CONTACT INFORMATION

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RESEARCH EXPERIENCE

2016-Present	Postdoctoral Scholar with Viacheslav Fofanov School of Informatics, Computing, and Cyber Systems Northern Arizona University · Flagstaff, AZ
2013-2016	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

EDUCATION

Ph.D.	Molecular and Cellular Biology	Arizona State University	2016
	Advisor: Reed Cartwright		
B.S.	Bioinformatics and Genomics	Arizona State University	2010
	magna cum laude		

PUBLICATIONS

Furstenau, TN, and RA Cartwright (2016). The effect of the dispersal kernel on isolation-by-distance in a continuous population. *PeerJ* 4:e1848. doi:10.7717/peerj.1848

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* **167**:1541-1553. doi:10.1104/pp.114.254342

PRESENTATIONS

Talks

Bayesian estimation of neighborhood size using composite marginal likelihoods 2015 Society for Molecular Biology and Evolution · Vienna, Austria Bayesian estimation of neighborhood size using composite marginal likelihoods 2015 Molecular and Cellular Biology Colloquium · The Biodesign Institute Evolution of Self-Incompatibility: Investigating the role of self-incompatibility systems in 2014 the prevention of biparental inbreeding. Molecular and Cellular Biology Colloquium · The Biodesign Institute Evolution of Self-Incompatibility: Investigating the role of self-incompatibility systems in 2013 the prevention of biparental inbreeding Molecular and Cellular Biology Colloquium · Arizona State University *Is the* H^+ -pyrophosphatase involved in the regulation of sucrose transport in plants? 2012

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)

Molecular and Cellular Biology Colloquium · Arizona State University

- 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

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

AWARDS

2015	ASU	Graduate Education Travel Award
2015	ASU	School of Life Sciences Travel Award

SERVICE AND OUTREACH

2016-present	Software Carpentry Certified Instructor
2015	Molecular and Cellular Biology and Microbiology Retreat Poster Judge
2015	Software Carpentry Workshop Helper
2015	Night of the Open Door Volunteer
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