# 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.
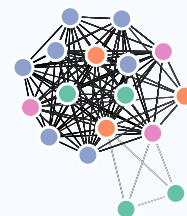
🎓 EDUCATION

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

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🐙 github.com/rajewski
🔗 rajewski.github.io
in 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