

Yoquelbin Salcedo Hernandez

Curriculum Vitae

Dept. of Physics and Astronomy, University of Pittsburgh
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EDUCATION

- Ph.D. in Physics** Expected Graduation 2027
University of Pittsburgh, Pittsburgh, PA, USA
- M.S. in Physics** 2021 – 2023
University of Pittsburgh, Pittsburgh, PA, USA
- B.S. in Physics** 2017 – 2021
The Pennsylvania State University, University Park, PA, USA

RESEARCH

University of Pittsburgh , PA

Graduate Research Assistant with Prof. Jeffrey Newman & Prof. Brett Andrews 2022 – present

- Developing Emission Line Galaxy Target Selection algorithm for Dark Energy Spectroscopic Instrument (DESI)-2

The Pennsylvania State University – University Park, PA

Undergraduate Research Assistant with Prof. Isaac Mognet 2020 – 2021

- Simulated dark matter scintillation detector data using Geant4 software for GAPS detector

AWARDS & HONORS

- Cosmology summer school at the ICTP 2024
- LSSTC Data Science Fellowship Program 2023 – present
- Arts & Sciences Graduate Fellowship 2021 – present
- Full academic scholarship to The Pennsylvania State University 2017–2021
- Granville B. Lane Memorial Scholarship 2020
- Dudley and Aaby Scholarship in Physics 2019
- 2nd Place Award Winning Debate Team 2019
- Penn State Eberly College of Science Dean Scholarship Program 2018
- 1st Place Winner of Penn State Lehigh Valley Public Speaking Award 2018
- Campus 4 Year Provost Scholarship 2017
- Glass Trustee Scholarship 2017

RESEARCH TALKS

- 'Designing A Next-Gen BAO Experiment: ELG Target Selection for DESI-2', University of Sydney 2024

- 'Improved ELG selection for DESI-2', Harvard University 2024
- 'Designing A Next-Gen BAO Experiment: ELG Target Selection for DESI-2', University of Padua 2024
- 'Designing A Next-Gen BAO Experiment: ELG Target Selection for DESI-2', University of Texas at Dallas 2023
- 'Selecting ELG's for DESI-2', Durham University 2023

INVOLVEMENT

- DESI Early Career Scientist Committee 2023
 - Member, liaison for Meetings committee
- Graduate Student Mentor 2023
 - Mentor two or more incoming Ph.D. students, University of Pittsburgh

OUTREACH

- Higher Education Advocacy
 - 'Tips on Success in Graduate School', Penn State University Park 2023
 - 'The Importance of College', Penn State Lehigh Valley 2021
 - 'Optimizing the College Experience', Louis E Dieruff High School 2018
- General Public Outreach
 - 'Creating the largest 3D map of the universe using DESI', Two Frays Brewery 2024
 - 'Studying Dark Energy with DESI', FOX29 Science Show 2024
 - 'Why Dark Matter Matters', Lolev Beer Brewery 2023
- Coding
 - 'Advanced NumPy', University of Pittsburgh AstroPGH Bootcamp 2024
 - 'NumPy Basics', University of Pittsburgh 2023

LANGUAGES

- English (native language)
- Spanish (fluent)