

William Kwako

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wkwako.github.io

EDUCATION

B.A., Physics, Willamette University, Salem, OR

Graduation date: May 2019

GPA: 3.62

Senior Thesis: *Looking for the BAO Signal in the 2MRS Using the Wavelet Transformation*

WORK EXPERIENCE

Teacher's Assistant – Willamette University, Physics Department January 2019 - May 2019

- Guided Students through computational and experimental Introductory Physics 2 laboratory exercises
- Answered questions about class material and evaluated students' performance

Intern – Willamette University, Physics Department May 2018 - July 2018

- Analyzed frequency and location of baryon acoustic oscillations in 2MRS
- Located two BAOs with signals and characteristics agreeing with results of previous studies
- Worked closely with professor and peers to build computer capable of running code off its GPU

Volunteer – UCSB Department of Cosmology July 2017

- Assisted research staff in measuring the maximum intensity of light receivable by photodiodes
- End goal of sending small satellites to Proxima Centauri propelled by lasers and a solar sail system

Volunteer – UCLA Ronald Reagan Medical Center, Department of Neurology Summer 2015 and Summer 2016

- Administered standardized cognitive assessments and health surveys to study participants of longitudinal trials studying Huntington's Disease and Friedreich's Ataxia
- Entered clinical data using electronic data capture systems in compliance with study protocol

UNIVERSITY SERVICE

Co-Founder, Secretary – Aerospace Exploration Organization, Willamette University April 2018-Present

- Help plan events and advertise club meetings to students
- Facilitate and secure guest speakers

POSTERS AND PRESENTATIONS

- Kwako W., Watkins, R. (2019, January). *Analyzing the Frequency and Location of Baryon Acoustic Oscillations Using Wavelet Transformations*. Poster presented at 223rd Meeting of the American Astronomical Society, Seattle, WA.
- Kwako W., Watkins, R. (2018, November). *Analyzing the Frequency and Location of Baryon Acoustic Oscillations Using Wavelet Transformations*. Poster presentation at the Murdock College Science Research Conference, Vancouver, WA.
- Kwako W., Watkins, R. (2018, September). *Analyzing the Frequency and Location of Baryon Acoustic Oscillations Using Wavelet Transformations*. Oral presentation as a part of Science Collaborative Research Program, Salem, OR.

SKILLS

Software

- Acquainted with Linux OS
- Proficient with LaTeX

Hardware

- Arduino-Based Electronics
- Experience with building computers

Programming

- Proficiency with Python
- Familiarity with SQL
- Coursework completed in Java

HONORS AND AWARDS

Murdock Charitable Trust College Research Program for the Natural Sciences (\$5500)

Summer 2018

Willamette University College Honors

Spring 2016 – Spring 2019

Jason Lee Scholarship

Fall 2015 – Spring 2019

REFERENCES

Rick Watkins, PhD

Professor

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