Matthew Durbin, Ph.D. Candidate

📍 The Pennsylvania State University, Department of Nuclear Engineering

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Education

2017 – 2022	⚛	**Ph.D. Nuclear Engineering, The Pennsylvania State University** *Ken and Mary Alice Lindquist Department of Nuclear Engineering*
2013 – 2017	⚛	**B.S. Physics, The University of Texas at Austin** *Department of Physics*

Experience

2017 – ····	⚛	**Graduate Assistant, The Pennsylvania State University** *Ken and Mary Alice Lindquist Department of Nuclear Engineering* Research: Radiation detection and machine learning applications for nuclear safeguards and security Teaching Assistant: Radiation Detection and Measurements Laboratory Course
2015 – 2017	⚛	**Undergraduate Assistant, The University of Texas at Austin** *Nuclear Engineering Teaching Laboratory* Research: Radiation detection and nuclear forensics Teaching Assistant: Health Physics Laboratory Course
Summer 2016	⚛	**Medical Physics Intern, The University of Texas Medical Branch** *Department of Radiation Oncology, Physics Division*

Honors and Awards

Fellowship	⚛	**Nuclear Regulatory Commission Graduate Fellowship Program** (2019 – ····)
Scholarship	⚛	**Nuclear Regulatory Commission Undergraduate Scholarship** (2015 – 2017)
Awards	⚛	**J. D. Williams Student Paper Award** 2020 Best Poster. **J. D. Williams Student Paper Award** 2019 Division Finalist: Nuclear Security and Physical Protection, **J. D. Williams Student Paper Award** 2019 Division Finalist: Education & Training Student Research Initiative Winner
Grants	⚛	**Valentin T. Jordanov Radiation Instrumentation Travel Grant** (2019), **IEEE NSS-MIC Trainee Grant** (2019, 2020), **PSU Global Programs Graduate Student Travel Grant** (2019, Two time recipient)
Honor Societies	⚛	**Alpha Nu Sigma** - *Nuclear Engineering Honor Society*, **Sigma Pi Sigma** - *Physics Honor Society*

Skills

Coding	⚛	Python (NumPy, pandas, SciPy, matplotlib, SQLite, scikit-learn, TensorFlow), SQL, Matlab, MS Excel, LaTeX, MCNP (PTRAC, VisEd), Arduino
Technical	⚛	Gamma ray spectroscopy, data acquisition/analysis/visualization, machine learning, typesetting, teaching