

# TARA FURSTENAU

Biodesign Institute  
Center for Evolutionary Medicine and Informatics  
Arizona State University  
Tempe, Arizona

## PERSONAL INFORMATION

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## EDUCATION

*Ph.D.* 2010- Arizona State University, Tempe  
Expected 2015 · Molecular and Cellular Biology · School of Life Sciences  
Thesis: *Evolution of Self-Incompatibility in Plant Populations*  
Advisor: Prof. Reed CARTWRIGHT

*B.S.* 2008-2010 Arizona State University, Tempe  
Bioinformatics and Genomics · School of Life Sciences  
*Magnum Cum Laude* · Dean's List

## RESEARCH EXPERIENCE

2013- Graduate Research  
Prof. REED CARTWRIGHT  
Developed simulations to investigate the evolution of self-incompatibility systems in plant populations

2010-2013 Graduate Research Assistant  
Prof. ROBERTO GAXIOLA  
Investigated the role of the proton pumping pyrophosphatase, *AVP1*, in sucrose transport in *Arabidopsis thaliana*

2009-2010 Undergraduate Student Researcher  
Prof. LEI LEI  
Neural development research using conditional knockout mice.

## PRESENTATIONS

January 2012 Workshop · Arizona State University  
Title: *The Univector Plasmid-Fusion System: A Cre-loxP recombination-based cloning method*

March 2012 Molecular and Cellular Biology Colloquium · Arizona State University  
Title: *Is the  $H^+$ -pyrophosphatase involved in the regulation of sucrose transport in plants?"*

October 2013 Molecular and Cellular Biology Colloquium · Arizona State University  
Title: *Evolution of Self-Incompatibility: Investigating the role of self-incompatibility systems in the prevention of biparental inbreeding*

October 2013 Workshop · Arizona State University  
Title: *A L<sup>A</sup>T<sub>E</sub>X Beamer Tutorial*

## POSTERS AND ABSTRACTS

May 2012 Childrens Nutritional Research Center · Houston, TX  
Meeting Abstract:  *$H^+$ -PPase AVP1 is necessary for phloem development in Arabidopsis*

July 2012 Annual Meeting of the American Society of Plant Biologists · Austin, TX  
Poster Title:  *$H^+$ -PPase AVP1 is necessary for phloem development in Arabidopsis thaliana*

August 2012 Molecular and Cellular Biology Graduate Student Retreat · Tempe, AZ  
Poster

## TEACHING EXPERIENCE

<i>Fall 2010</i>	MBB 343 · Genetic Engineering and Society · Laboratory <i>Teaching Associate · Arizona State University</i>
<i>Spring 2011</i>	BIO 181 · General Biology I · Laboratory <i>Teaching Associate · Arizona State University</i>
<i>Summer 2011</i>	BIO 182 · General Biology II · Laboratory <i>Teaching Associate · Arizona State University</i>
<i>Fall 2011</i>	BIO 340 · General Genetics · Recitation <i>Teaching Associate · Arizona State University</i>
<i>Spring 2012</i>	BIO 340 · General Genetics · Recitation <i>Teaching Associate · Arizona State University</i>
<i>Fall 2012</i>	BIO 340 · General Genetics · Recitation <i>Teaching Associate · Arizona State University</i>
<i>Spring 2013</i>	BIO 340 · General Genetics · Recitation <i>Teaching Associate · Arizona State University</i>
<i>Fall 2013</i>	PLB 108 · Concepts in Plant Biology · iCourse <i>Instructor · Arizona State University</i> <i>*Developed course materials and produced instructional videos</i>
<i>Spring 2014</i>	MBB 355 · Introduction to Computational Molecular Biology · Lecture <i>Innovative Teaching Associate · Arizona State University</i>

## SERVICE

Phosphorus Sustainability Research Coordination Network · Core Participant  
Ask a Biologist · Correspondent  
Green Labs Initiative · Coordinator/Spokesperson  
Obama Scholars · Mentor

## PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science  
American Society of Plant Biologists  
Society for the Study of Evolution  
Genetics Society of America  
Graduate Integrative Society for Environment Interdisciplinary Research  
Central Arizona Chapter of the Association for Women in Science

## PROFESSIONAL DEVELOPMENT

Next Generation Population Genomics for Nonmodel Taxa Workshop  
*American Genetics Association*

## COMPUTER SKILLS

<i>Basic</i>	JAVASCRIPT, R, C++, Perl
<i>Intermediate</i>	PYTHON, HTML, L <sup>A</sup> T <sub>E</sub> X, Linux

January 7, 2014