

**Rohan Ferriols Alibutud**  
PhD Candidate, Bioinformatics  
Temple University

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## EDUCATION

- PhD Candidate** (*in progress*) **2023 - 2026**  
Bioinformatics program  
Temple University Department of Biology  
*Advisor:* Sudhir Kumar
- Bachelor of Science** *cum laude* **2015 - 2020**  
Double major, Genetics and Evolutionary Anthropology  
Rutgers, The State University of New Jersey  
*Thesis:* Prioritization of autism candidate genes from whole-genome sequences of affected families.  
*Thesis advisors:* Jinchuan Xing, Erin Vogel
- Field School Graduate** **2018**  
Turkana Basin Institute Origins Field School
- Emergency Medical Technician (EMT) Certification** **2015**  
Jersey Shore University Medical Center
- High School Graduate** **2015**  
Academy of Allied Health and Science

## RESEARCH

- Doctoral Student** **2023 - 2026**  
Kumar Lab  
Institute for Genomic and Evolutionary Medicine  
Temple University Department of Biology
- Research Assistant** **2020 - 2023**  
Xing Lab of Genomics  
Rutgers University Department of Genetics  
Analyzed structural variants in autism probands using computational methods such as AnnotSV, GEMINI, and StrVCTVRE. Formulated a prioritization pipeline for copy number variants using Python, SQL, and R. Resulted in two publications, including one paper as a first author.

**Undergraduate Student****2019 - 2020**

Xing Lab of Genomics

Rutgers University Department of Genetics

Used bioinformatics tools such as ANNOVAR and pVAAST and applied custom scripts written in Python and R. Prioritized target autism genes for induced pluripotent stem cell research conducted by collaborators. Resulted in an undergraduate honors thesis (see *Publications*).

**Database Assistant****2019**

Vogel Lab

Rutgers University Department of Anthropology

Processed foraging data from Kalimantan field site using Excel, Access, and Visual Basic.

**MEMBERSHIPS IN SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS****Undergraduate Affiliate****2020**

Center for Human Evolutionary Studies

Rutgers University

**PUBLICATIONS***In review or submitted*

1. Kumar, S., **Alibutud, R.**, Allard, J., Mowlaei, M.E., and Shi, X., 2026. "Transforming molecular evolutionary analyses with protein foundation models". *Nature Methods* [submitted].

*Published*

2. Prem, S., Dev, B., Peng, C., Mehta, M., **Alibutud, R.**, Connacher, R.J., St Thomas, M., Zhou, X., Matteson, P., Xing, J. and Millonig, J.H., 2024. Dysregulation of mTOR signaling mediates common neurite and migration defects in both idiopathic and 16p11.2 deletion autism neural precursor cells. *Elife*, 13, p.e82809.
3. **Alibutud, R.**, Hansali, S., Cao, X., Zhou, A., Mahaganapathy, V., Azaro, M., Gwin, C., Wilson, S., Buyske, S., Bartlett, C., Flax, J., Brzustowicz, L., Xing, J., 2023. Structural variations contribute to the genetic etiology of autism spectrum disorder and language impairments. *Int. J. Mol. Sci.* 24, 13248.

4. **Alibutud, R.** Conference paper. International Conference on Intelligent Biology in Medicine 2022. “Functional Impact of Copy Number Variation in Autism Probands”. Philadelphia, PA.
5. **Alibutud, R.** “Prioritization of autism candidate genes from whole-genome sequences of affected families”. Honors thesis, Rutgers University Department of Anthropology. Thesis advisors: Jinchuan Xing, Erin Vogel

## TEACHING EXPERIENCE

### Teaching Assistant

Bruce Weir Summer Institute in Statistical Genetics	2025
BIOL-3112 Genomic Evolutionary Medicine	2024 - 2026
BIOL-1001 Biology Lab for Non-Majors	2023

## HONORS AND AWARDS

<b>Outstanding Teaching Assistant by a Graduate Student</b>	2024
Temple University College of Science and Technology	
<b>Google Computing Resources Grant</b>	2024
<b>ICIBM 2022 NSF Travel Award</b>	2022
<b>Honors Symposium in Anthropology First Place Award</b>	2020
<b>Henry Rutgers Scholar</b>	2020
<b>Paul Robeson Scholar</b>	2020
<b>Dean’s List</b>	2017 - 2020

## EXTRACURRICULAR

<b>President, Rutgers Archaeological Society</b>	2018 - 2019
Coordinated field trips to museums and archaeological sites and organized fossil hunting expeditions. Hosted guest lecturers on ongoing research in anthropology.	
<b>Media Coordinator, NJPIRG</b>	2015
Liaised with local reporters on a solar energy campaign and organized tabling sessions and petitions.	