TARA FURSTENAU

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

PERSONAL INFORMATION

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EDUCATION

2010- Arizona State University, Tempe

Ph.D. Expected 2015 · Molecular and Cellular Biology · School of Life Sciences
Thesis: *Evolution of Self-Incompatibility in Plant Populations*
Advisor: Prof. Reed Cartwright

2008-2010 Arizona State University, Tempe

B.S 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

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*

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

April 2014 Evolution 2014 · Raleigh, NC
Poster Title: *The effect of the dispersal distribution on isolation by distance in a continuous population*

TEACHING EXPERIENCE

Fall 2010 — MBB 343 · Genetic Engineering and Society · Laboratory
Teaching Associate · Arizona State University

Spring 2011 — BIO 181 · General Biology I · Laboratory
Teaching Associate · Arizona State University

Summer 2011 — BIO 182 · General Biology II · Laboratory
Teaching Associate · Arizona State University

Fall 2011 — BIO 340 · General Genetics · Recitation
Teaching Associate · Arizona State University

Spring 2012 — BIO 340 · General Genetics · Recitation
Teaching Associate · Arizona State University

Fall 2012 — BIO 340 · General Genetics · Recitation
Teaching Associate · Arizona State University

Spring 2013 — BIO 340 · General Genetics · Recitation
Teaching Associate · Arizona State University

Fall 2013 — PLB 108 · Concepts in Plant Biology · iCourse
Instructor · Arizona State University
**Developed course materials and produced instructional videos*

Spring 2014 — MBB 355 · Introduction to Computational Molecular Biology · Lecture
Innovative Teaching Associate · Arizona State University

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

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

C++, PYTHON, R, Linux, LaTeX, HTML/CSS

July 21, 2014