Jazlyn Mooney

University of Southern California   
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appointments

University of Southern California

Gabilan Assistant Professor in Quantitative and Computational Biology 2022-Present

EDUCATION

Stanford University of California

Postdoc in Biology 2020- January 2022

Advisor: Noah Rosenberg

University of California Los Angeles

Ph.D. in Genetics and Genomics 2015-September 2020

Advisor: Kirk Lohmueller

University of New Mexico

BS with Honors Anthropology and Biology (Summa Cum Laude) 2010-May 2014

Honors Thesis: “Inferring Evolutionary History from Ancestry Informative Markers (AIMs)”

Advisor: Jeffrey Long

previous Research EXPERIENCE

DNA Science Intern at Ancestry.com June 2019-August 2019

Mentor: David Turissini

DNA Science summer intern with the Population Genetics team at Ancestry.com in San Francisco.  
Project title: Generating Hierarchical Population Labels Informed by Genetics

University of California Los Angeles Genetics and Genomics Department 2015-2020

Advisor: Kirk Lohmueller

Analyzed sequence and array data to determine the impact of recent and ancient demography on genetic diversity and the distribution of deleterious variation in the genome.

University of New Mexico Evolutionary Anthropology Department 2012-2014

Undergraduate Research Assistant

Advisor: Jeffrey Long

Research focused on using African and Non-African ancestry informative markers, AIMs, to identify potential archaic introgression in Non-African populations.

University of Chicago - Pritzker School of Medicine Experience in Research (PSOMER) 2013

Undergraduate Research Assistant

Advisor: Michael Maitland

My research project focused on using genetic haplotypes to explore patient reactivity to Sunitinib and Sorafenib, drugs used to treat advanced cancer.

University of New Mexico - Research in Molecular Biology 2013

Undergraduate Research Assistant

Advisors: Donald Natvig and Coenraad Adema

This research integrated both benchwork and computational work where I processed DNA and RNA sequences from both plants and animals, analyzed the raw sequence data, then sent the novel sequence data to GenBank.

Research FUNDING

National Science Foundation Postdoctoral Research Fellow in Biology **2021-2022**Stanford CEHG Fellow **2020-2021**

UCLA Dissertation Year Fellowship **2019**Graduate Programs in Bioscience Fellowship Incentive Program/Shine Fellowship **2016**

National Science Foundation Graduate Research Fellowship **2015**

awards and honors

USC Women in Science and Engineering Gabilan Assistant Professorship **2022**   
UCLA Human Genetics Leena Peltonen Award winner **2019**

Platform Session moderator for the American Society of Human Genetics annual meeting **2018**   
Presidential Scholarship at University of New Mexico **2010-2014**

New Mexico Lottery Success ABQ Scholarship **2010-2014**

Undergrad Minority Scholarship **2013**

Honors Award/Anthropology Scholarship **2013**

Miscellaneous Scholarships **2012**

Enterprise Rent-a-Car Diversity Scholarship **2011**

Dean's List at University of New Mexico **2010-2014**

publications

2. **Mooney JA,** Yohannes A, Lohmueller KE. The impact of identity-by-descent on fitness and disease in domesticated and natural *Canid* populations. Proc Natl Acad Sci USA. 2021 Apr 20;118(16):e2019116118.  
1. **Mooney JA**, Huber CD, Service S, Sul JH, Marsden CD, Zhang Z, Sabatti C, Ruiz-Linares A, Bedoya G, Costa Rica/Colombia Consortium for Genetic Investigation of Bipolar Endophenotypes, Freimer N, Lohmueller KE. Understanding the hidden complexity of Latin American population isolates. Am J Hum Genet, 2018; 103:707-726.

Research Supervision

Anika Shrivastava, Quantitative Biology Undergraduate student, USC **2022**

Mengdi Chai, Quantitative Biology Undergraduate student, USC **2022**

Abigail Yohannes, Political Science Undergraduate student, UCLA **2019-2020**

TEACHING EXPERIENCE

San Francisco State University Fall 2020

Instructor for BIOL 870 Biology Colloquium

University of California Los Angeles Fall 2020

Co-instructor for HUMGEN 19: How Genetics has Contributed to Racial Injustice in America and the World

University of California Los Angeles Fall 2019

Teaching Assistant for Population Genetics   
**University of California Los Angeles** **Fall 2017**Computational instructor for Advanced Human Genetics   
**University of California Los Angeles** **Fall 2016**Teaching Assistant for Life Sciences core genetics course

university and departmental service

Member of the graduate admissions committee **2022**

Other academic and profesional acitivies

Co-organizer of SMBE 2021 symposium “*Population genetics of identity-by-descent and runs of homozygosity: causes, consequences, and utility*” with Zachary Szpiech **2021**Co-organizer SACNAS Scientific/STEM Symposia Session Workshop “*Beyond Excel: Data Visualization with*

*RStudio to Improve Your Posters, Presentations, and Publications*” **2019**Student Advisory Committee Member for Graduate Programs in Bioscience (GPB) at UCLA **2018-2020**

Organizing Committee, UCLA QCBio Annual Career Panel and Networking Event **2017**

SACNAS Member at UCLA **2015-2017**

Member of the Association for Multi-Ethnic Bioscientists’ Advancement at UCLA **2015-2020**

Founder and Chair of the Association for Multi-Ethnic Bioscientists’ Advancement at UCLA **2015-2020**

Primate Enrichment at Rio Grande Zoo in New Mexico **2010-2015**

Invited reviewer for  
*American Journal of Human Genetics, Molecular Biology and Evolution, PLoS Genetics, Frontiers in Genetics, Evolutionary Applications*  
Invited Presentations

Seminar for the USC Computational Biology Symposium, USC, Los Angeles, CA **2022**  
Seminar for the Molecular Biology Interdepartmental Doctoral Program, UCLA, Los Angeles, CA **2022**

Seminar for The Center for Theoretical and Evolutionary Genetics, UC Berkeley, Berkeley, CA (*virtual*) **2022**

Seminar for the Department of Ecology and Evolutionary Biology, U of A, Tucson, AZ **2022**Seminar for the Department of Ecology and Evolutionary Biology, MSU, Lansing, MI (*virtual*) **2022**Seminar for the Department of Biology, SDSU, San Diego, CA **2022**Seminar for Department of Biology, PSU, State College, PA **2021**Seminar for the Department of Genetics, UGA, Athens, GA (*virtual*) **2021**Seminar for the Department of Quantitative and Computational Biology, USC, Los Angeles, CA **2021**Seminar for the Molecular Biology Interdepartmental Doctoral Program, UCLA, Los Angeles, CA **2021**Seminar for the Department of Biology Colloquium, CSU Dominguez Hills, Carson, CA (*virtual*) **2021**

Conference Presentations

**Mooney JA\***, Huber CD, Service S, Sul JH, Marsden CD, Zhang Z, et al. Understanding the hidden complexity of Latin American population isolates.

2018 American Society of Human Genetics (ASHG) **Poster** (Reviewer’s Choice Abstract)

2018 Bay Area Population Genomics (BAPG) **Talk**

2018 Population Evolutionary and Quantitative Genomics (PEQG) **Poster**

2018 Informatics Center for Neurogenetics and Neurogenomics (ICNN) Symposium **Talk**

2018 UCLA Quantitative and Computational Biology Retreat **Talk**

2018 UCLA Human Genetics Retreat (Leena Peltonen Award Finalist) **Talk** 2017 American Society of Human Genetics (ASHG) **Poster**

**Mooney JA\***, Yohannes A, Lohmueller KE. The impact of identity-by-descent on fitness and disease in domesticated and natural *Canid* populations.

2021 Society for Molecular Biology and Evolution (SMBE) **Talk**2020 Society for Molecular Biology and Evolution (SMBE) **Talk (cancelled due to covid)**2019 UCLA Human Genetics Retreat (Leena Peltonen Award Finalist) **Talk**