

# Jeffrey Ross-Ibarra

Department of Evolution and Ecology  
Center for Population Biology  
Genome Center  
University of California Davis

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## Education

PhD Genetics, University of Georgia 2006  
MS Botany, University of California Riverside 2000  
BA Botany, University of California Riverside 1998

## Academic Employment

Professor, Dept. Evolution and Ecology, University of California Davis	2019-present
Scientific Director, UC Davis High Performance Computing Core Facility	2024-present
Chair Professor, College of Plant Sciences, Huazhong Agricultural University	2024
Paternity leave	2017
Professor, Dept. Plant Sciences, University of California Davis	2016-2019
Associate Professor, Dept. Plant Sciences, University of California Davis	2012-2016
Assistant Professor, Dept. Plant Sciences, University of California Davis	2009-2012
Postdoctoral Researcher, University of California Irvine	2006-2008
Profesor de Asignatura, Universidad Nacional Autónoma de México	2001

## Selected Fellowships and Awards

NAS Prize in Food and Agriculture	2024
College of Biological Sciences Award for Research Excellence	2024
Fellow, American Association for the Advancement of Science	2020
Stadler Mid-Career Excellence in Maize Genetics Award	2016
Faculty Development Award in recognition of university service	2015
DuPont Young Professor Award	2012
Presidential Early Career Award for Scientists and Engineers	2009

## Instruction and Advising

Current (total) advisees: 4 (30) postdoc, 6 (13) graduate, 1 (40) undergraduate	
Hablemos de Evolución y Ecología (First year seminar)	2025
Graduate Advisor, Plant Biology Graduate Group	2021-present
Faculty trainer, Evolution and Ecology Scholars program	2023-present
NSF REU (EEREC) faculty advisor	2022-present
Plant Biology Graduate Core (PLB200A)	2018-2022

Graduate advisor, Ecology Graduate Group	2018-2021
Ecological Genomics (ECL 243)	2014-present
Genetics (UC Davis, BIS 101, undergraduate)	2013-2022
Faculty advisor, US-Mexico graduate student exchange program	2011-2015
Population and Quantitative Genetics (GGG 201D, graduate)	2010-2013
Plant Genetics (PLS 152, undergraduate)	2010-2011
Biología de Plantas I (undergraduate), UNAM	2001

## Service: selected from last 3 years

### *University*

Scientific Director, High Performance Computing Core Facility	2024-present
START taskforce on Research Computing	2024-present
Member, Advanced Computing Committee, UC Davis Health	2025-present
Member, Computer Support Committee, College of Letters & Science,	2024-present
Chair and Co-Chair, Ecology & Evolution Seminar Series	2020-2022
EVE representative, Faculty Executive Cmte, College of Biological Sciences	2020-2022
Advisory cmte, controlled environment facility	2020-2024
Executive Cmte, Plant Biology Graduate Group	2019-present
Confidential committee for the Office of the Vice Provost — Academic Affairs	2017-2024
appointment (1), tenure (4), full professor (2) and distinguished professor letters	2022-2025

### *Professional*

Organizing Committee, Society for Molecular Biology and Evolution Conference	2024
Chair, Genetics Society of America PEQG Conference	2022
Chair, Plant Genomes Online Conference	2022
Board of Directors, Maize Genetics Corporation	2022-present
Maize Genetics Advocacy Cmte,	2022-present
Executive Council, Society of Molecular Biology and Evolution	2022-2024
Scientific Advisory Board, FOREVER project	2021-present
Founder and organizer, Zeavolution webinar series	2019-present
Maize Genetics Awards Committee	2017,2019-2020,2022
Editorial Boards: Genes, Genomes, and Genetics Senior (2017-2024) and Associate (2014-2024) Editor, New Phytologist Associate Editor (2021-2022), eLife Reviewing Editor (2021-2024) PeerJ Senior (2018-2019) and Associate (2013-2021) Editor	
Journal peer review: Molecular Ecology, Science (2), eLife (7), Genetics , Plant Cell, Trends in Genetics , Trends in Ecology , Evolution, Evolutionary Applications, PNAS (5) , Nature Communications , G3 (3) , PLoS Genetics (2), American J Botany (2), Current Biology	

## Contributions to Diversity

Maize Genetics code of conduct committee	2023-present
Society of Molecular Biology, <i>ad hoc</i> code of conduct committee	2024-2025
Faculty representative, Pop Bio graduate student DEI cmte	2023-2024
Chair, Maize Genetics review of multi-society DEI initiative	2023
Faculty representative, EEB grad preview workshop	2023
Member, IDEA Cmte, Society for Molecular Biology and Evolution	2022-2024

## Outreach

Talking Biotech podcast	2025
Corteva "Breeding Bites" podcast	2024
KQED Documentary "Your Corn Tortilla Sucks... Science Can Fix It"	2024
Eat This podcast "A New Story for Maize Domestication"	2023
San Francisco Exploratorium panel on crop domestication,	2023
Good Food podcast "Maize is life"	2022
Expert interview for National Geographic, Science&Vie, Folha de S.Paulo, South China Post	2022-2025

## Current Funding

NSF: "REUSite: Ecology, Evolution, and Equity in Environmental Change (4EC)" \$350,000 (PI) <i>Recommended for Funding</i> 2024-2027
NSF: "DISES: Coevolutionary dynamics of humans and maize in the Americas" \$1.6M (PI), 2023-2026
Gates Foundation: "Study and test approaches for identifying alleles associated with environmental adaptation" \$320,000 (Co-PI), 2022-2026
NSF: "PGRP: Uncovering the role of transposons in maize variation" \$800,000 of (Co-PI), 2019-2025

## Invited Seminars, previous 3 years

UC Davis, May 2025
UC Berkeley, May 2025
Gomez-Pompa lecture, UC Riverside, May 2025
Maize Biology Conference of China (keynote), April 2025
Darwin Day lecture, U. Calgary, Feb 2025
Huazhong Agricultural University, Aug. 2024
Shenzhen Agricultural Genomics Institute, Aug. 2024
Yazhouwan National Laboratory, Aug 2024
Sacramento Archeological Society, July 2024
Corteva Agriscience, June 2024
U. Cologne, Mar. 2024
U. Oregon, Feb. 2024
U. Helsinki, Jan. 2024

MexPopGen International Conference (keynote), Oct. 2023

Danforth Center, Aug. 2023

Bayer Crop Science, Aug. 2023

U. Missouri, Aug. 2023

Forest Genetics Conference (keynote), July 2023

Google X, July 2023

Plant and Animal Genome Conference, Jan 2023

Iowa State University, Sep. 2022