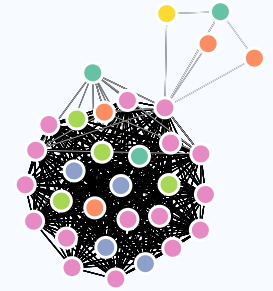


ALEX RAJEWSKI

A molecular biologist and bioinformatician focusing on plant genetics and evolution. I am an excellent science communicator to both [public](#) and [professional](#) audiences.

I am currently looking for industry positions that will allow me to develop my coding and genomics skills on real-world applications.



EDUCATION

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

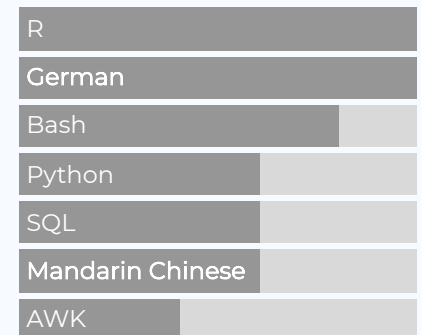
RESEARCH EXPERIENCE

- Research Assistant**
Dept of Botany and Plant Science
University of California
2020 | 2015
• 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
- Research Assistant**
Dept of Horticulture
University of Georgia
2015 | 2013
• Planned and executed field studies at 3 sites both public and private
• Established collaborations with researchers at 5 institutions
• University-Wide Graduate Assistantship recipient
- Research Intern**
Universität Rostock
Rostock, Germany
July 2012 | Jan 2012
• Developed plant transformation methods in lupine, pea, tobacco, and potato
• Investigate transgenic vaccine peptides
• Congress-Bundestag Youth Exchange Fellow

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.

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 library prep and data analysis, phylogenetics, R, population genetics, and Git.



INDUSTRY EXPERIENCE

2011
|
2010



Research Assistant

Pioneer Hi-Bred (Corteva)

📍 Johnston, IA

- Developed SQL database to integrate phenotypic and genotypic measurements



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 (submitted)

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

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

- 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
- 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

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

- 2015 ● ***In Vitro* Comparison of Benzyladenine and *meta*-Topolin on Shoot Proliferation of River Cane, a Candidate for Wetlands Restoration**
Poster Presentation 📍 ASHS Conference
- 2015 ● **Raising Cane: Sustainable Bamboo Restoration in the American Southeast**
Three-Minute Thesis Competition 📍 ASHS Conference
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