

Ayden Edwards

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EDUCATION

University of Houston

B.S. Mathematics, Honors

B.S. Electrical Engineering, Honors

Minor in Data & Society

Expected May 2027

San Jacinto College

A.S. Mathematics

Modified Early College Academy

Honors Program

May 2024

EXPERIENCE

San Jacinto College

Aug 2023 – Present

Peer Mathematics, Statistics, and Science Tutor

- Tutored hundreds of students in Mathematics (Remedial Math through Calculus III), Statistics, Chemistry, Biology, and Physics.
- Developed strong skills in technical communication and problem solving, explaining complex problems intuitively.

San Jacinto College

Aug 2024 – May 2025

General Chemistry I and II Supplemental Instructor

- Pioneered Peer-Led Team Learning program; cut “drop, fail, withdrawal” rate by 50% over two semesters.
- Organized faculty meetings and presented data analyses using L^AT_EX. Facilitated large-group sessions, managed virtual meetings, and reinforced critical thinking skills through mentorship.

ACADEMIC PROJECTS

Research in Graph Neural Networks

Spring 2026

Provost’s Undergraduate Research Scholarship, University of Houston

- Conducted directed research on Graph Neural Networks, studying message-passing architectures and their application to learning geometric and topological features of data.
- Analyzed real-world graph-structured datasets and presented model results and insights to peers.

Modeling Blood Flow with Differential Equations

Fall 2024

Honors College, University of Houston

- Modeled blood flow with differential equations using RLC circuit analogies in MATLAB.

Wavelet Transforms: Cracking the Code of the Dicrotic Notch

Fall 2024

SIAM Undergraduate Colloquium, University of Houston

- Directed independent research in wave analysis and wavelet transforms with faculty mentorship.
- Applied mathematical tools to biomedical data, demonstrating applications of signal analysis.

ACTIVITIES

Cougar Athletics (President)

Jun 2024 – Present

- Competed in SCUDEM and Putnam competitions; facilitated Directed Reading Program connecting undergraduates with graduate mentors.

Crosby Association of STEM Excellence (Founder)

Sep 2024 – Present

Nonprofit supporting STEM education and scholarships in Crosby ISD.

- Coordinated alumni, teachers, and local businesses to fund and expand student opportunities.

TECHNICAL SKILLS

Programming & Tools: Python, MATLAB, Excel, L^AT_EX

Mathematical Modeling: Numerical Analysis, Partial Differential Equations, Advanced Linear Algebra, Probability, Cryptography

Other: Technical Communication, Data Analysis, Leadership, Organization Management