Henry Tran

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https://henrytran07.github.io/

PROFESSIONAL EXPERIENCE

Mt. San Antonio College   July 2023 - May 2024
Undergraduate Student Researcher   *Walnut, California, United States*

- Designed and implemented data simulations to generate a dataset of **400** students (approximately **5000** data)
- Utilized **Numpy** to **manage** and **processed** large datasets efficiently
- Applied **Bayesian** statistical methods to compare grade differences between testing groups(**large** extra credit groups, **small** extra credit groups) and control groups (**no** extra credit groups)
- Simulated data to determine the probability of different outcomes and interpret the results

SKILLS

Programming: Python (Numpy), C++
Software & Platform: Git

EDUCATION

Mt. San Antonio College   Walnut, CA
Electrical Engineering & Software Engineer   *Sep 2022 - Jun 2025*
GPA: 4.0

ACADEMIC EXPERIENCE

Mt. San Antonio College   Sep 2022 - Jun 2025
Activities & Societies: *On Campus*
   * Vice President of Alpha Gamma Sigma (2023)
   * Secretary of Math Club (2024)
   * Mt.SAC Robotic Team (2024)
Associate Degree in Mathematics

Highlight Courses:
   * Calculus 1, Calculus 2, Calculus 3, C++ Programming Language, Linear Algebra, Engineering Physics, Microeconomics, Macroeconomics

HONORS AND AWARDS

Mt. San Antonio College   *June 2024*
   Jonah Jeremiah Lavata's Memorial Scholarship   ARISE Program
Mt. San Antonio College
   Spring 2023   President's List
   Fall 2023   President's List
   Spring 2024   President's List

SIDE PROJECT

Tic-Tac-Toe Game github.com/henrytran07/tictactoe   February 2024 - May 2024
This side project is a console-based Tic-Tac-Toe game with user authentication, incorporating functionalities such as user registration, secure password hashing, and validation, providing a secure and engaging interactive experience for players.

Sudoku Game github.com/henrytran07/sudoku   February 2024 - May 2024
This Python program efficiently generates and solves Sudoku puzzles using a recursive backtracking algorithm.

Color Interpolation github.com/henrytran07/Color-Interpolation.git   *February 2024 - May 2024*
This project involves developing a C++ application that allows users to blend two selected colors using linear interpolation.