

Alexander M. Wolff

Education

Ph.D., Biophysics
University of California, San Francisco
Research Advisor: James Fraser, Ph.D.
Dissertation Title: TBD

In Progress
San Francisco,
California

M.S., Molecular Biology
University of Wyoming
Research Advisor: Mark Stayton, Ph.D.

May 2015
Laramie, WY

Thesis Title: "Effects of Pericardiectomy, Exercise Training and Myocardial Infarction upon Left-Ventricular mRNA Steady-State Concentrations of Selected Biomarkers"

B.S. *cum laude*, Kinesiology & Health Promotion
University of Wyoming

May 2013
Laramie, WY

Publications

Accepted – In Press

Wolff, A.M.; Rasmussen, T.P.; Wichern, C.R.; Peterson, M.R.; Stayton, M.M.; & Thomas, D.P. "Effects of chronic pericardiectomy on training- and MI-induced left ventricular hypertrophy." *International Journal of Sports Medicine*. 2016

Grants and Fellowships

NIH T32 Research Fellow
University of California, San Francisco

- Fall 2015
 - ✓ Molecular Biophysics Training Grant

Matilda Edlund Scholarship
University of California, San Francisco

- Fall 2015
 - ✓ 1 of 2 awarded to incoming graduate class at UCSF

INBRE Undergraduate Research Fellowship
University of Wyoming

- Summer 2012
- Fall 2012
- Spring 2013
 - ✓ Designed a project and chose candidate genes to examine the effects of exercise after a myocardial infarction in a mouse model

- ✓ Wrote a paper summarizing my results and the experience I gained at the end of each award
- ✓ Attended the University of Wyoming Undergraduate Research Symposium to learn about ethics in scientific research

Research Experience

Fraser Lab, Dissertation Research University of California, San Francisco Summary: Using diffuse X-ray scattering to inform allosteric connections between distant sites in proteins.	Jun 2016-Current
Kampmann Lab, Biophysics Rotation University of California, San Francisco Summary: Investigating the role of TDP-43 in protein aggregation.	Mar 2016-Jun 2016
Agard Lab, Biophysics Rotation University of California, San Francisco Summary: Using X-ray scattering interferometry to monitor HSP90's conformational ensemble.	Jan 2016-Mar 2016
Frost Lab, Biophysics Rotation University of California, San Francisco Summary: Determining the role of lipid composition on ESCRTIII's ability to induce membrane tubulation.	Sep 2015-Dec 2015
Fraser Lab, Biophysics Rotation University of California, San Francisco Summary: Optimizing micro-crystal formation for serial femtosecond crystallographic experiments.	Jun 2015-Sep 2015
Stayton Lab, Thesis Research University of Wyoming Summary: Discovery of potential mRNA biomarkers of clinical and agricultural relevance.	Jun 2012-May 2015

Teaching Experience

Teaching Assistant, PC111 University of California, San Francisco	Sep 2016-Current
Module Assistant, iPQB Bootcamp University of California, San Francisco <ul style="list-style-type: none"> ➤ Prepared & delivered lecture on experimental methods in structural biology ➤ Designed & lead structure validation activity using PyMOL software 	Sep 2016

	Teaching Assistant, General Chemistry University of Wyoming	Sep 2013-Dec 2013
	<ul style="list-style-type: none"> ➤ Supervised laboratory sections ➤ Lead discussion sections ➤ Wrote and proctored quizzes for discussion sections ➤ Proctored and graded exams ➤ Tutored students one-on-one during office hours & tutorial hours 	
	Teaching Assistant, Human Anatomy University of Wyoming	Jan 2012-Dec 2012
	<ul style="list-style-type: none"> ➤ Lead group discussions ➤ Proctored quizzes 	
Honors & Awards	University of Wyoming	
	<ul style="list-style-type: none"> ➤ Outstanding Chemistry Teaching Assistant Award ➤ Trustee's Pride Scholarship ➤ Hathaway Honors Scholarship ➤ President's Honor Roll ➤ Provost's Honor Roll ➤ Dean's Honor Roll 	<p>Apr 2014</p> <p>Aug 2009-May 2013</p> <p>Aug 2009-May 2013</p>
	Before College	
	<ul style="list-style-type: none"> ➤ People to People Student Ambassador 	Jul 2006
Conferences & Presentations	Wolff, A.M.; Thomas, D.P.; & Stayton, M.M. "Effects of Aerobic Training on Gene Expression in the Heart after a Myocardial Infarction." Oral and Poster Presentations at University of Wyoming's Undergraduate Research Days, Laramie, WY. April 27, 2013.	
Public Service	Bay Area Science Festival	Nov 2016
Occupation	Laboratory Technician, Fay Lab University of Wyoming	Mar 2013-Sep 2013
	<ul style="list-style-type: none"> ➤ Prepared media for bacteria & <i>C. elegans</i> ➤ Used autoclave to sterilize equipment and media ➤ Prepared buffers and solutions 	
References	Available upon request	