PETER G. HOTVEDT

2301Bonisteel Blvd, Ann Arbor, MI48105(612) 310-7505 \diamond photvedt.github.io \diamond photvedt@umich.edu

EDUCATION	
University of Michigan	Ann Arbor, Michigan
Ph.D. Student, Nuclear Engineering	Aug 2021 - Present
· Research Advisor: Dr. Zhong He	
University of Wisconsin - Madison	Madison, Wisconsin
B.S. Nuclear Engineering - Radiation Sciences Track	Sep 2016 - Dec 2020
· Additional Major in Mathematics - Applied Track	
· Certificate in Physics	
· Undergraduate Research Advisor: Dr. Sean Fain	
Zhejiang University	Hangzhou, China
Study Abroad	May 2018 - Jul 2018
ESEARCH	
Orion Radiation Measurement Group, University of Michigan	Ann Arbor, Michigan
Graduate Student Research Assistant	Aug 2021 - Present
\cdot Developing imaging modalities for cadmium zinc telluride (CZT) semiconductor radiation detectors.	
Fain Group and Center for Accelerated Medical Imaging	Madison, Wisconsin
Undergraduate Research Assistant	Sep 2018 - Jul 2021
· Investigated various topological metrics from MRI and CT images, related to the lung on a whole-lung, lobar, and sub-lobar level.	
· Developed and maintained group MATLAB code for image segmentation and analysis.	
NVOLVEMENT AND LEADERSHIP	
Professional Involvement	
American Nuclear Society (ANS)	
· Vice Chair, Student Sections Committee (SSC)	May 2022 - Jun 2023
· Liaison for Isotopes and Radiation Division (IRD) - SSC / Young Member	
Group (YMG)	June 2021 - Presen
· Vice Chair, Public Policy Subcommittee - SSC	June 2020 - Presen
· SSC Member	June 2020 - Presen
American Nuclear Society - University of Michigan Student Section	
· Member	Aug 2021 - Presen
Nuclear Engineering Student Delegation	
· Co-Vice Chair, 2021 Delegation	Dec 2020 - Oct 202
· Member, 2020 Delegation	Jun 2020 - Nov 202

American Nuclear Society - U.W. Madison Student Section

· President

May 2019 - May 2020

· Governor A - Local Section Outreach Coordinator

January 2019 - May 2019

Academic and Departmental Involvement

Nuclear Engineering / Engineering Physics Student Advisory Committee

· Undergraduate Chair

Apr 2019 - Dec 2020

Dead Mathematician's Society - U.W. Math Club

· President · Vice President May 2019 - May 2020

May 2018 - May 2019

Other Involvement

PersonaCon

· Admin and Emcee, 2022 Virtual Convention

Jan 2022 - Jul 2022

· Admin and Emcee, 2021 Virtual Convention

Jan 2021 - Jul 2021

CONFERENCE PUBLICATIONS

Local fSAD Features Derived from CT Topological Parametric Response Maps Are Associated with Ventilation Defects on Hyperpolarized Gas MRI in Asthma

Dallas, TXMay 2019

American Thoracic Society 2019 International Conference

D. Mummy, B.A. Hoff, P. Hotvedt, C. Hatt, K.J. Carey, A. Fortuna, W. Zha,

M. Schiebler, R. L. Sorkness, L.C. Denlinger, N.N. Jarjour, C.J. Galban, S.B. Fain

POSTERS

Validation of Quantitative Air-Trapping on CT using Ventilation Imaging on Hyperpolarized Gas MRI

2019 American Nuclear Society Winter Meeting

Washington, DC Nov 2019

P. Hotvedt, K.J. Carey, C. Hatt, C.J. Galbán, S.B. Fain

HONORS & AWARDS

Alpha Nu Sigma

WORK EXPERIENCE

United States Census Bureau

2020 Census Post-Enumeration Surveyor

Madison, Wisconsin Jun 2021 - Sep 2021

- · Door-to-door enumerator for the state of Wisconsin, involved interpersonal interaction and regular travel.
- \cdot Conducted interviews by reading and communicating with government processes in both English and Spanish as needed.

UW Carbone Cancer Center

Student Intern

· In-office student assistant for the internal auditing group for medical clinical trials.

Madison, Wisconsin Oct 2017 - Dec 2020 · Updated internal knowledge base through learned knowledge of HTML, and medical reports were categorized and logged accordingly.

United States Census Bureau

2020 Census Enumerator

Minneapolis, Minnesota Aug 2020 - Oct 2020

- \cdot Door-to-door enumerator for the greater Minneapolis area, focusing particularly on North Minneapolis suburbs
- · Enumerated population by reading and communicating with government technology in both English and Spanish as needed.

PROFESSIONAL ORGANIZATION MEMBERSHIP

Since 2021 Graduate Student Member Institute of Electrical and Electronics Engineers
Since 2017 Student Member American Nuclear Society

RELEVANT TECHNICAL AND PROFESSIONAL SKILLS

Software & Tools

MATLAB, C++, MCNP6.2, R Studio, Language & Communication

MATLAB, C++, MCNP6.2, R Studio, Language & HTEX, HTML

Planning and enacting of long-form live productions with OBS

Fluent in English, communicative in Spanish, proficient in French