

University of Montevallo  
75 College Dr.  
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### Profile

Coursework Linear Algebra, Numerical Analysis, Mathematical Statistics, Differential Equations, Topology  
Technical Python, SQL, R, Git,  $\text{\LaTeX}$ , MATLAB, Maple, Excel  
Interests Machine Learning, Control Theory, Game Theory, Inverse Problems

### Education

Aug 2023–Present B.S. in Mathematics, University of Montevallo, Montevallo, AL  
GPA: 4.0 (President's List)  
Men's Soccer Team  
Aug 2022–May 2023 A.A. in Engineering, Gulf Coast State College, Panama City, FL  
GPA: 4.0 (President's List, Summa Cum Laude)

### Experience

June–Aug 2025 Computational Math for Data Science REU, Emory University, Atlanta, GA  
Inverse Problems and Uncertainty Quantification of Optimal Control in Dynamical Systems  
Propagating uncertainty through Bayesian parameter estimation and optimal control implementation for data-driven decision making  
Advisor: Dr. John Darges  
Jan 2025–Present Undergraduate Researcher, University of Montevallo  
Dynamics of the LaCrosse Virus  
Modeling disease spread and developing intervention strategies through optimal control  
Advisor: Dr. George Lytle  
Sep 2024–Present Peer Tutor, Learning Enrichment Center, University of Montevallo  
Tutoring Calculus, Statistics, Discrete Math, Physics, Chemistry, etc. (12 hrs/week).  
Sep 2024–Present Office Administrative Assistant, Math/Science Dept., University of Montevallo  
Supporting professors and staff with daily tasks, calls, mail handling. (8-10 hrs/week)  
May–Aug 2024 Engineering Intern, EPS Corp, Panama City Beach, FL  
Worked with senior engineers on creation of a reel management system for naval ships  
Assisted design and installation of piping/pump for fire suppression system  
Dec 2023–Jan 2024 Engineering Intern, Borusan Berg Pipe, Panama City, FL  
Aided engineers with steel strength and paint coating tests and machinery design with AutoCAD.

- 2021–2024 Semi-Professional Soccer Player, Florida Roots FC (NPSL)  
Youngest player in team history (debut at 17).
- 2023–2025 Delivery Driver, DoorDash, Panama City Beach, FL  
Completed ~1000 deliveries; maintained 4.98/5.00 customer rating.

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## Awards & Honors

Men's Soccer Athletic Scholarship  
Undergraduate Research Scholarship  
Phi Theta Kappa Transfer Scholarship  
Dean of Arts and Viability Scholarship  
Jacquita Knight Hauserman Scholarship  
Marjorie Murdock Mathematics Scholarship  
Joseph Cordone Mathematics Scholarship

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## Campus & Community Involvement

- 2023–Present University of Montevallo Men's Soccer  
20–25 hrs/week commitment for training, games, PT, film, etc  
Two redshirt seasons due to two knee surgeries.
- Jan 2025 COMAP Mathematical Contest in Modeling  
Project: *Old Stairs are an Open Book*  
Collaborative 4-day mathematical modeling competition
- Jan 2024–Present Member, UM Math & Astronomy Clubs  
Math activities, seminars, and star observation.
- Mar 2024–Present Volunteer, UM "The Big Event"  
Yearly volunteer event through UM Athletics for Shelby County residents
- Aug 2023–Present Volunteer, UM Move-In Day  
Yearly volunteer event helping students moving into dorms