

Grant G. Messner

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Overview

A sophomore at the California Institute of Technology (class of 2020) majoring in physics and minoring in computer science. Worked at Northwestern University during the Summer of 2017 doing astrophysics research. Has taken courses in statistics, quantum mechanics, differential equations, calculus, and classical physics, and has experience in several different programming languages.

Technical Skills

- Python (expert)
- Java (advanced)
- R (intermediate)
- C/C++ (intermediate)
- Mathematica (advanced)
- Matlab (intermediate)
- Microsoft Office and Google Drive (expert)

Work Experience

Northwestern University Astrophysics Research – Summer 2017

Investigated properties of black holes, such as scattering cross section, energy, and eccentricity, using the software Fewbody. Compared the effects of classical physics to general relativity, and produced figures to show the similarities and differences.

Lake Forest Baseball Association 8U Assistant Coach – Summer 2016

Educational History

California Institute of Technology (class of 2020)

GPA: 3.8/4.0

Physics Major

Computer Science Minor

Lake Forest High School (class of 2016)

GPA: 5.44/5.00

ACT: 35

Other Relevant Coursework

- Probability and Statistics
- Quantum Mechanics
- Differential Equations
- Statistical Mechanics
- Computational Physics Lab
- Single and Multivariable Calculus, Linear Algebra
- Newtonian Mechanics, Special Relativity, and Electromagnetism

Extracurricular Activities

- NCAA Division III Baseball
- Lake Forest High School Math Team
- Lake Forest High School Varsity Baseball/Football