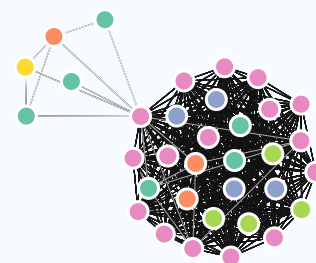


ALEX RAJEWSKI

A bioinformatician working in human cancer genetics but with training also in plant genetics and evolution. I am an excellent science communicator to both [public](#) and [professional](#) audiences.



EDUCATION

- PhD. Candidate, Plant Biology**
University of California
Riverside, CA
• Dissertation: Gene Evolution in Solanaceae
Dec 2020 | 2015
- MS: Horticulture**
University of Georgia
Athens, GA
• Thesis: Micropropagation and Evaluation of the Genetic Population Structure of River Cane (*Arundinaria gigantea*)
2015 | 2013
- BS: Biochemistry, Cell, and Molecular Biology**
Drake University
Des Moines, IA
2010 | 2006

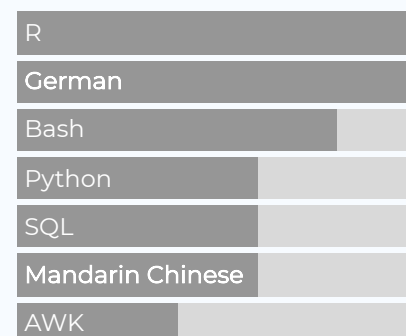
WORK EXPERIENCE

- Research Bioinformatician II**
AGCT Core
Cedars-Sinai Hospital
current | 2021
- Research Assistant**
Dept of Botany and Plant Science
University of California
• Created and characterized CRISPR mutants for a trait validation project
• Sequenced, assembled, and functionally annotated the genome of *Datura stramonium*
• Eugene V. Cota-Robles Fellow
• Graduate Assistance in Areas of National Need (GAANN) Fellow
2020 | 2015
- Research Assistant**
Dept of Horticulture
University of Georgia
• Planned and executed field studies at 3 sites both public and private
• Established collaborations with researchers at 5 institutions
• University-Wide Graduate Assistantship recipient
2015 | 2013
- Research Intern**
Universität Rostock
Rostock, Germany
• Developed plant transformation methods in lupine, pea, tobacco, and potato
• Investigate transgenic vaccine peptides
• Congress-Bundestag Youth Exchange Fellow
July 2012 | Jan 2012

CONTACT

- ✉ AlexCRajewski@gmail.com
- 🐦 [Rajewski](#)
- 🔗 github.com/rajewski
- 🔗 rajewski.github.io
- in [in/alexrajewski](#)

LANGUAGE SKILLS



The source code
for this CV is available
[on github.com/rajewski/resume](https://github.com/rajewski/resume).

- 2011
|
2010
 - **Research Assistant**
Pioneer Hi-Bred (Corteva) 📍 Johnston, IA
 - Developed SQL database to integrate phenotypic and genotypic measurements
- Aug 2009
|
May 2009
 - **Research Intern**
North Carolina State University 📍 Raleigh, NC
 - Validated viral protein production in novel hosts
 - NSF Research Experience for Undergraduates (REU) Program

I have developed diverse skills including NGS data analysis, phylogenetics, R, population genetics, and Git.



TEACHING EXPERIENCE

- 2019
 - **Tools for building highly customized figures**
Botany Conference 📍 Tucson, AZ
 - Co-taught a workshop using base R graphics for data presentation
- 2019
 - **Making Your Work Environment LGBTQ+ Welcoming and Affirming**
Plant Biology Conference 📍 San Jose, CA
 - Hosted a panel discussion on LGBTQ+ representation and workplace issues
 - Recruited speakers from both academia and industry
- 2018
 - **California's Cornucopia (TA)**
UCR Dept of Botany and Plant Science 📍 Riverside, CA
 - Led discussion sections for 120 students
 - Introductory, non-major course
- 2016
 - **Foundations of Plant Biology (TA)**
UCR Dept of Botany and Plant Science 📍 Riverside, CA
 - Designed and led lab sections for 80 students
 - Broad, upper-division course



PEER-REVIEWED PUBLICATIONS

- 2020
 - **Datura Genome Reveals Duplications of Psychoactive Alkaloid Biosynthetic Genes and High Mutation Rate Following Tissue Culture**
BMC Genomics (in review)
Alex Rajewski, Derreck Carter-House, Jason Stajich, and Amy Litt
- 2019
 - ***in Vitro* Plant Regeneration and Agrobacterium tumefaciens-mediated Transformation of Datura stramonium**
Applications in Plant Science
Alex Rajewski, Kevan Elkins, Ashley Henry, Joyce Van Eck, and Amy Litt
- 2019
 - **Evolution and Diversification of *FRUITFULL* Genes in Solanaceae**
Frontiers in Plant Science
Dinusha Maheepala, Chris Emerling, Alex Rajewski, Jenna Macon, Maya Stahl, Natalia Pabón-Mora, and Amy Litt

I have two first-author publications and have also collaborated on two more.

- 2018 ● **Classification and phylogenetic analyses of the Arabidopsis and tomato G-type lectin receptor kinases**
BMC Genomics
Marcella A. Teixeira, Alex Rajewski, Jiangman He, Olenka G. Castaneda, Amy Litt, and Isgouhi Kaloshian



ORAL AND POSTER PRESENTATIONS

- 2020 ● **Multispecies fruit transcriptomes highlight divergence across developmental and evolutionary time**
Oral presentation ● Botany Conference
- 2019 ● **Hybrid Origin of Bamboo Population Inferred from Haplotype-Phased Amplicon sequencing**
Southern California Evolutionary Genetics and Genomics Meeting
● Oral presentation
- 2019 ● **Identification of Conserved Regulatory Modules in Dry and Fleshy Fruit Development**
Oral presentation ● Botany Conference
- 2017 ● **There and Back Again: When Evolution Reverses**
Three-Minute Thesis Competition ● American Society for Horticultural Science (ASHS) Conference
• 3rd Place Award
- 2017 ● **Optimizing Tissue Culture Methods in Diverse Nightshade Species**
Poster Presentation ● ASHS Conference
- 2017 ● **Developmental Transcriptome of *Nicotiana obtusifolia***
Poster Presentation ● UC Riverside CEPCEB Post-Doc Symposium
- 2016 ● **Optimizing Tissue Culture Methods in Diverse Solanaceae Species**
Poster Presentation ● Solanaceae Conference
- 2016 ● **Evidence of Interspecific Hybridization or Incomplete Lineage Sorting in River Cane (*Arundinaria gigantea*)**
Oral presentation ● ASHS Conference
- 2016 ● **A Family Divided: Evolution of Dry and Fleshy Fruit in Nightshades**
Three-Minute Thesis Competition ● ASHS Conference
• 1st Place Award
- 2016 ● **Role of *FRUITFULL* in the Evolution of Fleshy Fruits: Optimizing Solanaceae Tissue Culture to Generate Stable Transgenic Knockout Lines**
Oral presentation ● Botany Conference
- 2015 ● ***In Vitro* Comparison of Benzyladenine and *meta*-Topolin on Shoot Proliferation of River Cane, a Candidate for Wetlands Restoration**
Poster Presentation ● ASHS Conference

I am an excellent science communicator with several awards for public speaking at national scientific conferences.

- 2015 ● **Raising Cane: Sustainable Bamboo Restoration in the American Southeast**
 Three-Minute Thesis Competition 📍 ASHS Conferencee
University of Georgia
 • 1st Place Award at ASHS
 • Top 10 at UGA
- 2015 ● **Clonal Structure, Genetic Diversity, and *in vitro* Propagation of River Cane (*Arundinaria gigantea*), a candidate for use in wetlands reclamation**
 Oral presentation 📍 Southern Region ASHS Conference
- 2014 ● **Disinfestation and *in vitro* Growth and Development of *Arundinaria***
 Oral presentation 📍 UGA Interdisciplinary
Graduate Plant and Soil Symposium
 • 1st Place Award (Masters Category)
- 2014 ● **Sterilization and *in vitro* Growth and Development of *Arundinaria***
 Poster Presentation 📍 Southern Region of North America
International Plant Propagators Society Conference
- 2009 ● **Comparison of the Symptoms Caused by Three Geminiviruses in a Common Host**
 Poster Presentation
📍 NCSU Summer Undergraduate Research Symposium
 Drake University Conference on Undergraduate Research in the Sciences