# Tomas Dos Santos

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23706 Waterleaf Circle · Moreno Valley California 92557

**Skills:** Python · Pytorch · Scikit-Learn · TensorFlow · Pandas · SQL · Javascript · React · Django · LaTeX

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## EXPERIENCE

**UCR Environmental Health and Safety**                          **Mar 2024 - Jun 2024**

*Intern*

- Participated in the assessment of 80 storm drain system facilities for maintenance,
- Collected, organized, and maintained environmental health and safety data for the UCR campus.
- Ensured compliance with Construction Site Runoff control program.

**Undergraduate Researcher**                          **Dec 2023 - Jun 2024**

*Probability Theory*

- Created numerical methods for calculating geodesic distances using Python, gaining skills in mathematical modeling and data analysis.
- Employed Monte-Carlo techniques of evaluating probability using NumPy to boost efficiency.
- Analyzed the memory and time demands of scaling geodesic numerical analysis
- Utilized cutting edge Komolgorov-Arnold neural networks to find closed-form solutions.
- Presented my findings to a committee of professors as well as other undergraduate students.

**Research Assistant/Co-Author**                          **May 2022 - Present**

*Mathematical Principles in Physics*

- Used my mathematics background to co-author a textbook on the mathematical principles of physic with Dr. Bipin Desai.
- Actively drafted over 220 pages of text, ensuring accurate portrayal of quantum mechanics and mathematical modeling principles in LaTeX.
- Diligently prepared and reviewed manuscripts set for publication in 2025.

**Moreno Valley Unified School District**                          **Aug 2021 - Jun 2022**

*Avid Tutor*

- Supported struggling students by using individualized approaches to target specific deficiencies.
- Assisted AVID students with their academic skills to ensure success in college-level courses.

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## CLUBS & LEADERSHIP

**AI Student Collective**

*Vice President and Co-Founder*

- Co-Founder of the first Artificial Intelligence club at UCR and raised to 100+ members.
- Organized a talk with a keynote speaker from Microsoft on the evolving landscape of AI.
- Led weekend workshops on practical machine learning and data science projects for UCR students where we helped students understand everything from the basics of regression and classification to advanced computer vision topics

**Sigma Phi Epsilon**

*Vice President of Learning Community*

- Played a pivotol role in receiving UCR Chapter of the Year and Highest GPA Awards 2022-2023.
- Raised cumulative Chapter GPA from 2.93 to 3.18 by hosting tutoring for fraternity members.
- Delegate for 2023 Sigep Grand Chapter Conclave voting and shaping the future Bylaws for the fraternity.

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## EDUCATION

**University of California, Riverside**                          **Sept 2023 - Jun 2024**

Bachelor of Science in Mathematics · GPA: 3.77
Chancellor's List Sept 2022 - March 2024