

Griffin Chure

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Education

Ph.D Biochemistry & Molecular Biophysics, California Institute of Technology, (*in progress*)

B.S. Chemistry (Minor Physics), H.B.S. Biology, University of Utah, 2013

A.S. General Science (Biology Emphasis), Utah State University, 2009

Experience & Positions

California Institute of Technology

- **Position** Graduate Student in Biochemistry & Molecular Biophysics
- **Adviser** - Rob Phillips, Department of Biology and Biological Engineering
- **Thesis Topics** - Statistical mechanics of allosteric gene regulation, diversity of bacteriophage/host interactions, and physiological implications of mechanosensation.

University of Utah

- **Degrees** - B.S. Chemistry (Minor Physics), Hon.B.S. Biology, *May 2013*
- **Adviser** - David F. Blair, Department of Biology
- **Thesis Topics** - Molecular assembly and biochemical characterization of the bacterial flagellar motor.
- **Thesis Title** - "How FlhE Controls Cellular Morphology Through Control of Flagellar Assembly in *Escherichia coli*."

Utah State University

- **Degree** - A. S. General Science, Biology Emphasis, *April 2009*

Publications

† indicates equal contribution

1. Manuel Razo-Mejia†, Stephanie L. Barnes †, Nathan M. Belliveau†, **Griffin Chure†**, Tal Einav†, Mitchell Lewis, Rob Phillips (2017) Tuning transcriptional regulation through signaling: A predictive theory of allosteric induction. *In review*. doi:10.1101/111013. Preprint available on bioRxiv.

Teaching

California Institute of Technology

- Physical Biology of the Cell (with Justin Bois) - TA - 2018

- Physical Biology Bootcamp (with Rob Phillips) - Optics TA - 2017
- Bi1: Principles of Biology (with Rob Phillips) - Head TA - 2017
- Data Analysis in the Biological Sciences (with Justin Bois) - TA - 2016, 2017
- Programming for the Biological Sciences (with Justin Bois) - TA - 2016
- Bi1x: The Great Ideas of Biology (with Justin Bois) - TA - 2014, 2015

Extramural

- MBL Physiology Course - MATLAB Instructor (with James Boedicker) - 2017
- MBL Physiology Course - Research TA - 2015, 2016, 2017
- GIST (Gwangju, PRK) Physical Biology of the Cell - Programming TA - 2016, 2017
- KITP Evolutionary Cell Biology - Research and Programming TA - 2015
- CSHL Physical Biology of the Cell - Programming TA - 2015

University of Utah

- Advanced Biochemistry Lab (with David Goldenberg) - TA - 2013
- Principles of Genetics (with J.S. Parkinson) - TA - *Sp. 2012, Fa. 2012*
- Biosciences Research Bootcamp (with Rosemary Gray) - TA - 2010
- Introduction to Biology (with Tanya Vickers) - TA - 2010

Service & Leadership

- Biochemistry & Molecular Biophysics Graduate Student Council - Co-chair - 2015-7
- Caltech RISE High School Mentoring Program - Biology & Physics Tutor - 2015-2016
- Caltech SURF - Research Mentor - 2015
- Caltech SURF - Presentation Judge - 2014