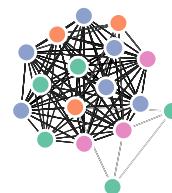


ALEX RAJEWSKI

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

2023

Senior Computational Biologist

[Tempus AI](#)

2023

2022

Bioinformatics Scientist

[Tempus AI](#) (fmr. 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](https://www.linkedin.com/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

- 2024 **SOX9 switch links regeneration to fibrosis at the single-cell level in mammalian kidneys**
Science
S. Aggarwal; Z. Wang; D Rincon Fernandez Pacheco; A Rinaldi; **A. Rajewski**; J. Callemeyn; E. Van Loon; B. Lamarthée; A. Ester Covarrubias; Jean Hou et al.
- 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 **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
- 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