The Center for Scientific Computation in Imaging is recruiting a postdoctoral scholar for a diffusion MRI project

We are looking for a postdoctoral scholar with a background in MR physics and an interest in the application of advanced diffusion MR imaging (dMRI) for an NIH-funded study on Alzheimer’s disease. You will be part of a multidisciplinary team of experts developing a novel dMRI acquisition and analysis method for detecting grey and white matter changes appearing early in the progression of the disease. In this position you will be continuing development of a novel double pulsed field gradient (dPFG) acquisition, including sequence testing and optimization, performing experiments on human subjects, and analyzing the data using novel computational methods. Hired by the Institute for Engineering in Medicine, your work environment will be the Center for Scientific Computation in Imaging (CSCI) and the UCSD Center for Functional MRI (CFMRI). The position is full-time with benefits and available now.

The University of California San Diego is ranked among the world’s top Universities (currently No. 20 in US News Best Global Universities) with San Diego consistently ranking among the best cities to live in the US. Established in 2006, CSCI focuses on developing innovative computational approaches for the exploration of complex imaging data through use of novel image acquisition, analysis, modeling, simulation, and visualization methods, including but not limited to anatomical, functional, and diffusion MRI. CFMRI has been providing cutting-edge imaging and computer technology to the San Diego research community for over 20 years, enhancing innovation and discovery in the biomedical sciences.

Responsibilities
- Develop, test, and validate novel methods for dMRI acquisition and analysis
- Communicate your results to the research and clinical community through publications in international conferences and journals
- Work with a great deal of independence in achieving research goals

Qualifications
- Completed Ph.D. in Physics, Neuroscience, Engineering, Computer Science, and/or a medical imaging related field, with solid experience in MR neuroimaging
- Fluency with GE Discovery or Siemens MAGNETOM Prisma programming environment is required
- Strong programming skills, e.g., in Matlab, Python, C++
- Experience in dementia research is also a plus
- Passion for research and willingness to work in cutting edge scientific environment
- Excellent record of publishing in relevant, high-quality journals in the above fields
- Excellent communication abilities in English, both spoken and written

To Apply: Interested candidates should email their CV including a full list of publications and a short statement of research interests to Dr. Lawrence R. Frank (lawrence.r.frank@gmail.com)