Christopher J. Fiscus, PhD

Bioinformatics Scientist
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Summary

Research scientist with experience in computational biology and bioinformatics, especially with 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 2022 - Present
University of California, Irvine Irvine, CA

- Executing scientific research projects studying wild grape genomics
- Organized Southern California Evolutionary Genetics and Genomics Meeting (~100 attendees)
- Communicated project progress to stakeholders as evidenced by 2 oral presentations

Graduate Student Researcher 2016 - 2022
University of California, Riverside Riverside, CA

- Led 3 computational biology research projects resulting in 2 publications, 1 oral presentation, and 4 poster presentations
- Demonstrated leadership and project management skills by mentoring 5 direct reports
- Taught discussion sections for 4 college-level courses in genomics and bioinformatics (3X) and genetics (1X)

Quality Control Laboratory Technician 2015 - 2016
Charles Krug Winery St. Helena, CA

- Conducted enology laboratory tests at all stages of production to ensure compliance with legal and product quality specifications
- Developed 5 SOPs for quality control laboratory assays
- Promoted from Harvest Laboratory Technician role within 6 months

Skills

- **General** - data analysis and visualization, problem-solving, statistical programming, communication
- **Programming** - R, python, bash
- **Bioinformatics** - NGS analysis: bwa, GATK, samtools, bedtools, plink
- **Computing** - Unix, SLURM, 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

Publications 0000-0001-9569-1809

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