Eric Peterson

608.301.5638
ericpetersongm@gmail.com
http://www.linkedin.com/in/etpeterson

Summary

Detail oriented professional with over 10 years of technical and research experience on a wide range of research and development projects. Focus on MRI physics/engineering and data analysis, requiring strong problem solving, collaboration, communication, leadership, and product development skills across multiple disciplines.

Education

Ph.D., Biomedical Engineering **2010**
University of Wisconsin – Madison

M.S., Biomedical Engineering **2007**
University of Wisconsin - Madison

B.S., Biomedical Engineering **2005**
University of Iowa

Proficiencies

Research and development for clinical studies

Software engineering and data science in Python, Perl, Linux shell, R, and Matlab

Other

1 patent

2 book chapters written

1 book edited

7 full or co-authored scientific papers

20+ presentations at scientific conferences

Google Summer of Code mentor

Experience

Research Scientist **June 2015-Present**

SRI International: Biosciences

- Establish and improve multi-site clinical protocol and analysis methods with collaborators
- Develop algorithm and analysis to evaluate iron deposition in the brain
- Develop real-time fMRI motion plotting
- Develop Arduino-based fMRI stimulus controller
- Develop image acquisition and fitting algorithm to distinguish slow and fast flowing water

Staff Scientist **2012-May 2015**

Stanford University: Radiology

- Developed and maintained custom acquisition, reconstruction, and analysis for time-critical clinical stroke MRI at Stanford hospital
- Collaborated with clinicians to advance stroke MRI in Stanford and multi-center studies
- Developed calibrationless EPI ghost correction
- Implemented multi-band DTI and perfusion MRI

Postdoctoral Researcher **2011-2012**

University of Bordeaux: Imaging Laboratory

- Developed a high-resolution DTI acquisition and reconstruction for Alzheimer's Disease

Research Associate **2005-2011**

University of Wisconsin – Madison: Medical Physics

- Developed simultaneous proton and carbon MRI
- Developed fast MRI trajectory correction