

Zhian N. Kamvar

Curriculum Vitae

Education

2011-Present Ph. D. Botany and Plant Pathology, Oregon State University, Corvallis, OR.

Expected 2017

2003–2007 Bachelor of Science Biology, Truman State University, Kirksville, MO.

Minor: Chemistry

Experience

Vocational

2012-Present **Graduate Research Assistant**, *Grünwald Lab*, Corvallis, OR.

Utilizing population genomic tools to analyze patterns of differentiation in populations of the plant pathogen *Phytophthora syringae* in Oregon Nurseries.

Details:

- o Designed simulation analyses for populations of partially clonal diploids
- Authored R package for genetic analysis with mixed (sexual/clonal) reproduction (https://github.com/grunwaldlab/poppr)
- o Isolated, maintained, and extracted DNA from cultures of Phytophthora syringae
- o Research Advisor: Dr. Niklaus J. Grünwald

Miscellaneous

Awards

2014 Most Innovative Program – Intercollegiate Broadcasting System

Computer skills

Basic BASH, Inkscape

Intermediate PYTHON, PERL, C, LaTeX, OpenOffice, Linux, OSX

Advanced R

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Lab Skills

Sterile Technique, DNA extraction, GBS library prep

Presentations

2013/11/21 Oral Presentation, Department of Botany and Plant Pathology, Oregon State University.

> Determination of pattern and process in the evolution of the plant pathogen Phytophthora syringae

2013/05/02 Oral Presentation, Biology Graduate Student Symposium, Hatfield Marine Science Center, Newport, OR.

Poppr: An R package for genetic analysis of populations with mixed (clonal/sexual) reproduction

Languages

English Mothertongue

Korean Intermediate

Can manage basic conversation

Extracurricular

2012-Present Radio Co-host, Inspiration Dissemination, KBVR, Corvallis.

Co-created, produced, and hosted a weekly radio show interviewing graudate students in STEM fields about their research and experiences in graudate school.

Details:

- Provided opportunity for graduate students a unique form of outreach.
- o Facilitated edcuation of media students by providing audio editing opportunities post producing recorded episodes.
- Actively worked with graduate students to improve their science communication skills.

2012-Present Treasurer, Graduate Student Assosication, Department of Botany and Plant Pathology, Oregon State University.

> Blanced the budget, served on bi-annual travel awards committee, helped organize and coordinate group social functions.

2012-Present **Active Contributor**, *Bioinformatics Users Group*, Oregon State University.

Contributed presentations and discussions relevant to use of bioinformatics tools.

Publications

- Kamvar ZN, Tabima JF, Grünwald NJ. (2014) Poppr: an R package for genetic analysis of populations with clonal, partially clonal, and/or sexual reproduction. PeerJ 2: e281 http://dx. doi.org/10.7717/peerj.281
- o Buckner B, Beck J, Browning, K, Hoxha E, Grantham L, Kamvar Z, Lough A, Nikolova O, and Schnable PS, Scanlon MJ, and Janick-Buckner D. (2007) Involving undergraduates in the annotation and analysis of global gene expression studies: creation of a maize shoot apical meristem expression database. Genetics 176: 741-747