

ZEBA WUNDERLICH, PHD

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Boston, MA 02446

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EMPLOYMENT

Boston University

Assistant Professor, Department of Biology

Boston, MA
July 2021-present

University of California

Visiting Assistant Professor, Dept. of Developmental and Cell Biology
Assistant Professor, Dept. of Developmental and Cell Biology

Irvine, CA
July 2021-present
April 2015-June 2021

EDUCATION

Harvard University

PhD, Biophysics

Cambridge, MA
June 2008

Rutgers University

BA, Molecular Biology and Biochemistry, Statistics
GPA 4.0, Highest Honors, Phi Beta Kappa, Rutgers College General Honors Program

New Brunswick, NJ
May 2003

SELECTED AWARDS AND HONORS

Learning Experience Design and Online Teaching Award	2021
Excellence in Undergraduate Teaching: Dean's Honoree	2020
Chancellor's Award for Excellence in Fostering Undergraduate Research	2019
NICHD Nominee, Presidential Early Career Awards for Scientists & Engineers	2019
Hellman Fellowship	2017
NIH K99/R00 Pathway to Independence Award	2012-2020
Jane Coffin Childs Memorial Fund Postdoctoral Fellow	2009-2012
Howard Hughes Medical Institute Predoctoral Fellowship	2003-2008
Hanson Prize for Special Service to Graduate Students	2007
Biophysics Student Recognition Award	2006
Certificate of Distinction in Teaching	2004
CABM/Dreyfus Outstanding Undergraduate Award	2003
Henry Rutgers Scholar	2003
Rutgers College Dean's Award for Excellence	2003

RESEARCH EXPERIENCE

Harvard Medical School

Postdoctoral Fellow in Systems Biology

Boston, MA
2008-2015

Advisor: Angela DePace

Identified sources of gene expression pattern divergence between Drosophila species in the early embryo using statistical modeling, genetics, and quantitative imaging.

Harvard University

Graduate Student in Biophysics

Cambridge, MA
2003-2008

Advisor: Leonid Mirny

Using a broad range of computational tools, studied the information content of transcription factor binding specificity, transcription factor diffusion in bacteria, protein-ligand binding in the SH2 protein domain family, and the necessity of metabolic genes in E. coli and yeast.

Rutgers University

New Brunswick, NJ

Undergraduate Researcher

2001-2003

Advisor: Gaetano Montelione

Created bioinformatic tools and a website to track protein targets in a structural genomics consortium and developed a website to validate a NMR-inspired homology modeling technique.

PUBLICATIONS

XX. BA Ramirez-Corona, AC Love, S Chandrasekaran, JA Preshcer, **Z Wunderlich**.

Longitudinal monitoring of individual infection progression in *Drosophila melanogaster*. (Submitted; available on bioRxiv).

XX. JM Han, S Perera, **Z Wunderlich**, V Periwal. Mechanistic Gene Networks Inferred from Single-Cell Data are Better Predictors than Neural Networks. (Submitted; available on bioRxiv).

35. R Waymack, M Gad, **Z Wunderlich**. Molecular competition can shape enhancer activity in the *Drosophila* embryo. (Accepted at iScience; available on bioRxiv).

34. L Li, R Waymack, M Gad, **Z Wunderlich**. Two promoters integrate multiple enhancer inputs to drive wild-type *knirps* expression in the *D. melanogaster* embryo. (Accepted at GENETICS; available on bioRxiv).

33. R Waymack, **Z Wunderlich**. Development across space and time (News & Views). *Nature Computational Science*. (2021).

32. BA Ramirez-Corona, S Fruth, O Ofoegbu, **Z Wunderlich**. The mode of immune-responsive gene expression divergence in *D. melanogaster* is infection-specific. *Genome Research*. (2021).

31. E Kvon*, R Waymack, M Gad, **Z Wunderlich***. Enhancer Redundancy in Development and Disease. *Nature Reviews Genetics*. (2021).

*Co-corresponding authors; equal contributions

30. F Lopez-Rivera, OK Foster, BJ Vincent, ECG Pym, MDJ Bragdon, J Estrada, AH DePace, **Z Wunderlich**. A mutation in the *Drosophila melanogaster eve stripe 2* minimal enhancer is buffered by flanking sequences. *G3: Genes, Genomes, Genetics*. (2020).

29. R Waymack, A Fletcher, G Enciso, **Z Wunderlich**. Shadow enhancers suppress input transcription factor noise through distinct regulatory logic. *eLife*. (2020).

28. **Z Wunderlich***, CC Fowlkes, KB Eckenrode, MDJ Bragdon, A Abiri, AH DePace. Quantitative comparison of the anterior-posterior patterning system in the embryos of five *Drosophila* species. *G3: Genes, Genomes, Genetics*. (2019).

*Sole corresponding author

27. J Park, J Estrada, G Johnson, BJ Vincent, C Ricci-Tam, MDJ Bragdon, Y Shulgina, A Cha, **Z Wunderlich**, J Gunawardena, AH DePace. Dissecting the sharp response of a canonical developmental enhancer reveals multiple sources of cooperativity. *eLife*. (2019).

26. BJ Vincent, MV Staller, F Lopez-Rivera, MDJ Bragdon, EJ Pym, KM Biette, **Z Wunderlich**, J Estrada, AH DePace. Hunchback is counter-repressed to regulate even-skipped stripe 2 expression in *Drosophila* embryos. *PLoS Genetics*. (2018).

25. X Wang, T Zhou, **Z Wunderlich**, MT Maurano, AH DePace, SV Nuzhdin, R Rohs. Analysis of Genetic Variation Indicates DNA Shape Involvement in Purifying Selection. *Molecular Biology and Evolution*. (2018).
24. NM Osman, S Vlaho, TH Kitapci, **Z Wunderlich**, SV Nuzhdin. Inference of transcription factor regulation patterns using gene expression covariation in natural populations of *Drosophila melanogaster*. *Biophysics*. (2018).
23. MAH Samee, T Lydiard-Martin, KM Biette, BJ Vincent, MD Bragdon, KB Eckenrode, **Z Wunderlich**, J Estrada, S Sinha, AH DePace. Quantitative Measurement and Thermodynamic Modeling of Fused Enhancers Support a Two-Tiered Mechanism for Interpreting Regulatory DNA. *Cell Reports*. (2017).
22. L Li, **Z Wunderlich***. An Enhancer's Length and Composition Are Shaped by Its Regulatory Task. *Frontiers in Genetics*. (2017).
*Sole corresponding author
21. J Estrada, T Ruiz-Herrero, C Scholes, **Z Wunderlich**, AH DePace. SiteOut: an online tool to design binding site-free DNA sequences. *PLoS ONE*. (2016).
20. **Z Wunderlich**, MDJ Bragdon, Ben J Vincent, Jonathan A White, Javier Estrada, AH DePace. Kruppel expression is conserved through compensatory evolution of shadow enhancers. *Cell Reports*. (2015).
19. BJ Vincent*, C Scholes*, MV Staller*, **Z Wunderlich***, J Estrada*, J Park*, MD Bragdon*, F Lopez Rivera*, KM Biette*, AH DePace*. Yearly Planning Meetings: Individualized Development Plans Aren't Just More Paperwork. *Molecular Cell*. (2015).
*Authors contributed equally to this work
18. MV Staller, MDJ Bragdon, **Z Wunderlich**, J Estrada, AH DePace. A gene expression atlas of a *bicoid*-depleted *Drosophila* embryo reveals early canalization of cell fate. *Development*. (2015).
17. MV Staller, BJ Vincent, MDJ Bragdon, **Z Wunderlich**, J Estrada, AH DePace. Shadow enhancers enable Hunchback bifunctionality in the *Drosophila* embryo. *PNAS*. (2015).
16. **Z Wunderlich**, MD Bragdon, and AH DePace. Comparing mRNA levels using *in situ* hybridization of a target gene and co-stain. *Elsevier Methods*. (2014).
15. MV Staller, D Yan, S Randklev, MD Bragdon, **Z Wunderlich**, R Tao, LA Perkins, AH DePace, N Perrimon. Depleting gene Activities in Early *Drosophila* Embryos with the "maternal-Gal4 - shRNA" system. *Genetics*. (2012).
14. **Z Wunderlich**, MD Bragdon, K Eckenrode, T Martin, S Pearl, and AH DePace. Dissecting sources of quantitative gene expression pattern divergence between *Drosophila* species. *Molecular Systems Biology*. (2012).
13. **Z Wunderlich**, AH DePace. Modeling transcriptional networks in *Drosophila* development at multiple scales. *Current Opinion in Genetics and Development*. (2011).
12. CC Fowlkes*, K Eckenrode*, MD Bragdon*, M Meyer, **Z Wunderlich**, L Simirenko, CL Luengo Hendriks, SVE Keränen, C Henriquez, DW Knowles, MD Biggin, MB Eisen, AH DePace. A conserved developmental patterning network produces quantitatively different output in multiple species of *Drosophila*. *PLoS Genetics*. (2011).
11. L Mirny, M Slutsky, **Z Wunderlich**, A Tafvizi, J Leith, A Kosmrlj. How a protein searches for its site on DNA: the mechanism of facilitated diffusion. *Journal of Physics A*. (2009).

10. **Z Wunderlich**, LA Mirny. Different gene regulation strategies revealed by analysis of binding motifs. *Trends in Genetics*. (2009).
9. **Z Wunderlich**, LA Mirny. Using genome-wide measurements for computational prediction of SH2-peptide interactions. *Nucleic Acids Research*. (2009).
8. **Z Wunderlich***, LA Mirny. Spatial effects on the speed and reliability of protein-DNA search. *Nucleic Acids Research*. (2008).
*Sole corresponding author
7. **Z Wunderlich**, K Kuchibhotla. Non-traditional publishing choices can enrich science (Letter to the editor). *Nature*. (2008).
6. W Tian, LV Zhang, M Tasan, FD Gibbons, OD King, J Park, **Z Wunderlich**, JM Cherry, FP Roth. Combining guilt-by-association and guilt-by-profiling to predict *Saccharomyces cerevisiae* gene function. *Genome Biology*. (2008).
5. A Bhattacharya, **Z Wunderlich**, D Monleon, R Tejero, GT Montelione. Assessing model accuracy using the Homology Modeling Automatically (HOMA) Software. *Proteins: Structure, Function, Bioinformatics*. (2007).
4. G Kolesov*, **Z Wunderlich***, ON Laikova, MS Gelfand, LA Mirny. How gene order is influenced by the biophysics of transcription regulation. *PNAS*. (2007).
*Authors contributed equally to this work.
3. **Z Wunderlich** and LA Mirny. Using topology of the metabolic network to predict viability of mutant strains. *Biophysical Journal*. (2006).
2. **Z Wunderlich**, TB Acton, J Liu, G Kornhaber, J Everett, P Carter, N Lan, N Echols, M Gerstein, B Rost, and GT Montelione. The protein target list of the Northeast Structural Genomics Consortium. *Proteins: Structure, Function, Bioinformatics*. (2004).
1. C-S Goh, N Lan, N Echols, S Douglas, D Milburn, P Bertone, R Xiao, L-C Ma, D Zheng, **Z Wunderlich**, TB Acton, GT Montelione, and Mark Gerstein. SPINE 2: A system for collaborative structural proteomics within a federated database framework. *Nucleic Acids Research*. (2003).

GRANT AND FELLOWSHIP SUPPORT

Current

UCI Cancer Systems Biology Center	\$25,000 (Direct)	4/1/21-3/31/22
<i>Single-cell analysis of immune surveillance using Drosophila</i>		
Role: mPI, along with PI A. Lander		
UCI Infectious Disease Science Initiative	\$15,000 (Direct)	4/1/21-3/31/22
<i>Using real-time, non-invasive measurements of infection dynamics to uncover drivers of survival</i>		
Role: mPI, along with PI J. Prescher		
NSF-Simons Center for Multi-scale Cell Fate Research		
	\$15,000 (Direct)	1/1/21-12/31/21
<i>Using real-time, non-invasive measurements of infection dynamics to uncover drivers of survival</i>		
Role: mPI, along with PI J. Prescher		
NSF/MCB 1953324	\$999,999 (Total)	5/1/20-4/30/24
<i>Uncovering the regulatory DNA logic of the Drosophila innate immune response</i>		
Role: PI		

NIH/NICHD R01-HD095246 \$1,511,341 (Total) 7/1/18-5/31/23
Mechanisms of Shadow Enhancer Robustness During Development
 Role: PI

NIH/NIGMS R25-GM126365 \$1,361,730 (Total) 9/1/17-7/31/22
Systems Biology: A Foundation for Interdisciplinary Careers
 Role: Co-I

Completed

NIH/NICHD K99/R00-HD073191 \$744,509 (R00) 4/1/15-3/31/20 (R00)
Dissecting Expression Divergence in Developmental Networks Across Drosophilids
 Role: PI

Hellman Foundation \$50,000 (Direct) 7/1/17-6/30/18
Translating Noisy Signals into Predictable Developmental Patterning
 Role: PI

Jane Coffin Childs Memorial Fund Fund Fellowship 7/1/09-6/30/12
Connecting sequence divergence to quantitative phenotype differences in Drosophila
 Role: Fellowship Awardee

Howard Hughes Medical Institute Predoctoral Fellowship 9/1/03-8/31/08
 Role: Fellowship Awardee

PRESENTATIONS

Invited speaker	<i>University of Wisconsin, Madison, Genetics Colloquium</i>	2021
Invited speaker	<i>Vanderbilt, Quantitive Systems Biology Center</i>	2021
Invited speaker	<i>University of Sheffield, Dept. of Mol. Biology</i>	2021
Invited speaker	<i>Cincinnati Children's, Div. of Developmental Biology</i>	2021
Invited speaker	<i>UCSD, Diversity and Science Lecture Series</i>	2020
Invited speaker	<i>UCLA, Dept. of Molecular, Cell, and Developmental Biology</i>	2020
Seminar speaker	<i>UCLA, QCBio Seminar Series</i>	2019
Invited speaker	<i>Harvard Med School Systems Biology Dept Annual Retreat, ME</i>	2019
Seminar speaker	<i>Rutgers University, Molecular Biology & Biochemistry Seminar</i>	2019
Accepted speaker	<i>Network Biology Meeting, Cold Spring Harbor, NY</i>	2019
Invited speaker	<i>Biophysics Society Thematic Meeting, Santa Cruz, CA</i>	2018
Seminar speaker	<i>UC Irvine, Microbiology and Molecular Genetics Seminar</i>	2017
Seminar speaker	<i>UCLA, Program in Bioinformatics Seminar</i>	2017
Seminar speaker	<i>San Diego State University, Computational Sciences Colloquium</i>	2017
Invited speaker	<i>Southern California Systems Biology Conference, Irvine, CA</i>	2016
Invited speaker	<i>Southern California Drosophila Conference, Irvine, CA</i>	2015
Invited speaker	<i>National Centers for Systems Biology Meeting, Albuquerque, NM</i>	2015
Invited speaker	<i>U01 Center Grant Retreat, USC, Los Angeles, CA</i>	2015
Invited speaker	<i>Center for Complex Biological Systems Annual Retreat, LA, CA</i>	2015
Selected speaker	<i>Annual Drosophila Research Conference, Chicago, IL</i>	2015
Selected speaker	<i>ASBMB Special Symposium, Chicago, IL</i>	2013
Selected speaker	<i>q-bio, Santa Fe, NM</i>	2012
Selected speaker	<i>Systems Biology: Global Regulation of Gene Expression, CSHL</i>	2012
Seminar speaker	<i>Broad Institute, Cambridge, MA</i>	2011
Selected speaker	<i>Annual Drosophila Research Conference, San Diego, CA</i>	2011
Selected speaker	<i>European Society for Evolutionary Developmental Biology, Paris</i>	2010

TEACHING EXPERIENCE**University of California**

Instructor, Topics in Systems Biology (Dev Bio 212)	Irvine, CA W17-21
Instructor, Genetics (Bio Sci 97)	F16, 18-20
Lab Module Director, National Short Course in Systems Biology	W16, S18, W19, W20
Guest Lecturer, Dev. and Cell Bio. Majors Seminar (Bio Sci D114)	S16
Guest Lecturer, Critical Thinking in Systems Biology (Dev Bio 203A)	F15, 18, 19
Guest Lecturer, Principles of Genomics (Dev Bio 214)	F15
Guest Lecturer, Systems Biology of Development (Dev Bio 203C)	S15-20
Lecturer, Mathematical, Computational and Systems Biology Bootcamp	F14-16, 19

(F = Fall, W = Winter, S = Spring)

Trainings Attended

Course Design Certification Program, Center for Engaged Instruction	Fall 15
Advanced Training in Active Learning, Center for Engaged Instruction	Fall 18

Ph.D Student Supervision

2021-present	Jillian Ness	Chair	MCBB
2018-present	Kevin Cabrera	Chair	Dev. & Cell Biology
2017-2021	Rachel Waymack	Chair	Dev. & Cell Biology
2016-present	Bryan Ramirez-Corona	Chair	Dev. & Cell Biology
2015-2021	Lily Li	Chair	Dev. & Cell Biology

Post-doctoral Fellow Supervision

2020-present	Lianne Cohen	Supervisor	Dev. & Cell Biology
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Master's Student Supervision

2016-2017	Marley Hilleger	Chair	Dev. & Cell Biology
2016-2017	Punya Narayan	Mentor	Biotech. Mgmt. MS

Undergraduate Student Supervision

2020-2021	Aman Burji
2020-2021	Sima Tahmouresie
2020-2021	Duncan Hoard
2019-2021	Oluchi Ofoegbu
2017-2019	Stephanie Fruth
2016-2018	Arash Abiri
2015-2016	Flo Ramirez

Honors and Awards

SURP
NIH-IMSD/MARC/UROP/Robert Ernst Prize
Excellence in Research/UROP/Robert Ernst Prize
Excellence in Research
UROP

Rotation Student Supervision

Fall 2015	Ceazar Nave
Winter 2016	Klebea Carvalho
Winter 2017	Qingda Hu
Winter 2018	Jingtian (Josh) Wang
Spring 2018	Bahareh Sorouri
Winter 2020	Cassandra Van
Winter 2021	Amina Hussein
Spring 2021	Daniel Martinez

PhD Program

CMB
Pham Sci
MCSB
CMB
CMB
MCSB
MCSB
CMB

Other Research Supervision

2020-2021	Ariana Lee	Jr. Specialist in lab
2019-2020	Vinay Kumar	Volunteer in lab

2019	Phoebe Cao	High school student
2019-2020	Mario Elabd	Jr. Specialist in lab
2017-2018	Subhapradha Rangarajan	Volunteer in lab

Support and Awards for Wunderlich Lab Graduate Students

Lily Li: NIBIB MCSB T32 training grant (2015-2017), GAANN Fellowship (2017-2018), CCBS Opportunity Award (2016), NSF GRFP Honorable Mention

Bryan Ramirez-Corona: Bridge to Doctorate Fellowship (2015-2017), CCBS Opportunity Award (2017)

Rachel Waymack: NSF GRFP Honorable Mention, ARCS Award (2018-2020), Genetics Society of America DeLill Nasser Award (2021), Howard Schneiderman Award (2021)

Kevin Cabrera: NIH-IMSD Fellowship (2018-2019), NSF GRFP (2019-2022)

Marine Biological Laboratory

Lecturer, Gene Regulatory Networks for Development

Teaching Assistant, Physiology Course, MATLAB & Statistics Bootcamp

Woods Hole, MA

October 2019

Summer 2008

Harvard University

Undergraduate Tutorial Instructor

Teaching Assistant, MATLAB Bootcamp

Teaching Fellow, Mathematics in Biology

Cambridge, MA

Fall 2009

Summer 2009

Fall 2004, Fall 2005

SERVICE

Student Committees

2021-present	Alexandra Chasse	Committee Member	Biology (BU)
2020-2021	Fairlie Reese	Committee Member	Dev. & Cell Biology
2020	David Au	Committee Member	Phys & Biophys
2020-2021	Nam Nguyen	Committee Member	Biological Chemistry
2019-present	Alvaro Fletcher	Committee Member	MCSB
2019-2021	Karissa Munoz	Committee Member	Dev. & Cell Biology
2019-2021	Katherine Williams	Committee Member	Dev. & Cell Biology
2019-2020	Sorena Rahmanian	Committee Member	MCSB
2019-2021	Jeff Zhou	Committee Member	Dev. & Cell Biology
2019	Bryan Clifton	Oversight Member	Ecology & Evo. Bio.
2019	Robert West	M.S. Committee Member	Biomed. Engineering
2018-2021	Gabriela Balderrama Gutierrez	Committee Member	Dev. & Cell Biology
2018-2021	Paula Pham	Committee Member	Dev. & Cell Biology
2018-2020	Dana Wyman	Committee Member	MCSB
2017-2021	Tuyen Nguyen	Committee Member	Dev. & Cell Biology
2017-2021	Lianna Fung	Committee Member	Dev. & Cell Biology
2017-2020	Lorrayne Serra	Committee Member	Dev. & Cell Biology
2016-2021	David Tatarakis	Committee Member	Dev. & Cell Biology
2016-2020	Leonila Lagunes	Committee Member	Dev. & Cell Biology
2015-2019	Stephanie Wu	Committee Member	Dev. & Cell Biology
2015-2019	Camden Jansen	Committee Member	Dev. & Cell Biology
2015-2019	Jin Cho	Committee Member	Dev. & Cell Biology
2018	Julien Morival	Oversight Member	Biomed. Engineering
2017	Lara Clemens	Oversight Member	MCSB
2017	Paige Radtke	M.S. Committee Member	Dev. & Cell Biology

2016	Bryan Boubion	Committee Member	Dev. & Cell Biology
2016	Nicole Godfrey	Oversight Member	Chemistry
2015-2018	Sarah Carmona	Committee Member	Dev. & Cell Biology
2015-2018	Shan (Mandy) Jiang	Committee Member	Dev. & Cell Biology
2015	Sridevi Maharaj	Oversight Member	Computer Science
2015	Mark Phillips	Oversight Member	Ecology & Evo. Bio.
2015-2016	Maja Bialecka-Fornal	Post-Doc Committee Mem	Dev. & Cell Biology

University, Campus, School, and Department Service

2020-2021	DEI Task Force, UCI MCSB Graduate Program, Chair.
2020	Hellman Fellowship Review Panel, Member.
2019-2021	Mentor for 3 junior faculty members in the UCI School of Biological Sciences.
2018-2021	UCI Molecular, Systems and Computational Biology Graduate Program, Advisor.
2017-2020	UCI Campuswide Honors Program Board, Member.
2015-2020	UCI Cell & Molecular Biosciences Preliminary Exam Committee, Member.
2016-2020	UCI Cell & Molecular Biosciences Admissions Committee, Member.
2018-2019	UCI Evo-Devo Faculty Search Committee, Chair.
2018	Developed the “New Faculty Handbook” for new faculty in the UCI School of Biological Sciences, which includes guidance for starting their lab, applying for grants, teaching, etc.
4/2018	Panelist for discussion on applying for NIH K99/R00 awards.
2/2017	Panelist for discussion on applying for faculty jobs.
2017	Completed a Peer Teaching Evaluation for Scott Atwood, Cell Biology, UCI D103.
2016-2017	UCI Developmental and Cell Biology Faculty Search Committee, Member.
2016-2017	UCI Drosophila Interest Group, Organizer.
2016	UCI Optical Biology Core Steering Committee, Member.
2016	Recruitment Committee for Department Financial Analysts, Member.
8/2015	Featured in a “UCI Researcher and Research Spotlight” video, Guest Speaker. https://www.youtube.com/watch?v=maxcA7x4Prw
5/2015	Opportunity Award reviewer for the UCI Center for Complex Biological Systems.

Reviewer and Editor Service

Reviewer for ACS Synthetic Biology, Bioinformatics, Biophysical Journal, Cell Systems, Development, eLife, Evolution and Development, F1000 Research, Genome Research, Molecular Biology and Evolution, Molecular Systems Biology, Nature, Nucleic Acids Research, Physical Review Letters, PLoS Computational Biology, PLoS Genetics, PLoS ONE, Scientific Reports.

Guest Editor for PLoS Computational Biology.

Professional Service

2019-present	New PI Slack, Content Czar (2019-20), Membership Advisory Board (2020-present). https://newpislack.wordpress.com
8/2017	Genetics Society of America’s “Genes to Genomes” Blog, Guest Post Author. http://genestogenomes.org/take-control-of-your-academic-job-search/
6/2016	The Allied Genetics Conference, Trainee Track Steering Committee, Member. Orlando, FL
3/2015	Annual Drosophila Research Meeting, Session Chair. Chicago, IL
2013-2015	Genetics Society of America, Postdoctoral Representative, Conferences Committee.

7/2010 European Society for Evolutionary Developmental Biology,
Symposium Organizer.
Paris, France

Diversity Activities and Community Outreach

2021-present ASCB MOSAIC Scholar Mentor, serving as an outside mentor for a URM post-doctoral fellow to help her secure her first tenure-track position.

2015-2021 UCI First Generation Faculty Initiative, Participant.

12/2020 Interviewed for the IHeartRadio podcast "Prodigy", "The Source Code" episode.
<https://www.prodigypodcast.com/episodes/source-code/>

10/2020 Served on a panel discussion "Creating a safe and inclusive environment for trainees" as part of the UCSD Diversity and Science Lecture Symposium.

7/2019 Gave a talk and answered questions for undergraduate research trainees participating in a summer UCI Minority Student Program (MSP).

3/2019 Served as a panelist on a gender equity panel at CSHL's Network Biology meeting.

2/2018 Attended a workshop entitled "Accounting for Race and Culture in the STEM Classroom."

8/2017 Gave a talk and answered questions for undergraduate research trainees participating in a summer UCI Minority Student Program (MSP).

12/2016 Attended UCI AB540 UndocuAlly training to become an ally for undocumented students.

10/2015 Irvine Unified School District, Ask-a-Scientist Night, Irvine, CA.

8/2015 Hosted a group of elementary school teachers for a lab tour. The teachers are participants in the UCI ESCAPE program, a project to promote equity in science education for English language learners.

8/2015 Gave a lecture and lab tour to students in the AISS (Achievement Institute of Scientific Students). This program aims to help economically disadvantaged students gain a university education in the STEM fields.