

Samuel A. Hurley

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Objectives

- Pursue a graduate education in medical physics, specifically diagnostic imaging
- To develop a better quantitative understanding of biological processes
- To study and research imaging applications to neuroscience and cancer treatment

Professional Goals

- To become a researcher in the clinical environment
- To become a board certified medical physicist
- To become a fellow or active member of the ACR and AAPM

Experience

May 2007 – Present	Undergraduate Lab Assistant	Applied Neuro MRI Lab
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- Department of Medical Physics, University of Wisconsin – Madison
- Develop custom software to integrate fMRI results into neurosurgical navigation system
- Analysis of functional MRI data using AFNI and SPM software packages.
- Learning pulse sequence programming on Varian 4.7T small animal MRI
- Submitted poster abstract to ISMRM 2008 conference.
- **Contact:** M. Beth Meyerand (<http://zoot.radiology.wisc.edu/fmri/>)

2004 – Present	IT Desktop Support	Dept. of Rural Sociology
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- College of Agricultural & Life Sciences, University of Wisconsin – Madison
- One of two IT specialists maintaining a Windows 2003 server environment
- Maintain server systems such as web, file, and terminal servers.
- Work with end users to implement IT-based solutions or troubleshoot issues
- **Contact:** Peter Nepokroeff (nepokroe@wisc.edu)

Education

2004 – 2008	University of Wisconsin – Madison	Madison, WI
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- B.S., Physics (May 2008)
- Emphasis on coursework relevant to medical imaging:
 - Medical Imaging of Disease
 - Introductory Chemistry and Biology
 - Optics
 - Microscopy of Life
 - Computational Methods in Medical Image Analysis (Spring 08)

2000 – 2004	Waukesha North High School	Waukesha, WI
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- High honor roll, National Honor Society
- Member, Northstar Marching Band.
- Outstanding senior award – Symphonic Band

Associations

- AAPM (American Association of Physicists in Medicine) – Student Member
 - Attended AAPM 2007 Conference in Minneapolis, MN
- Society of Physics Students – Member
- University Physical Society – Officer & Webmaster
- Kappa Eta Kappa, Electrical Engineering Professional Fraternity – Secretary (Spring 08)

Relevant Skills

- Exposure to CT, MRI, PET, and US imaging modalities
- Experience with fMRI Analysis packages AFNI and SPM
- Experience with Matlab programming.
- Extensive knowledge of DICOM and NIfTI image specifications
- Experience with Linux and UNIX computing environment.
- Computer and networking design and troubleshooting.

Volunteer Experience

Fall 2006 – Present	University Physical Society	UW Physics Club
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- Coordinator officer, 2007-2008. Organize trips and social activities.
- Club webmaster, maintain website with current events and information
- Work with physics faculty members, staff, and students to promote jobs, research opportunities, and graduate programs to our members
- **Web:** <http://ups.physics.wisc.edu/>

Fall 2007 – Present	Physics Fair
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- Help to brainstorm and coordinate new event for public outreach
- Promote research and basic physics demonstrations to general public
- Creating medical imaging display to represent the Applied Neuro MRI Lab.
- **Web:** <http://uw.physics.wisc.edu/~wonders/PhysicsFair.html>

Spring 2007 – Present	UW Space Place	Dept. of Astronomy
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- Volunteer to facilitate public "open house" on Friday nights for education and outreach
- Adults, children, and families have a chance to use high-end telescopes and explore an astronomy museum.
- **Web:** <http://spaceplace.wisc.edu/>