

ZAIN ABHARI

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EDUCATION

University of Wisconsin - Madison, Madison WI June 2021 - Present
Doctor of Philosophy in Physics
Doctoral Minor in Chemistry

Florida State University, Tallahassee FL August 2017 - April 2021
Bachelors of Science in Physics with honors
Minor in Mathematics
Cum Laude

WORK EXPERIENCE

Research Assistant at University of Wisconsin - Madison June 2021 - Present
Graduate Researcher

- Building a Non Collinear Optical Parametric Amplification (NOPA) set up to be used for an extreme ultraviolet (XUV) laser. The laser will then be used for future experiments yet to be determined

Research Assistant at SLAC National Accelerator Laboratory June 2020 - June 2021
Undergraduate Researcher

- Use MATLAB to analyze data from different experiments conducted at SLAC in order to help develop an experimental technique, ghost imaging spectroscopy, to extend the current state of the art to more materials

CMS Group at Florida State University May 2018 - June 2020
Undergraduate Researcher

- Analyzed data collected at CERN using ROOT to further understand how the detector functioned after being exposed to high amounts of radiation.
- Tested silicon wafers to develop data analysis methods for the new High Granularity Calorimeter.

Florida State University Physics Department August 2019 - April 2021
Learning Assistant

- Used Socratic teaching in the classroom twice a week to help 30 to 70 students, depending on the course, solve problems covering a wide variety of intermediate physics topics.
- Led weekly homework help sessions for about 10 to 15 students.

Academic Center for Excellence August 2018 - November 2019
Math Studio Tutor

- Tutored students in all math courses through Partial Differential Equations and Complex Variables for nine to ten hours a week.

SKILLS AND ABILITIES

Software & Tools	LABView, C++, Python, ROOT, MATLAB, Latex, Unix
Operating Systems	Windows, macOS, Linux, Ubuntu

EXTRA-CURRICULAR

President of Society of Physics Students

Attended APS CUWiP Conference in 2018, 2019, and 2020

Poster presentation at DAMOP 2021

AWARDS

Dean's List — Fall 2017, Spring 2018, Fall 2018

Lynn Shannon Proctor Fellowship — Spring 2020

Clara Kibler Davis Scholarship — Spring 2021