

CEDAR WARMAN

COMPUTATIONAL BIOLOGIST | GENOMICS | CLOUD COMPUTING
WWW.CEDARWARMAN.COM

SUMMARY

I am a computational biologist and data scientist with 8+ years of research experience. I specialize in building new genomics and phenomics systems in the cloud to study unsolved biological problems at scale.

SKILLS

- Genomics (RNAseq, Salmon, STAR, DESeq2, GATK, R)
- Phenomics (custom hardware, Raspberry Pi, embedded sensors, R Shiny web apps)
- Computer vision (Python, TensorFlow, OpenCV, Labelbox, Roboflow)
- Pipelines (Nextflow)
- HPC and cloud-native computing (GCP, Slurm, Singularity, Docker)

CONTACT



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SELECTED EXPERIENCE

COMPUTATIONAL BIOLOGIST • OHALO GENETICS 2024-03 – PRESENT

- Manage computational infrastructure projects at rapidly growing plant science startup
- Develop new tools to solve challenging scientific problems
- Implement best practices for software development and data lifecycles

RESEARCH SCIENTIST • UNIVERSITY OF ARIZONA 2020-08 – 2024-02

- Studied plant responses to heat stress using high-throughput phenotyping and genomic approaches
- Created and ran computer vision and RNAseq pipelines
- Managed team of 5 student researchers to collect and analyze phenomic data on a large scale with custom hardware and web apps
- Awarded \$216,000 National Science Foundation Postdoctoral Fellowship for research project

RESEARCHER • OREGON STATE UNIVERSITY 2015-09 – 2020-07

- Investigated molecular mechanisms of plant reproduction using combination of wet-lab and bioinformatics techniques
- Built novel maize phenotyping system and computer vision pipeline patented by Oregon State University
- Increased lab's phenotyping throughput by 10x over previous methods
- Published 5 peer-reviewed research papers and presented work at 8 conference talks

EDUCATION

PHD BOTANY • 2020 • OREGON STATE UNIVERSITY

BS BIOLOGY/ENGLISH • 2010 • BOSTON COLLEGE