Yoquelbin Salcedo Hernandez

Curriculum Vitae

Dept. of Physics and Astronomy, University of Pittsburgh
yoquelbinsalcedo.github.io
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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 photometric redshift calibration methods Roman Space Telescope
- 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 General AntiParticle Spectrometer detector

AWARDS & HONORS
- Cosmology summer school at the ICTP   2024
- LSSTC Data Science Fellow   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', **Invited**, Institute for Theory and Computation Luncheon, Harvard University   2025
- 'Designing A Next-Gen BAO Experiment: ELG Target Selection for DESI-2', **Invited**, Sydney Institute for Astronomy Seminar, 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)