

JORDY CEVALLOS CHÁVEZ

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Teaching Statement

- Applied mathematician passionate about inclusive STEM education and active learning in undergraduate mathematics.
- 4+ years of experience designing and teaching undergraduate math courses and leading instructional teams.
- Mentored diverse student cohorts, integrating real-world modeling problems, coding skills, and student research into the classroom.

Teaching Experience

Instructor: APM 254 (Diff. Eq. & Linear Algebra) & APM 406 (Capstone) Spring 2024 & Spring 2025

Arizona State University

Tempe, AZ

- Designed and taught applied math curriculum integrating MATLAB and Python for engineering and life science students.
- Supervised final capstone projects on modeling biological and epidemiological systems.

Instructor: APM 253 (Intro to Differential Equations)

Fall 2023 & Fall 2024

Arizona State University

Tempe, AZ

- Developed instructional materials, coding labs, and real-world applications for differential equations.
- Increased student performance by 40% based on pre-/post-course assessments.

Academic Advisor and Tutor Leader

Summer 2025

Arizona State University

Tempe, AZ

- Trained and supervised 4 graduate tutors supporting applied math labs in MATLAB, Python, and R.
- Advised 4 student research groups, supported curriculum development and instructional coordination.

Tutor & Mentor, MTBI & QRLSSP Summer Programs

Summer 2020 & Summer 2021

Arizona State University

Tempe, AZ

- Mentored 20+ undergraduates in research design, modeling, and computational methods.
- Led sessions on differential equations, data analysis, and scientific writing.
- Advised 2 research teams; one project led to a peer-reviewed publication.

Education

Arizona State University

Expected May 2025

Ph.D., Applied Mathematics for the Life and Social Sciences

Tempe, AZ

- Dissertation: *Quantifying the Impact of Partner Selection on Viral STIs in the U.S.*

Arizona State University

2021

Doctoral Certificate in Complex Adaptive Systems

Tempe, AZ

- Thesis: *Mobility Impact on COVID-19 Dynamics in Ecuador*

Arizona State University

2021

M.Sc., Applied Mathematics for the Life and Social Sciences

Tempe, AZ

- Thesis: *Mobility Impact on COVID-19 Dynamics in Ecuador*

Yachay Tech University

2019

B.Sc., Mathematics (Cum Laude)

Ecuador

- Thesis: *Semiclassical Asymptotics for Nonlinear Schrödinger Equations*

Selected Publications

- “The Impact of Partner Selection in the Transmission Dynamics of STVIs”** **2025**
J. Cevallos-Chávez, F. Milner *Math. Biosci. Eng.*
- “Lead Toxicity in the Bald Eagle Population of the Great Lakes Region”** **2021**
Brasic et al., J. Cevallos-Chávez *Math. Popul. Stud.*
- “Hierarchy Establishment from Nonlinear Social Interactions and Metabolic Costs”** **2022**
Bustamante-Orellana et al., J. Cevallos-Chávez *Applied Sciences*

Awards

- Graduate Fellowship Award** **Summer & Fall 2024**
Arizona State University *Tempe, AZ*
- Travel Award** **May 2024**
ASU Graduate College *Tempe, AZ*
- Assembly Service Award** **May 2023**
Graduate and Professional Student Association - ASU *Tempe, AZ*
- IFTH Scholarship** **2014 – 2019**
Ecuadorian Secretariat for Higher Education *Ecuador*

Teaching Competencies & Tools

- Differential Equations
- Mathematical Modeling
- Applied Linear Algebra
- Simulation & Parameter Estimation
- MATLAB, Python, R, Mathematica
- Jupyter Notebooks, Overleaf
- Data Visualization & Interpretation
- Inclusive Pedagogy
- Undergraduate Mentoring
- Canvas, Google Classroom, Zoom