# ALEX RAJEWSKI

Experienced bioinformatics data scientist with experience in oncology, drug design, single-cell sequencing, spatial transcriptomics, epigenetics, genome assembly, and phylogenetics. Also skilled in pipeline development, including Nextflow, Docker, Singularity, and Git. I am an excellent science communicator to both public and professional audiences.
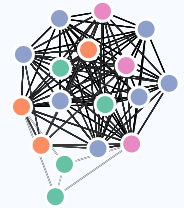
🖥 WORK EXPERIENCE

current | 2022

Sr. 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

Aug 2009 | May 2009

NSF Research Intern
North Carolina State University

· Validated viral protein production in novel hosts

🎓 EDUCATION

2020

PhD Bioinformatics & Plant Biology
University of California, Riverside

· Genome assembly/annotation, RNA-seq, phylogenetics, high-throughput CRISPR screening
· NGS library prep, PCR, tissue culture, in situ hybridization, microscopy

CONTACT

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

LANGUAGE SKILLS

R
German
Docker/Singularity
Shell
Nextflow
Python
SQL
汉语

2015 ● MS Horticulture

University of Georgia

· Population genetics, Microsatellites/SSR, phylogenetics

2010 ● BS Biochemistry, Cell, and Molecular Biology

Drake University

SELECTED PUBLICATIONS

2023 ● Stacking the odds: Multiple sites for HSV-1 latency

Science Advances.
Shaohui Wang, Xueying Song, **Alex Rajewski**, Chintda Santiskulvong, and Homayon Ghiasi

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

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