

Celeste Riepe

mcriepe@berkeley.edu

UC Berkeley, Barker Hall Room 416, Berkeley, CA 94720

EDUCATION

- Ph.D. Candidate, Molecular and Cell Biology, University of California, Berkeley 2013-Present
- Bachelor of Arts in Biochemistry and Cell Biology, Rice University, Houston, TX 2009-2013
 - Graduated *magna cum laude* with a distinction in research and creative works
 - Honors thesis: “High-throughput methods for *C. elegans* assays”
- Valedictorian, Wimberley High School, Wimberley, TX 2005-2009

RESEARCH EXPERIENCE

- Graduate Student Researcher, Nicholas Ingolia Laboratory, UC Berkeley 2014-Present
 - Study mammalian ribosome-associated proteins and their roles in translation
- Undergraduate Researcher, Weiwei Zhong Laboratory, Rice University 2011-2013
 - Developed computer vision system and biological protocols for high-throughput *Caenorhabditis elegans* lifespan, locomotion, body length, and egg laying assays
 - Applied computer vision system in nanoparticle toxicity screen

PUBLICATIONS

- Jung S.K., Qu X., Aleman-Meza B., Wang T., **Riepe C.**, Liu Z., Li Q., Zhong W. (2015). A multi-endpoint, high-throughput study of nanomaterial toxicity in *Caenorhabditis elegans*. ***Environmental Science & Technology***. 49(4):2477-85.
- Jung S.K., Aleman-Meza B., **Riepe C.**, Zhong W. (2014). QuantWorm: a comprehensive software package for *Caenorhabditis elegans* phenotypic assays. ***PLoS ONE***. 9(1):e84830.

TEACHING & WORK EXPERIENCE

- Graduate Student Instructor, Bio 1A: General Biology, UC Berkeley Fall 2014
 - Gave lectures and wrote practice problems for three weekly discussion sections
- Bench Mentor, Weiwei Zhong Laboratory, Rice University Spring 2013
 - Taught three underclassmen basic *C. elegans* biology and how to employ a computer vision system for *C. elegans* phenotypic screens
- Peer Academic Mentor, Rice University 2010-2012
 - Tutored students in review sessions and one-on-one in introductory physics and chemistry
- Development Assistant at the Houston READ Commission Summer 2010
 - Intern at a literacy nonprofit through the Leadership Rice’s Summer Internship Program, a selective leadership and professional development program at Rice University

HONORS & AWARDS

- National Science Foundation Graduate Research Fellowship April 2015
- The Shurl and Kay Curci Foundation President's Award April 2015
- James B. Walker Award for Outstanding Senior in Biochemistry and Cell Biology May 2013
 - Given to a top graduating senior in Biochemistry and Cell Biology at Rice University
- Rice University Trustee Scholarship for Academic Merit 2009-2013
- 2nd Place Poster in Natural Sciences, Rice Undergraduate Research Symposium April 2013
- Texas University Interscholastic League State Champion in Science May 2009
 - 1st Place in Chemistry and 2nd Place in Biology
- CollegeBoard National AP Scholar May 2009