Aidan Gardner-O'Kearny

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Education _____

PhD	Univeristy Of Tennessee, Knoxville, Physics	Sept 2025 - Present
MS	Univeristy Of Tennessee, Knoxville, Physics	Sept 2025 - Present
BS	University of Oregon, Physics - Clark Honors College	Sept 2021 – Jun 2025

• **Honors Thesis:** Combinatorial fake discriminatory selections for combined dE/dx and disappearing track search with the ATLAS detector

Research Experience __

Jeanty Group - Undergraduate Research Assistant

• Worked with Dr. Laura Jeanty as a part of the ATLAS Collaboration

 Part of upcoming dE/dx and disappearing track signature analysis for long-lived, massive, charged particles

Brookhaven National Lab - SULI Intern

- Worked with Dr. Abraham Tishelman-Charny as a part of the ATLAS Collaboration

- Member of upcoming $SH\to b\bar b\gamma\gamma$ analysis searching for beyond Standard Model scalar bosons

Teaching Experience _____

UO Tutoring and Academic Engagement Center - Class Encore Mentor

• Leadership role within the Class Encore program

UO Tutoring and Academic Engagement Center- Class Encore Leader

 Support students in introductory courses in order to increase confidence in lecture material

Oregon Pathways to Industry Research Careers - OPIRC Tutor

Multivariable calculus tutor

UO Physics Department - Introductory Physics Learning Assistant

• Member of the general physics educational team

Eugene, OR

Jun 2023 - Jun 2025

Upton, NY

Eugene, OR

Eugene, OR

Jun 2024 – Aug 2024

Sept 2022 - Jun 2025

Jun 2024 - Jun 2025

Eugene, OR

Apr 2025 - Jun 2025

Eugene, OR

Apr 2024 - Jun 2024

Presentations ____

Combinatorial fake discriminatory selections for combined dE/dx and disappearing track search

• UO Undergraduate Research Symposium

- Oral presentation
- · Poster presentation
- · Aidan Gardner-O'Kearny

dE/dx and disappearing track background discrimination studies

• UO Clark Honors College Three Minute Thesis

- Oral presentation
- · Aidan Gardner-O'Kearny

May 2025

April 2025

Background ionization behavior for combined dE/dx and disappearing track analysis in the ATLAS detector

March 2025

- · APS Global Summit
- Oral Presentation
- Aidan Gardner-O'Kearny, Laura Jeanty, Nathan Young

Comparing resolved and boosted jet identification algorithms to search for beyond the Standard Model scalar bosons with the ATLAS detector

August 2024

- · Brookhaven SULI Intern Research Fair
- · Poster Presentation
- Aidan Gardner-O'Kearny, Abraham Tishelman-Charny, Elizabeth Brost

Background ionization behavior for combined dE/dx and disappearing track analysis

May 2024

- UO Undergraduate Research Symposium
- Poster Presentation
- · Aidan Gardner-O'Kearny, Laura Jeanty, Nathan Young

Awards ____

UO Physics Department Weiser Research Award UO Physics Department Poster Award - 2nd Place

June 2025

June 2025

• Combinatorial fake discriminatory selections for combined dE/dx and disappearing track search

UTK Graduate Fellowship

Feb 2025

UO CURE Travel Grant Awardee

Nov 2024

Award given to support undergraduates present their research at a relevant conference

Sept 2021

Academic excellence scholarship

Outreach _

Eugene Science Center

UO Summit Scholar

Nov 2024

- · Organized an outreach event for elementary school students
- Provided undergraduate students opportunity to perform demos

Membership _

Phi Beta Kappa American Physical Society June 2025 Oct 2024 - Present

• Student Member

Society Of Physics Students

Jun 2023 - Jun 2025

• UO Chapter Treasurer

Skills _____

Languages: Python, C++, TEX/Markdown, Mathematica

Technologies: Linux, Windows, ROOT, Matplotlib/MPLHEP, Git, Google And Microsoft Office Suite