

Jair Torres

Master's Student in Biology | Graduate Teaching Associate | Avian Genomics Researcher
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Education

California State University, Stanislaus, Turlock, CA	Biological Sciences	B.Sc. 2023
	Biological Sciences	M.Sc. 2025

Research Experience

Presentations

Applications of Graph Theory to Disease-Gene Networks (Google CS Research)	Spring 2023
Investigating the Role of Inaccurate Diagrams in Student Misconceptions about Plant Metabolism	Spring 2021
The Effects of Simplified Diagrams on Student Misconceptions about Evolution	Spring 2020

Professional Experience

Stanislaus State Department of Biological Sciences

Biology Lab Instructor	Fall 2023–Present
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I teach two sections (48 students) of BIOL 1020: World of Biology Lab. I am trained in lab safety.

Stanislaus State Learning Commons

Peer Mentor Intern	Fall 2023–Present
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I provide support for instructional student assistants (ISAs). I lead trainings and provide feedback to a cohort of 55 ISAs.

Supplemental Instruction Leader	Fall 2020–Present
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I lead interactive group study sessions for groups of 2 – 24 students enrolled in the following courses:

BIOL 1010: Principles of Biology	Fall 2020–Spring 2021
BIOL 3310: Cellular and Molecular Biology	Fall 2023–Spring 2024
CHEM 1100: General Chemistry I	Fall 2022–Spring 2023
CHEM 1110: General Chemistry II	Fall 2021–Spring 2022
CHEM 3010: Organic Chemistry I	Spring 2024–Present

Peer Tutor	Fall 2020 – Spring 2023
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I provided instructional support to groups of 1 – 3 students enrolled in the following courses:

BIOL 1010: Principles of Biology
BIOL 1050: General Biology I
BIOL 1150: General Biology I
BIOL 3310: Cellular and Molecular Biology
CHEM 1100: General Chemistry I
CHEM 1110: General Chemistry II

CHEM 3010: Organic Chemistry I
MATH 1070: College Algebra
MATH 1080: Trigonometry
MATH 1600: Statistics

Skills

- Long-read genome sequencing and assembly
- Genome annotation
- R programming language for data analysis and visualization
- Network analysis of large datasets
- Science communication to expert and non-expert audiences
- DNA extraction, quantitation, PCR, and gel electrophoresis
- Culturing, quantifying, and identifying bacterial species
- Microbiome analysis
- English & Spanish (Fluent in reading, writing, and speaking)

Volunteer Experience

Stanislaus State STEM Ambassadors

Spring 2023–Present

Events I have led have an asterisk (*).

Atomic Structure Model Building*

The Secret Life of Cells Microscopy

The Chemistry of Health

Darwin Day Bird Walk

Soccer Without Borders (Oakland, CA)

Fall 2022–Present

I help set up and run soccer tournaments for refugee youth. I am also an event photographer. My photos of events help in getting local funding for these events.

Honors and Awards

Dean's List

Fall 2019–Spring 2023

Dean's Award

Fall 2019–Spring 2023

Metzger-Geiger Award

Spring 2023

Biological Sciences Academic Achievement Award

Spring 2023