Alexander Julian Crabtree

(936) 242-5280 • acrabtree15@gmail.com • https://alexcrabt.github.io/Portfolio/

EDUCATION

TEXAS A&M UNIVERSITY, College Station, Texas

Aug. 2017 – May 2021

Bachelor of Science in Mathematics

- Minors in Physics and Astrophysics
- Cumulative GPA: 3.326/4.00

RESEARCH EXPERIENCE

TEXAS A&M AGGIENOVA, College Station, TX

Aug. 2020 - Sep. 2021

Research Assistant

- Developed Python scripts that made use of libraries, such as BeautifulSoup, to web scrape and manipulate data from astronomical databases.
- Progressed the SOUSA website by developing HTML/CSS scripts to update and refine the data stored there. See https://pbrown801.github.io/SOUSA/
- Utilized the Swift Optical/Ultraviolet Supernova Archive (SOUSA) data with Python scripts to create interactive UVOT filter light curve, color light curve, and color-color diagrams. See https://alexcrabt.pythonanywhere.com/
- Coordinated effectively with a team of 4 on joint projects utilizing GitHub.

EDUCATION EXPERIENCE

EDUCATION ONE, Frisco, TX

Sep. 2021 – Present

Physics and Mathematics Tutor

- Taught students in a group of up to 3 in areas of Mathematics, Physics, and English.
- Created Physics and Mathematics packets to aid in enhancing students' comprehension.
- Graded worksheets given to students while providing feedback.
- Aided students in preparation for the SAT/ACT tests through the tutoring of vital subjects.

POSTER PRESENTATIONS

Alexander C, Landon H, Mahir P, Emily S. AGGIENOVA Templates. Poster presented at Student Research Week, Texas A&M University; 2021 March 21 – 24; College Station, TX.

Alexander C, Jack P, Macie R, Emily S. AGGIENOVA: Supernova Explosions. Presented at Texas A&M Astrosymposium 2021, Texas A&M University; 2021 August 27; College Station TX.

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HONORS AND AWARDS

DEANS HONOR ROLL

TEXAS A&M UNIVERSITY Spring 2019, Fall 2020 – Spring 2021

AGGIE RESEARCH SCHOLAR

TEXAS A&M UNIVERSITY, AGGIE RESEARCH PROGRAMS

For completing research with the AGGIENOVA: Supernovae Explosions group as part of the Aggie Research Scholar Program in Spring 2021.

TECHNICAL SKILLS

Tools

MS Visual Studio | Github | TEXstudio | Microsoft Office Programs

Languages

Python | IRAF | HTML | CSS | LaTeX

ANALYTICAL SKILLS

Inductive & Deductive Reasoning | Critical Thinking | Problem Solving | Data Collection | Data Analysis/Visualization | Interpreting Results

SOFT SKILLS

Attention to Detail | Self-Learner | Time Management | Teamwork | Communication | Confident