

Christopher J. Fiscus, PhD

Department of Ecology and Evolutionary Biology
University of California, Irvine

✉ cfiscus@uci.edu
🐦 @fiscuscj
👤 cfiscus.github.io
🌐 cfiscus
in fiscuscj

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

Postdoctoral Scholar, University of California, Irvine 2022 - Present
Dept of Ecology and Evolutionary Biology
Advisor: Dr. Brandon Gaut

Graduate Student Researcher, University of California, Riverside 2016 - 2022
Dept of Botany and Plant Sciences
Advisor: Dr. Daniel Koenig

Quality Control Laboratory Technician, Charles Krug Winery 2015 - 2016

Harvest Laboratory Technician, Charles Krug Winery (via Apex Life Sciences) 2015

Undergraduate Researcher, University of California, Davis 2014
Advisor: Dr. Jeffrey Ross-Ibarra

Undergraduate Intern, University of California, Davis Spring 2012
Advisor: Dr. Kent J. Bradford

Teaching Experience

Guest Lecturer, University of California, Riverside Winter 2020
BIOL 119. Introduction to Genomics and Bioinformatics.
Lecture: Genomics, Phenotype and Disease.

Teaching Assistant, University of California, Riverside Winter 2019, 2020, 2021
BIOL 119. Introduction to Genomics and Bioinformatics
BIOL 102. Introductory Genetics Winter 2018

Community Education Instructor, Modesto Junior College Summer 2013 - 2014
Science Camp

Community Education Assistant Instructor, Modesto Junior College Summer 2012 - 2014
Introductory LEGO Mindstorms NXT Robotics
Advanced LEGO Mindstorms NXT Robotics Summer 2013 - 2014
Video Game Programming for Kids Summer 2014

Publications 0000-0001-9569-1809

Preprints

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

In press

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, 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. January 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. PEQG2022. 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 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

Valdez CR, **Fiscus CJ**, Koenig D. Characterization of genome content variation in *Oryza sativa*. Poster. UCR Graduate Program in Genetics, Genomics and Bioinformatics Symposium 2019. Poster. Riverside, CA, USA

Awards and Fellowships

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	2017 - 2020
Volunteer, UC Riverside Plant Discovery Day	April 2019
Master Plant Science Team, PlantingScience	2017 - 2018
Guest Speaker, James C. Enochs High School Forensics/Biotechnology Career Pathway Program	March 2017

Service

Organizer, Southern California Evolutionary Genetics and Genomics Meeting (SCaE)	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	Summer 2018
Selena Burke, NSF-CEPCEB REU Program in Next Generation Plant Biology	Summer 2017