

Christopher J. Fiscus, PhD

Bioinformatics Scientist
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Summary

Research scientist with extensive experience in bioinformatics and computational biology, specializing in analysis of next-generation sequencing data using high-performance computing systems. Proven track record of driving scientific research projects as part of a cross-functional team. Expert communicator with ability to translate technical information for diverse stakeholders.

Professional Experience

Postdoctoral Researcher

University of California, Irvine

09/2022 - Present
Irvine, CA

- Leading computational biology-based research projects studying wild grape genomics
- Team lead for Pan-Structural Variation Hackathon in the Cloud (hosted by Baylor College of Medicine)
- Organized Southern California Evolutionary Genetics and Genomics Meeting (~100 attendees)

Graduate Student Researcher

University of California, Riverside

09/2016 - 09/2022
Riverside, CA

- Led 3 scientific research projects resulting in 3 publications and 8 conference presentations (2 talks, 6 posters)
- Demonstrated leadership and project management skills by individually mentoring 5 direct reports
- Taught discussion sections for 4 college-level courses in genomics and bioinformatics (3X) and genetics (1X)

Quality Control Laboratory Technician

Charles Krug Winery

12/2015 - 08/2016
St. Helena, CA

- Performed enology laboratory tests throughout production to ensure legal compliance and quality standards
- Developed 5 SOPs for quality control laboratory assays
- Identified, troubleshoot, and addressed product quality issues in collaboration with production team

Harvest Laboratory Technician

Charles Krug Winery (via Apex Life Sciences)

08/2015 - 12/2015
St. Helena, CA

- Conducted enology laboratory analyses and sensory evaluations supporting all stages of the winemaking process
- Maintained strict adherence to SOPs and contributed to quality assurance initiatives
- Managed sample collection, bench trials, and blending experiments to optimize product characteristics

Skills

- **General** - data analysis & visualization, problem-solving, statistics, statistical programming
- **Programming** - R, bash, python
- **Bioinformatics** - NGS data analysis, SNP calling, GWAS, bwa, GATK, samtools/bcftools, bedtools, plink
- **Computing** - Unix command line, SLURM (HPC), conda, git (version control), snakemake (workflow)

Education

Ph.D. Genetics, Genomics and Bioinformatics

2022

University of California, Riverside

B.S. Biotechnology

2015

University of California, Davis

Certifications

AWS Cloud Technical Essentials

11/2023

Coursera

Publications 0000-0001-9569-1809

Fiscus CJ, Herniter IA, Tchamba M, Paliwal R, Muñoz-Amatriaín M, Roberts PA, Abberton M, Alaba O, Close TJ, Oyatomi O, Koenig D. The pattern of genetic variability in a core collection of 2,021 cowpea accessions. *G3*. 2024. doi:10.1093/g3journal/jkae071

Landis JB, Guercio AM, Brown KE, **Fiscus CJ**, Morrell PL, Koenig D. Natural selection drives emergent genetic homogeneity in a century-scale experiment with barley. *bioRxiv*. 2023. p. 2023.09.22.557807. doi:10.1101/2023.09.22.557807

Martinez SE, Conn CE, Guercio AM, Sepulveda C, **Fiscus CJ**, Koenig D, Shabek N, Nelson DC. A KARRIKIN INSENSITIVE2 paralog in lettuce mediates highly sensitive germination responses to karrikinolide. *Plant Physiol*. 2022. doi:10.1093/plphys/kiac328