MAEDÉE TRANK-GREENE

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EDUCATION

B.S., Applied Mathematics with an emphasis in Statistics and Data Science	Boulder, CC		
Certificate in Engineering Leadership	May 2024		
University of Colorado Boulder			
Cumulative GPA: 3.699 Department GPA: 3.956			
 Relevant Coursework: APPM 1360, APPM 1650, APPM 2350, APPM 2360, APPM 3050, APPM 3170, APPM 3310, APPM 4350, MATH 4510, CSCI 1300, STAT 2600, ENLP 2000, ENLP 3000 <u>TECHNICAL SKILLS</u> Python, MATLAB, R Studio, C++, LaTeX 			
		EXPERIENCE	
		Undergraduate Research Assistant for CU SPUR	May 2022 – Present
Electrical Engineering Department	Boulder, CO		
Worked alongside Dr. Joshua Combes to investigate quantum permutation puzzles			
 Investigated if we can build quantum permutation puzzles equipped with a set of move solve 	es that make the puzzle possible to		
• Built programs in Python to visualize permutations and arrangements of puzzle states			
 Presented my summer findings in a 10-minute presentation 			
Undergraduate Research Assistant	May 2022 – August 2022		
Applied Mathematics Department	Boulder, CC		
 Worked alongside Dr. Jim Curry to investigate datasets revolving around Wi-Fi and tr Boulder campus 			
 Built programs in Python to visualize Wi-Fi and transportation usage before, during, a 	and after COVID-19		
Learning Assistant for APPM 1360 + APPM 1361	January 2022 – May 2022		
Applied Mathematics Department	Boulder, CC		
• Worked with 12-14 students weekly on homework problems	,		
• Collaborated with other LAs and TAs to understand concepts and receive feedback			
• Utilized pedagogical techniques like student-to-student interactions and open and clos	sed questions		
Chladni Plates Analysis	December 2022		
APPM 4350 Class Project	Boulder, CC		
 Solved a Partial Differential Equation (PDE) with Boundary Conditions (BCs) on a cirvariables 	-		
 Solved for experimental values of nodes and the frequencies at which each node appear 	ared		
 Compared experimental to theoretical node values to determine accuracy of the PDE a 			
Implementing Time Series Decomposition with Singular Spectrum Analysis on Monthly I			
APPM 3310 Class Project	May 2022		
 Investigated monthly precipitation in Boulder, CO from 1990 – 2020 	Boulder, CC		
 Extracted the trend and seasonal components of time series 	Bouider, CC		
	angenal component		
• Analyzed residuals of original time series to trend and the original time series to the se	easonal component		

HONORS AND AWARDS

Dean's List Fall 2021, Spring 2022, and Fall 2022: Achieved a GPA of 3.600 or higher BOLD Engagement Scholarship Recipient: Scholarship to recognize engineering students who demonstrate academic excellence Herbert and Judy Paige Family Foundation Engineering Scholarship Recipient: Scholarship to recognize outstanding achievement in the College of Engineering and Applied Science

STUDENT AFFILIATIONS

Theta Tau, Eta Gamma Chapter Member

- Engaged in social events to network and build strong connections
- Managed Boulder Theta Tau Instagram

CU Boulder Club Tennis Team

Member

- Attended practice twice a week to build technical tennis skills
- Attended and played in tournaments

August 2021 – Present Boulder, CO

August 2020 – Present Boulder, CO