

Monica Keith

Medical College of Wisconsin • Department of Neurology

Relevant Skills

Programming

- More than 10 years of experience in Unix Shell scripting. 4+ years of experience in Python, SQL, and Matlab. Knowledge of Java.
- Experience working with Java and Python IDEs such as Eclipse, Visual Studio, XCode and PyCharm.
- Experience with software design tools like Visual Paradigm and ArgoUML.
- Experience with agile software development methods.
- Experience writing algorithms with complex data structures to efficiently use computer resources when analyzing large amounts of neuroimaging data.

Medical Devices and Health Care

- More than 6 years of experience analyzing MRI images, performing quality control and correcting artifacts induced by the scanner or subject movement.
- More than 6 years of experience with neuroimaging software tools (SPM/Matlab, Conn ToolBox, AFNI, FSL, Freesurfer, ANTS, MRICron).

Project Management

- Lead continuously evolving research projects with multi-functional and multi-site teams.
- Demonstrated strong collaboration skills (7 collaborative projects that have led to publications in high-impact scientific journals).
- High self-organization, motivation and capacity to quickly adapt to changes.
- Organized and carried out a programming workshop for neuroscientists.

Technical Experience

Databases: MySQL.

Programming: Java, Python, Matlab, Shell Scripting, SQL, HTML, JSP.

Operating Systems: Linux (Ubuntu, CentOS), Macintosh.

Work History

Medical College of Wisconsin, WI – May 2019 to Present

Research Engineer II

Medical College of Wisconsin, WI – August 2018 to May 2019

Postdoctoral Research Fellow in Neuroimaging of Concussion

Mayo Clinic, MN – June 2017 to June 2018

Postdoctoral Research Fellow in Neuroimaging of Multiple Sclerosis

Vanderbilt Medical Center, TN – February 2015 to June 2017

Postdoctoral Research Fellow in Neuroimaging of Psychosis

Hospital Clinic, Barcelona, Spain – September 2010 to June 2011

Research Intern

Education

Doctorate in Neuroscience	University of Barcelona. Spain.	2011 - 2014
Master in Biomedical Engineering	University of Barcelona. Spain.	2009 - 2011
Bachelor in Computer Engineering	University of Almeria. Spain.	2004 - 2009