

# Stephanie M. Zimmerman

3218 Eastlake Ave E, Apt F  
Seattle, WA 98102  
(914) 830-7269  
scmz@uw.edu

## EDUCATION

---

Stanford University 2009 – 2015  
Ph.D., Genetics

Harvard University 2004 – 2008  
B.A., *cum laude*, with honors in Biology

## RESEARCH AND PROFESSIONAL EXPERIENCE

---

Life Sciences Research Foundation Postdoctoral Fellow 2015 – present  
Department of Genome Sciences, University of Washington  
Advisor: Dr. Stan Fields

Graduate Student Researcher 2010 – 2015  
Department of Genetics, Stanford University  
Advisor: Dr. Stuart Kim

Research Assistant 2008 – 2009  
Massachusetts General Hospital Cancer Center  
Advisor: Dr. Nabeel Bardeesy

Undergraduate Student Researcher 2005 – 2008  
Department of Organismal and Evolutionary Biology, Harvard University  
Advisor: Dr. Brian Farrell

Undergraduate Student Researcher 2005  
School of Public Health, Harvard University  
Advisor: Dr. Andrew Spielman

## PUBLICATIONS

---

- Zimmerman SM\***, Kon Y\*, Hauke A\*, Ruiz BY, Fields S, Phizicky EM (2018). Conditional accumulation of toxic tRNAs to cause amino acid misincorporation. *Nucleic Acids Research*, 46(15):7831-7843.
- Schmidt ST, **Zimmerman SM**, Wang J, Kim SK, Quake SR (2017). Quantitative analysis of synthetic cell lineage tracing using nuclease barcoding. *ACS Synthetic Biology*, 6(6):936-942.
- Zimmerman SM**, Kim SK (2016). New insights into old worm proteomes (commentary). *Worm*, 5(3):e1184391.
- Zimmerman SM**, Hinkson IV, Elias JE, Kim SK (2015). Reproductive aging drives protein accumulation in the uterus and limits lifespan in *C. elegans*. *PLOS Genetics*, 11(12):e1005725.

5. **Zimmerman SM**, Kim SK (2014). The GATA transcription factor/MTA-1 homolog egr-1 promotes longevity and stress resistance in *Caenorhabditis elegans*. *Aging Cell*, 13(2):329-39.
6. Cho U, **Zimmerman SM**, Chen LC, Owen E, Kim JV, Kim SK, Wandless TJ (2013). Rapid and tunable control of protein stability in *Caenorhabditis elegans* using a small molecule. *PLOS One*, 8(8):e72393.
7. Hezel AF, Deshpande V, **Zimmerman SM**, Contino G, Alagesan B, O'Dell MR, Rivera LB, Harper J, Lonning S, Brekken RA, Bardeesy N (2012). TGF $\beta$  and  $\alpha$ v $\beta$ 6 integrin act in a common pathway to suppress pancreatic cancer progression. *Cancer Research*, 72(18):4840-5.
8. Ying H, Elpek KG, Vinjamoori A, **Zimmerman SM**, Chu GC, Yan H, Fletcher-Sananikone E, Zhang H, Liu Y, Wang W, Ren X, Zheng H, Kimmelman AC, Paik JH, Lim C, Perry SR, Jiang S, Malinn B, Protopopov A, Colla S, Xiao Y, Hezel AF, Bardeesy N, Turley SJ, Wang YA, Chin L, Thayer SP, DePinho RA (2011). PTEN is a major tumor suppressor in pancreatic ductal adenocarcinoma and regulates an NF- $\kappa$ B-cytokine network. *Cancer Discovery*, 1(2):158-69.
9. Deshpande V, Nduaguba A, **Zimmerman SM**, Kehoe SM, Macconail LE, Lauwers GY, Ferrone C, Bardeesy N, Zhu AX, Hezel AF (2011). Mutational profiling reveals PIK3CA mutations in gallbladder carcinoma. *BMC Cancer*, 11:60.

\*equal contribution

## GRANTS AND AWARDS

---

Life Sciences Research Foundation Postdoctoral Fellowship Washington Research Foundation Fellow	2017 – 2020
NSF Graduate Research Fellowship	2011 – 2014
Stanford Graduate Fellowship Smith Fellow	2009 – 2014
NSF Graduate Research Fellowship Honorable Mention	2010
Harvard Museum of Comparative Zoology Undergraduate Research Grant	2007
Harvard College Research Program Grant	2006 – 2007
Harvard College Program for Research in Science and Engineering Fellowship	2006

## ORAL PRESENTATIONS

---

Cascadia Proteomics Conference, Institute for Systems Biology, Seattle, WA “Measuring the effect of missense variants on protein stability proteome-wide”	July 9, 2019
Protein Society Annual Symposium, Seattle, WA “Measuring the effect of missense variants on protein stability proteome-wide”	July 3, 2019
Yeast Genetics Meeting, Stanford University, Stanford, CA “Measuring the functional effects of mutations proteome-wide using mistranslation”	Aug 24, 2018

UW Proteomics Resource Seminar Series, University of Washington, WA “Measuring the functional effects of mutations proteome-wide using mistranslation”	Dec 5, 2017
Deep Mutational Scanning Symposium, University of Washington, Seattle, WA “Deep mutational scanning of multiple proteins in the yeast mating pathway”	Sep 11, 2017
Bay Area Worm Meeting, University of California-Davis, Davis, CA “ <i>egr-1</i> promotes longevity and stress resistance in <i>C. elegans</i> ”	April 13, 2013
National Center for Dynamic Interactome Research Meeting, Institute for Systems Biology, Seattle, WA “Transcriptional and proteomic profiling of aging in <i>C. elegans</i> ”	May 1, 2012

## **TEACHING EXPERIENCE**

---

UW Genome Sciences Journal Club Organize and facilitate journal club presentation seminar course for GS graduate students Advise 2 <sup>nd</sup> year students on selecting a paper and preparing a presentation to the department	2019 – 2020
UW Genome Sciences Genomics Bootcamp Designed and facilitated one-day genomics lab for Seattle tech industry professionals	Feb and June 2018
Stanford Institute of Medicine Summer Research Program Guest lecturer, Genetics course Instructor, Genetics course	Summer 2013 and 2014 Summer 2012
Palo Alto and Gunn High Schools Designed genetics labs and taught AP Biology lab classes	2010 – 2013

## **MENTORING EXPERIENCE**

---

Undergraduate students:	
TJ Hazen (University of Washington Summer Research Program)	Summer 2018
Ethan Hills (University of Washington)	2016 – 2017
Yeji Kim (Stanford University honors senior thesis)	2011 – 2012
Graduate rotation students:	
Bianca Ruiz (University of Washington)	Fall 2016
Stephanie Tzouanas (Stanford University)	Fall 2014
Katie Sharp (Stanford University)	Spring 2011
Alicia Martin (Stanford University)	Fall 2010
High school students:	
Elliot Owen (Stanford University)	Summer 2012
Stanford Biosciences Student Association Mentor to first year biosciences graduate students Fellowship application mentor	2012 – 2015

## **PROFESSIONAL SERVICE AND OUTREACH**

---

Reviewer for <i>PLOS Genetics</i>	2015 – present
Conferences organized:	
Organizing Committee, Deep Mutational Scanning Symposium, Seattle WA	Jan 13-14, 2020
Session chair, UW Genome Sciences Annual Symposium	Nov 2, 2018
Organizing Committee, Bay Area Worm Meeting, Stanford University	April 26, 2014
Professional organizations:	
University of Washington Women in Genome Sciences	2015 – present
The Protein Society	2019 – present
Genetics Society of America	2013 – present
Guest lecturer, University of Washington Summer Research Program	July 2016
Led discussions of research and graduate school admissions for underrepresented minority students participating in a summer research program	
Stanford University Genetics Department Graduate Admissions Committee	
Student interviewer and admissions committee representative	2014
Student recruitment organizer	2012