Matthew Durbin, Ph.D. Candidate

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🌐 https://matthewdurbin.github.io/

https://www.bit.ly/googlescholar-mdurbin

in https://www.linkedin.com/in/matthewdurbin-psu/

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 to 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

Graduate Fellowship   **Nuclear Regulatory Commission Graduate Fellowship Program** (2019 – ····)

Scholarship   **Nuclear Regulatory Commission Undergraduate Scholarship** (2015 – 2017)

Awards   **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), **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, Arduino, MCNP (PTRAC, VisEd)

Misc.   Gamma ray spectroscopy, data acquisition/analysis/visualization, machine learning, typesetting, teaching