PETER G. HOTVEDT

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EDUCATION

University of Michigan	Ann Arbor, Michigan
Ph.D. Student, Nuclear Engineering	Aug 2021 - Presen
· 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 - Presen
· Developing imaging modalities for cadmium zinc telluride (CZT) semiconductor radiation detectors.	
Fain Group and Center for Accelerated Medical Imaging	Madison, Wisconsir
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.	
\cdot 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 202
 Liaison for Isotopes and Radiation Division (IRD) - SSC / Young Member Group (YMG) 	June 2021 - Preser
· Vice Chair, Public Policy Subcommitee - SSC	June 2020 - Preser
· SSC Member	June 2020 - Preser
American Nuclear Society - University of Michigan Student Section	

Nuclear Engineering Student Delegation

	\cdot Co-Vice Chair, 2021 Delegation	Dec 2020 - Oct 2021
•	\cdot Member, 2020 Delegation	Jun 2020 - Nov 2020

American Nuclear Society - U.W. Madison Student Section

 President Governor A - Local Section Outreach Coordinator 	May 2019 - May 2020 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	May 2019 - May 2020
· Vice President	May 2018 - May 2019

Other Involvement

PersonaCon

· Admin and Emcee, 2022 Virtual Convention	Jan 2022 - Jul 2022
\cdot 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, TX
American Thoracic Society 2019 International Conference	May 2019

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	$Washington, \ DC$
2019 American Nuclear Society Winter Meeting	Nov 2019
P. Hotvedt, K.J. Carey, C. Hatt, C.J. Galbán, S.B. Fain	

HONORS & AWARDS

2022 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.	-
• Conducted interviews by reading and communicating with government processes in both English and Spanish as needed.	
UW Carbone Cancer Center	Madison, Wisconsin
Student Intern	Oct 2017 - Dec 2020

 $\cdot\,$ In-office student assistant for the internal auditing group for medical clinical trials.

• Updated internal knowledge base through learned knowledge of HTML, and medical reports were categorized and logged accordingly.

United States Census Bureau

2020 Census Enumerator

- $\cdot\,$ Door-to-door enumerator for the greater Minneapolis area, focusing on North Minneapolis suburbs
- $\cdot\,$ 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, $ \mathbb{A}T_{E}X$, HTML
Live Media Production	Planning and enacting of long-form live productions with OBS
Language & Communication	Fluent in English, communicative in Spanish, proficient in French

Minneapolis, Minnesota Aug 2020 - Oct 2020