Christopher J. Fiscus, PhD @fiscusci cifiscus.github.io Department of Ecology and Evolutionary Biology cjfiscus University of California, Irvine in fiscusci **Education** Ph.D. Genetics, Genomics and Bioinformatics, University of California, Riverside 2022 Dissertation: Causes and consequences of plant genome evolution Advisor: Dr. Daniel Koenig B.S. Biotechnology, University of California, Davis 2015 **Professional Experience** 09/2022 - Present Postdoctoral Scholar, University of California, Irvine Dept of Ecology and Evolutionary Biology Advisor: Dr. Brandon Gaut Graduate Student Researcher, University of California, Riverside 09/2016 - 09/2022 Dept of Botany and Plant Sciences Advisor: Dr. Daniel Koenig Quality Control Laboratory Technician, Charles Krug Winery 12/2015 - 08/2016 Harvest Laboratory Technician, Charles Krug Winery (via Apex Life Sciences) 08/2015 - 12/2015 01/2014 - 10/2014 Undergraduate Researcher, University of California, Davis Advisor: Dr. Jeffrey Ross-Ibarra Undergraduate Intern, University of California, Davis 03/2012 - 06/2012 Advisor: Dr. Kent J. Bradford **Teaching Experience** Guest Lecturer, University of California, Riverside BIOL 119. Introduction to Genomics and Bioinformatics. 02/2020 Lecture: Genomics, Phenotype and Disease. Teaching Assistant, University of California, Riverside BIOL 119. Introduction to Genomics and Bioinformatics 01-03/2019, 01-03/2020, 01-03/2021 BIOL 102. Introductory Genetics 01-03/2018 Community Education Instructor, Modesto Junior College Science Camp 06-08/2013, 06-08/2014 Community Education Assistant Instructor, Modesto Junior College

06-08/2012, 06-08/2013, 06-08/2014

06-08/2013, 06-08/2014

06-08/2014

Introductory LEGO Mindstorms NXT Robotics

Advanced LEGO Mindstorms NXT Robotics

Video Game Programming for Kids

Publications © 0000-0001-9569-1809

Preprints

Fiscus CJ, Aguirre-Liguori JA, Gaut GRJ, Gaut BS. Climate, population size, and dispersal influences mutational load across the landscape in *Vitis arizonica*. bioRxiv. 2024. p. 2024.08.22.609253. doi:10.1101/2024.08.22.609253

In press

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. Science. 2024;385: eadl0038. doi:10.1126/science.adl0038

Deb SK, Kalra D, Kubica J, Stricker E, Truong VQ, Zeng Q, **Fiscus CJ**, [41 authors], Sedlazeck FJ, Busby B. The fifth international hackathon for developing computational cloud-based tools and resources for pan-structural variation and genomics. F1000Res. 2024;13: 708. doi:10.12688/f1000research.148237.1

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

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

Selected Presentations

Fiscus CJ, Aguirre-Liguori JA, Gaut GRJ, Gaut BS. Landscape genomics and mutational load in *Vitis arizonica*. Poster. SMBE 2024. Puerto Vallarta, Mexico

Fiscus CJ, Aguirre-Liguori JA, Gaut GRJ, Gaut BS. Landscape genomics and mutational load in *Vitis arizonica*. Talk. Southern California Evolutionary Genetics and Genomics Meeting (SCalE) 2024. Pasadena, CA, USA

Fiscus CJ, Landis JB, Morales-Cruz A, Gaut BS. Disentangling the evolution of grape crop wild relatives. Talk. Plant and Animal Genome Conference 31. San Diego, CA, USA

Fiscus CJ, Landis JB, Morales-Cruz A, Gaut BS. Disentangling the evolution of grape crop wild relatives. Talk. Southern California Plant Biology Symposium 2023. Riverside, CA, USA

Fiscus CJ, Koenig D. The genetic control of rapid genome content divergence in *Arabidopsis thaliana*. Poster. SMBE 2023. Ferrara, Italy

Fiscus CJ, Koenig D. The genetic control of rapid genome content divergence in *Arabidopsis thaliana*. Talk. SMBEeverywhere GS7. Online

Fiscus CJ. Causes and consequences of plant genome evolution. Seminar. 01/2023. Friends of Evolution Seminar Series, Dept. of Ecology and Evolutionary Biology UC Irvine. Irvine, CA, USA

Fiscus CJ, Koenig D. The genetic control of rapid genome content divergence in *Arabidopsis thaliana*. Poster. PEQG 2022. Pacific Grove, CA, USA

Fiscus CJ, Koenig D. A catalog of genome content variation in *Arabidopsis thaliana*. Poster. TAGC 2020 Online. Online. doi: 10.6084/m9.figshare.12148632.v1

Fiscus CJ, Koenig D. A K-mer based approach to characterize the dark matter of the *Arabidopsis thaliana* genome. Poster. Southern California Evolutionary Genetics and Genomics Meeting (SCalE) 2019. Irvine, CA, USA

Fiscus CJ, Koenig D. A K-mer based approach to characterize the dark matter of the *Arabidopsis thaliana* genome. Poster. SMBE 2019. Manchester, UK

Awards and Fellowships

SMBE2024 Young Investigator Award- \$2000	2024
UCR Graduate Student Association Conference Travel Grant- \$400	2022
Earle C. Anthony Graduate Student Travel Award (UCR)-\$1000	2020
UCR Graduate Student Association Conference Travel Grant- \$900	2019
Best Student Appetizer, UCR Botany and Plant Sciences Holiday Party	2017, 2018, 2019
Dean's Distinguished Fellowship (UCR)- \$210,938	2016 - 2021

Outreach

Scientist Mentor, PlantingScience 09/2017 - 05/2020 Volunteer, UC Riverside Plant Discovery Day 04/2019 Master Plant Science Team, PlantingScience 09/2017 - 05/2018 Guest Speaker, James C. Enochs High School Forensics/Biotechnology Career Pathway Program 03/2017

Service

Organizer, Southern California Evolutionary Genetics and Genomics Meeting (SCalE)	2023
President, GGB Graduate Student Association (UCR)	2019 - 2020
Secretary, GGB Graduate Student Association (UCR)	2017 - 2018

Professional Affiliations

Genetics Society of America 2020 - Present Society for Molecular Biology and Evolution 2017 - Present

Mentoring

Livia Nguyen, UCR undergraduate	2020
Caitlin Santos, UCR undergraduate	2019 - 2021
Johnny Nguyen-Tran, UCR undergraduate	2019
Chris Roland Valdez, NSF-CEPCEB REU Program in Next Generation Plant Biology	06-08/2018
Selena Burke, NSF-CEPCEB REU Program in Next Generation Plant Biology	06-08/2017