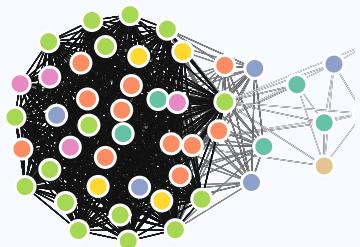


ALEX RAJEWSKI

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

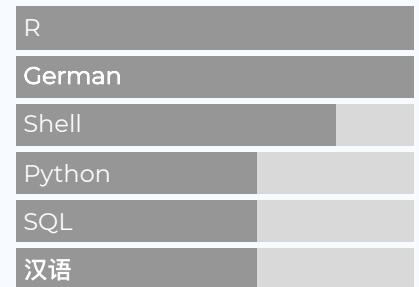
WORK EXPERIENCE

- current | 2021 ● **Research Bioinformatician II**
Cedars-Sinai Hospital
• Applied Genomics, Computation, & Translational Core
📍 Los Angeles, CA
- 2020 | 2015 ● **Research Assistant**
Dept of Botany and Plant Science
• 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
📍 University of California

CONTACT

- ✉ AlexCRajewski@gmail.com
- /github.com/rajewski
- rajewski.github.io
- [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 (<https://github.com/rajewski/resume>).

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

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

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

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

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

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
- 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 2009	● President Beta Beta Beta	📍 Drake University

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 <i>Nicotiana obtusifolia</i> 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 (<i>Arundinaria gigantea</i>) 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 <i>FRUITFULL</i> 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 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