

Jakob Bindas

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University of Pittsburgh, Department of Physics and Astronomy

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EDUCATION

University of Pittsburgh

Fall 2019 - Present

B.S. Physics and Astronomy

Expected Graduation: May 2023

GPA: 3.511/4.0

AWARDS

NASA Pennsylvania Space Grant Consortium Research Scholarship

January 2022

RESEARCH INTERESTS

Stellar evolution, star formation, black holes, gravitational waves, galaxy mergers, exoplanets

RESEARCH EXPERIENCE

Undergraduate Research

Fall 2021 - Present

Research Advisor: Prof. Carles Badenes and Christine Mazzola Daher

Analyzing core helium burning stars to find shorter period binary companions than otherwise expected

Survey of Transiting Extrasolar Planets at University of Pittsburgh (STEPUP) Fall 2021 - Present

Observe stars and collect data to produce light curves in order to determine if there is an exoplanet orbiting the observed star

SKILLS

Programming Languages: Java, Python

RELEVANT COURSEWORK

Galaxies and Cosmology	Currently Enrolled
Grade: N/A	
Thermodynamics and Statistical Mechanics	Currently Enrolled
Grade: N/A	
Stars; Stellar Structure and Evolution	Fall 2021
Grade: B+	
Computational Methods in Physics	Fall 2021
Grade: A	
Intermediate Electricity and Magnetism	Fall 2021
Grade: B+	
Wave Motion and Optics	Fall 2021
Grade: A	
Honors Introduction Astronomy	Spring 2021
Grade: B	
Mechanics	Spring 2021
Grade: A-	
Intermediate Thermal and Modern Physics	Fall 2020
Grade: B+	
Modern Physics Measurements	Fall 2020
Grade: A	
Differential Equations	Fall 2020
Grade: A	
Data Structures	Summer 2020
Grade: B	
Computer Organization and Assembly Language	Summer 2020
Grade: B+	
Analytic Geometry and Calculus 3	Spring 2020

Grade: A

Intermediate Programming Using Java

Spring 2020

Grade: A

Introduction to Matrices and Linear Algebra

Spring 2020

Grade: B

Analytic Geometry and Calculus 2

Fall 2019

Grade: A