Rocco Julian

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EDUCATION

Montclair State University, Bachelor of Science — Mathematics, Data Science Minor, September 2021-May 2025 (Expected), GPA: 3.56/4.00

Montclair State University, Master of Science — Mathematics, May 2024-May 2026 (Expected)

RELEVANT COURSEWORK

Python Programming I, II, Data Structures and Algorithms, Calculus I, II, III, Advanced Calculus I, Linear Algebra, ODE, Mathematical Modeling, Probability Theory, Statistics, Perturbation Theory

EXPERIENCE

Montclair State University Undergraduate Researcher — May 2023-Present

- Working on an original problem in graph theory
- Conducting complex calculations using Mathematica
- Ongoing study and application of graph theory
- Collaborating in one-on-one sessions with a research advisor on a weekly basis

Montclair State University Mathematics Supplemental Instructor January 2023-Present

- Facilitated in-person group sessions for students who needed additional support in college-level mathematics courses by simplifying intricate mathematical topics
- Kept neat and accurate records to facilitate data-analytics within the CAST department
- Successfully worked with 90+ unique students across 120+ appointments so far

Montclair State University Mathematics Tutor — September 2022-Present

- Assist students struggling in college-level mathematics courses in one-on-one sessions, in person and virtually, by building up problem solving skills and simplifying complex mathematical topics
- Build up study skills and motivation for students
- Successfully worked with 100+ unique students across 300+ appointments so far

SKILLS

Python, Statistics, Probability, Mathematical Modeling, Mathematics, Teaching, Tutoring, Matplotlib, Communication, Microsoft Excel, Access, Powerpoint, Word

PROJECTS

Explaining the Causes of the Gini Coefficient with Network Theory

- Conducted a comprehensive analysis of trade between 20+ countries to understand wealth inequality by using eigenvector centrality to see which countries contributed the most

Modeling the Attendance of STAT 230 SI sessions for the Spring 2023 Semester

- Modeled attendance with the Poisson distribution and tested the accuracy of the model using a Chi-Squared Goodness of Fit