEM Blog

Portfolio: sciencebuffs.org/tag/graycen-wheeler

Chair Moderator for eSymposia Jun 2020 - Jul 2021

Keystone Symposia on Molecular and Cellular Biology

LEADERSHIP AND COMMUNITY

CU Boulder Department of Biochemistry Diversity, Equity and Inclusion 2020 - 2021

Graduate Council Founding Member and Communications Officer

ComSciCon Flagship Programming Organizer 2020

ComSciCon Rocky Mountain West Chairperson/ Lead Organizer 2019

ComSciCon Rocky Mountain West Organizer 2018

Ignite Boulder Selected Speaker Video: <u>youtu.be/Sc4XvoSLQzs</u>	Fall 2019
Boulder Public Library Volunteer	Spring 2020
Engineering Experiences Science Coach	Fall 2016
Norman Regional Hospital Volunteer	Fall 2014 - Spring 2015
TEACHING AND MENTORSHIP	
General Chemistry I Teaching Assistant University of Colorado Boulder · Boulder, CO 2015 Supervisors: Dr. Susan Hendrickson, Dr. Veronica Bierbaum 2018 Supervisors: Dr. Nabilah Carlon, Dr. Gary Abel	Fall 2015, Fall 2018
Advanced Biochemistry: Metabolism Teaching Assistant University of Colorado Boulder · Boulder, CO Supervisor: Dr. Natalie Ahn	Spring 2016
General Chemistry II Teaching Assistant University of Oklahoma · Norman, OK Supervisor: Dr. Laura Clifford	Spring 2015
Research Mentor University of Colorado Boulder · Boulder, CO Mentees: Cathryn Toomey, Amrita Purkayastha, & Nicholas Gary	2017 - 2021
Chemistry/Biochemistry Teaching Assistant Orientation Leader University of Colorado Boulder · Boulder, CO	2016 - 2018
RESEARCH	
Graduate Research Assistant Advisor: Dr. Xuedong Liu	2016 - 2021
Undergraduate Research Assistant Advisor: Dr. Ann H. West	2013 - 2015
SCIENTIFIC PUBLICATIONS	

- <u>Wheeler GE*</u>, Purkayastha A, Bunker EN, Bortz DM, Liu X. Protocol for analysis and consolidation of TrackMate outputs for measuring two-dimensional cell motility using nuclear tracking. In press at *Journal of Visualized Experiments*, 2021.
- Bunker EN*, Wheeler GE*, Chapnick DA, Liu X. Suppression of alpha-catenin and adherens junctions enhances epithelial cell proliferation and motility via TACE-mediated TGF-alpha autocrine/paracrine signaling. *Cofirst author. *Molecular Biology of the Cell*, 2021. https://doi.org/10.1091/mbc.E19-08-0474
- Smallegan MJ, Shehata S*, Spradlin S*, Swearingen A*, Wheeler G*, Das A, Corbet G, Nebenfuehr B, Ahrens D, Tauber D, Lennon S, Choi K, Huynh T, Wieser T, Schneider K, Bradshaw M, Lai M, Baskin J, Read T, Demasi J, Hynes-Grace M, Timmons, Rinn JL (2020). Genome-wide binding analysis of 195 DNA binding proteins reveals "reservoir" promoters and human-specific SVA-repeat family regulation. *Co-second author. *PLOS One*, 2021. https://doi.org/10.1371/journal.pone.0237055
- Sanchez GJ, Richmond PA, Bunker EN, Karman SS, Azofeifa J, Garnett AT, Xu Q, Wheeler GE, Toomey CM, Zhang Q, Dowell RD, Liu X. Genome-wide dose-dependent inhibition of histone deacetylases studies reveal their roles in enhancer remodeling and suppression of oncogenic super-enhancers. *Nucleic Acids Research* 46(4): 1756-1776, 2018. https://doi.org/10.1093/nar/qkx1225

SCIENTIFIC DDESENTATIONS	
SCIENTIFIC PRESENTATIONS	
Summer Multicultural Access to Research Training (SMART) Program University of Colorado Boulder · Boulder, CO Invited workshop leader, science communication workshop	Jun 26, 2020
Signaling & Cellular Regulation Supergroup University of Colorado Boulder · Boulder, CO "Characterizing WKG-133, a novel fat-browning agent"	Oct 28, 2019
Biochemistry Departmental Graduate Student Seminar University of Colorado Boulder · Boulder, CO "A quest to develop a high-throughput screen protocol for fat-browning agents"	Aug 7, 2019
Teen Science Café University of Colorado Boulder · Boulder, CO Invited speaker for science speed dating presentation	Apr 20, 2019
Women in Science & Engineering Science Communication Symposium University of Colorado Boulder · Boulder, CO Invited panelist for podcasting panel discussion	Mar 15, 2019
Nerd Nite Outback Saloon · Boulder, CO "Drug resistance is futile"	Dec 3, 2018
STEMinar University of Colorado Boulder · Boulder, CO "Understanding cell signaling to fight cancer drug resistance"	Oct 11, 2018
Biochemistry Departmental Graduate Student Seminar University of Colorado Boulder · Boulder, CO "Understanding the upregulation of pro-survival protein CLPTM1L upon cancer drug treatment"	Jul 11, 2018
Signaling & Cellular Regulation Supergroup University of Colorado Boulder · Boulder, CO "Understanding the upregulation of pro-survival protein CLPTM1L upon cancer drug treatment"	Mar 19, 2018
ASBMB Poster Session: Chromatin Structure, Remodeling and Gene Expression ASBMB EB Annual Meeting • San Diego, CA "Histone deacetylase inhibition leads to dose-dependent suppression of oncogene-associated super-enhancers."	Apr 22, 2018
Biochemistry Departmental Retreat YMCA of the Rockies • Granby, CO "Bringing you into the Liu-p: Research highlights from the Liu lab"	Oct 14, 2017
HONORS AND AWARDS	
CASW Taylor/ Blakeslee Graduate Fellow	2021 - 2022
Award for Innovation in Service to the CU Boulder Department of Biochemistry	2021
NIH Signaling and Cellular Regulation Graduate Trainee	2016 - 2018
CU Boulder Award for Graduate Teaching Excellence	2015
National Merit Scholar	2011 - 2015
Oklahoma State Regents Academic Scholar	2011 - 2015

PROFESSIONAL DEVELOPMENT

ComSciCon Flagship Attendee July 2019

University of California San Diego · San Diego, CA

Science Speak Easy Attendee February 2019

University of Colorado · Boulder, CO

ASBMB Experimental Biology Meeting Attendee April 2018

San Diego, CA

Science Writers Association of the Rocky Mountains Member

ADDITIONAL SKILLS

Software proficiency in Audacity/Adobe Audition, Affinity Designer/Adobe Illustrator, Affinity Photo/Adobe Photoshop

Programming proficiency in MATLAB, R, bash, JavaScript, CSS and HTML; Experience with remote team projects via GitHub

Language proficiency in German and classical Latin

INTERESTS AND DELIGHTS

Playing tabletop role-playing games, writing goofy movie reviews, solving crossword puzzles, roller skating badly, and trying to get my cat to sit next to me