CONTACT INFORMATION

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Tempe, Arizona 85287-5301

EDUCATION

Ph.D. Molecular and Cellular Biology Arizona State University Exp. 2016 Advisor: Reed Cartwright

B.S. Bioinformatics and Genomics Arizona State University 2010

magna cum laude

PUBLICATIONS

Furstenau, TN, and RA Cartwright (2015). The effect of the dispersal kernel on isolation-by-distance in a continuous population. Manuscript submitted for publication. http://arxiv.org/abs/1501.01085

Pizzio GA, Paez-Valencia J, Khadilkar AS, Regmi K, Patron-Soberano A, Zhang S, Sanchez-Lares J, **Furstenau T**, Li J, Sanchez-Gomez C, Valencia-Mayoral P, Yadav UP, Ayre BG and RA Gaxiola (2015). *Arabidopsis* proton-pumping pyrophosphatase *AVP1* expresses strongly in phloem where it is required for PPi metabolism and photosynthate partitioning. *Plant Physiology*. Advance online publication. doi:10.1104/pp.114.254342

PRESENTATIONS

Talks

- 2015 Bayesian estimation of neighborhood size using composite marginal likelihoods Society for Molecular Biology and Evolution · Vienna, Austria
- 2015 Bayesian estimation of neighborhood size using composite marginal likelihoods Molecular and Cellular Biology Colloquium · The Biodesign Institute
- 2014 Evolution of Self-Incompatibility: Investigating the role of self-incompatibility systems in the prevention of biparental inbreeding.

 Molecular and Cellular Biology Colloquium · The Biodesign Institute
- 2013 Evolution of Self-Incompatibility: Investigating the role of self-incompatibility systems in the prevention of biparental inbreeding
 - Molecular and Cellular Biology Colloquium · Arizona State University
- 2012 *Is the H*⁺-pyrophosphatase involved in the regulation of sucrose transport in plants? Molecular and Cellular Biology Colloquium · Arizona State University

Posters and Abstracts

2014	The effect of the dispersal distribution on isolation-by-distance in a continuous population
	Society for the Study of Evolution · Raleigh, NC

- 2014 Characterization of Transgenic Arabidopsis thaliana overexpressing AVP1 and PLAFP Undergraduate Research Poster Symposium · Arizona State University · Tempe, AZ Presented by Sean Wilson (undergraduate mentee)
- 2012 H^+ -PPase AVP1 is necessary for phloem development in Arabidopsis thaliana Molecular and Cellular Biology Graduate Student Retreat · Tempe, AZ
- 2012 H^+ -PPase AVP1 is necessary for phloem development in Arabidopsis thaliana American Society of Plant Biologists · Austin, TX

RESEARCH EXPERIENCE

2013-Present	Graduate Student with Reed Cartwright Center for Human and Comparative Genomics The Biodesign Institute
	Arizona State University · Tempe, AZ
2010-2013	Research Assistant with Roberto Gaxiola
	School of Life Science
	Arizona State University · Tempe, AZ
2009-2010	Undergraduate Student Researcher with Lei Lei
	School of Life Science
	Arizona State University · Tempe, AZ

TEACHING EXPERIENCE

Arizona State University

Courses:		
2014	General Genetics	Head TA
2014	Introduction to Computational Molecular Biology	Innovative TA
2013	Concepts in Plant Biology iCourse	Instructor
2011-2015	General Genetics	Teaching Associate
2011	General Biology I & 2 Laboratory	Teaching Associate
2010	Genetic Engineering and Society Laboratory	Teaching Associate

Undergraduate Mentorship:

2011-2013 Honors Thesis Mentor · Sean Wilson

Wilson S, Furstenau T, and R Gaxiola. Characterization of Transgenic *Arabidopsis thaliana* Overexpressing a Type I H⁺ Pyrophosphatase and the Phloem Lipid-Associated Family Protein. http://hdl.handle.net/2286/R.I.23607

SERVICE

2010-present	Ask-A-Biologist Volunteer Corespondent
2011-2013	Green Labs Initiative Coordinator and Promoter
2012-2013	Phosphorus Sustainability Research Coordination Network Core Participant
2011-2012	Obama Scholars Mentor

SOCIETY MEMBERSHIPS

Society for the Study of Evolution Society for Molecular Biology and Evolution Graduate Integrative Society for Environmental Interdisciplinary Research Central Arizona Chapter of the Association for Women in Science

PROFESSIONAL DEVELOPMENT

2013	Next Generation Population Genomics for Non-model Taxa Workshop
	American Genetics Association · Cornell University · Ithica, NY
2011	Univector Plasmid-Fusion System training with Kendal Hirschi
	Childrens Nutritional Research Center · Baylor College of Medicine · Houston, TX

PROGRAMMING LANGUAGES

C++, PYTHON, R, BASH, LATEX, HTML/CSS, OPENBUGS, MATHEMATICA