



Brown University
Class of 2021
B.S. Astrophysics

contact

+1 781 - 296 - 0344
sarah_bawabe@brown.edu
linkedin.com/sarah-bawabe
facebook.com/sarah.bawabe

relevant coursework

COMPLETED

Linear Algebra
Multivariable Calculus
Intro to Object-Oriented Programming
Intro to Algorithms & Data Science
Intro to Scientific Computing
Electromagnetism & Modern Physics
Electricity & Magnetism
Intro to Astronomy & Astrophysics
Introduction to Cosmology
Advanced Classical Mechanics

CURRENT/UPCOMING

Quantum Mechanics
Extragalactic Astronomy
Intro to Software Engineering
Machine Learning
User Interfaces & User Experience

extra-curriculars

Member of Theta Delta Chapter
of Delta Gamma

Volunteer for Brown's Elementary After-School Mentoring (BEAM) Program

Member of the Club Field Hockey Team

Employee at PVDonuts (Rhode Island's
First Specialty Donut Shop)

technical strengths

Java (advanced)	Adobe Photoshop (advanced)
Python (advanced)	Adobe Illustrator (advanced)
Mathematica (intermediate)	Adobe LightRoom (advanced)
MATLAB (intermediate)	Adobe InDesign (intermediate)
LaTeX (advanced)	Adobe XD (intermediate)
Figma (intermediate)	Microsoft Office (advanced)

experience

Research Assistant (Theoretical Cosmology)

Professor Stephon Alexander | February 2019 - present

Studied the early universe during its inflationary period and further developed a multi-field model that would be extensible to a wide variety of experimental CMB observations.

Attendee and Speaker at MIT's Undergraduate Cosmology Workshop

Alan Guth, David Kaiser, et al. | August 2019

Attended and lectured at a two-day multi-collegiate workshop series devoted to undergraduates pursuing research within the field of cosmology.

Attendee of Cosmic Linear Anisotropy Solving System (CLASS) Lectures

Taught by Julien Lesgourges | July 2019

Attended a two-day lecture series regarding Lesgourges's famous CLASS computer program, which calculates and models anisotropies in the CMB, and how to use and modify its core code in order to create additional functionalities.

Summer Student Theoretical Physics Research Session (SSTPRS)

Professor Sylvester Gates | June - August 2018

Explored various concepts in order to create a sufficient background for researching supersymmetry under the supervision of Theoretical Physicist and Brown University Professor Jim Gates.

positions of responsibility

Teaching Assistant for CSCI 0150

Professor Andries Van Dam | August 2019 - present

Leader of Brown's Physics WiSE

Women in Science & Engineering | February 2019 - present

recognitions

Recognized in News@Brown for participation in SSTPRS
<https://news.brown.edu/articles/2018/07/bawabe>