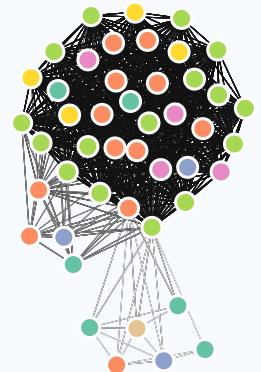


ALEX RAJEWSKI

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

- | | | |
|-----------------------|---|------------------|
| Dec 2020

2015 | ● PhD Plant Biology
University of California | 📍 Riverside, CA |
| 2015

2013 | ● MS Horticulture
University of Georgia | 📍 Athens, GA |
| | • Thesis: Micropropagation and Evaluation of the Genetic Population Structure of River Cane (<i>Arundinaria gigantea</i>) | |
| 2010

2006 | ● BS Biochemistry, Cell, and Molecular Biology
Drake University | 📍 Des Moines, IA |

WORK EXPERIENCE

- | | | |
|----------------------|---|----------------------------|
| current

2021 | ● Research Bioinformatician II
Cedars-Sinai Hospital | 📍 Los Angeles, CA |
| | • Applied Genomics, Computation, & Translational Core | |
| 2020

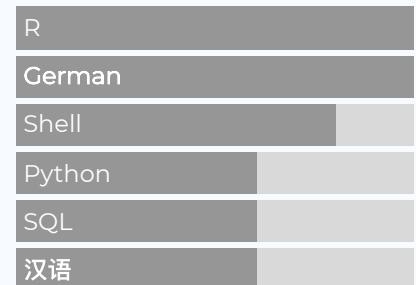
2015 | ● Research Assistant
Dept of Botany and Plant Science | 📍 University of California |
| | • Created and characterized CRISPR mutants for a trait validation project | |
| | • Sequenced, assembled, and functionally annotated the genome of <i>Datura stramonium</i> | |
| | • Eugene V. Cota-Robles Fellow | |
| | • Graduate Assistance in Areas of National Need (GAANN) Fellow | |
| 2015

2013 | ● 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 | |

CONTACT

- ✉ AlexCRajewski@gmail.com
- /github/ github.com/rajewski
- / rajewski.github.io
- /in/ [in/alexrajewski](https://www.linkedin.com/in/alexrajewski)
- / [@Rajewski](https://twitter.com/Rajewski)

LANGUAGE SKILLS



The source code is available on github.com/rajewski/resume.

2012
|
2011

- **Congress-Bundestag Fellow & Research Intern**
Universität Rostock 📍 Germany
 - Developed plant transformation methods in lupine, pea, tobacco, and potato
 - Investigate transgenic vaccine peptides
 - Congress-Bundestag Youth Exchange for Young Professionals Fellow
 - Achieved professional fluency in German
- **Research Assistant**
Pioneer Hi-Bred (Corteva) 📍 Johnston, IA
 - Developed SQL database to integrate phenotypic and genotypic measurements
- **Research Intern**
North Carolina State University 📍 Raleigh, NC
 - Validated viral protein production in novel hosts
 - NSF Research Experience for Undergraduates (REU) Program

2011
|
2010

Aug
2009
|
May
2009

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



TEACHING EXPERIENCE

- **Tools for building highly customized figures**
Botany Conference 📍 Tucson, AZ
 - Co-taught a workshop using base R graphics for data presentation
- **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
- **California's Cornucopia (TA)**
UCR Dept of Botany and Plant Science 📍 Riverside, CA
 - Led discussion sections for 120 students
 - Introductory, non-major course
- **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

- **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

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

- 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
- 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

OUTREACH

- current | 2010 ● **Extension Master Gardener** Cooperative Extension  California, Iowa, Kansas, Georgia
- current | 2018 ● **Big Brother** Big Brothers Big Sisters of the Inland Empire  Riverside, CA
- 2020 | 2016 ● **Community OUTreach Educator** LGBT Resource Center  University of California
- 2020 | 2017 ● **Mentor** Planting Science  Botanical Society
- 2018 | 2017 ● **President** Queer (LGBT) Graduate Student Association  University of California
- 2018 | 2017 ● **Academic Affairs Officer**  University of California
- 2018 | 2017 ● **Secretary** Botany Grad Student Assoc.  University of California
- 2018 | 2016 ● **Mentor** Grad Student Mentorship Program  University of California
- 2017 | 2016 ● **Member** Member Services Taskforce  American Society for Horticultural Science (ASHS) Conference
- 2016 | 2014 ● **Chair** Grad Student Working Group  American Society for Horticultural Science (ASHS) Conference
- 2015 | 2013 ● **Vice President** Horticulture Grad STudent Assoc.  University of Georgia

2010
I
2009

- President
Beta Beta Beta

📍 Drake University

ORAL AND POSTER PRESENTATIONS

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

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
• 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
- 2014
- **Disinfestation and *in vitro* Growth and Development of *Arundinaria***
Oral presentation
• 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