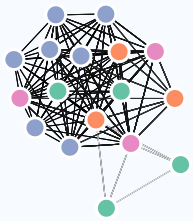
# ALEX RAJEWSKI

Experienced bioinformatician with extensive experience in oncology, drug screening, single-cell sequencing, spatial transcriptomics, epigenetics, genome assembly, and phylogenetics. Also skilled in pipeline development, include Nextflow, Docker, Singularity, and Git. I am an excellent science communicator to both public and professional audiences.



## EDUCATION

2020 — **PhD Bioinformatics & Plant Biology**
University of California, Riverside

2015 — **MS Horticulture**
University of Georgia

2010 — **BS Biochemistry, Cell, and Molecular Biology**
Drake University

## WORK EXPERIENCE

current | 2022 — **Bioinformatics Scientist**
SEngine Precision Medicine

- Development of high-throughput drug screening analysis pipelines in R
- Consultation on experimental design and statistical analysis

2022 | 2021 — **Research Bioinformatician II**
Cedars-Sinai Genomics Core

- Advanced analysis of single-cell RNA-seq, spatial transcriptomics, WES/WGS, CUT&Tag, ATAC-seq
- Pipeline development with Nextflow, Docker, and Git

2012 | 2011 — **Congress-Bundestag Fellow & Research Intern**
Universität Rostock

- Vaccine production in transgenic plants
- Developed plant transformation methods in lupine, pea, tobacco, and potato

2011 | 2010 — **Research Assistant**
Pioneer Hi-Bred (Corteva)

- Developed SQL database to integrate phenotypic and genotypic measurements

## CONTACT


AlexCRajewski@gmail.com
github.com/rajewski
rajewski.github.io
in/alexrajewski
Rajewski


## LANGUAGE SKILLS

- R
- German
- Docker/Singularity
- Shell
- Nextflow
- Python
- SQL
- 汉语

Aug 2009 | May 2009

**NSF Research Intern**

North Carolina State University

• Validated viral protein production in novel hosts

## PEER-REVIEWED PUBLICATIONS

2022

**Multispecies Transcriptomes Reveal Core Fruit Development Genes**

Frontiers in Plant Science
**Alex Rajewski**, Dinusha Maheepala, Jessica Le, Amy Litt

2022

**SOX9 switch orchestrates dynamic Wnt niches and kidney myofibroblast activity**

Cell (In Review)
Z. Wang; S. Aggarwal; **A. Rajewski**; M.K. Bhasin; K. Suresh; M. Yamashita; H. Akiyama; S.A.Karumanchi; S.C. Jordan; P.W. Noble; P.E. Cippà; S. Kumar.

2022

**Cell therapy attenuates endothelial dysfunction in hypertensive rats with heart failure and preserved ejection fraction**

Heart and Circulatory Physiology
G. de Couto, T. Mesquita, X. Wu, **A. Rajewski,** F. Huang, A. Akhmerov, N. Na, D. Wu, Y. Wang, L. Li, M. Tran, P. Kilfoil, E. Cingolani, E. Marbán

2021

**Datura Genome Reveals Duplications of Psychoactive Alkaloid Biosynthetic Genes and High Mutation Rate Following Tissue Culture**

BMC Genomics
**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