Postdoctoral Position in Multiphoton MRI at University of California, Berkeley

Research Interest:

We are seeking a postdoctoral fellow to develop and apply multiphoton magnetic resonance imaging (MRI) techniques. Today’s MRI assumes single-photon excitation. That is, for each nuclear spin, a single photon accompanies the transition between energy states. This photon must resonate near the Larmor frequency. In comparison, multiphoton MRI excites multiphoton resonances to generate signal for MRI by using multiple magnetic field frequencies, none of which is near the Larmor frequency. Only the total energy absorbed by a spin must correspond to the Larmor frequency. More details about multiphoton MRI can be found in our recent paper in Magnetic Resonance in Medicine:


In addition to multiphoton MRI, the fellow will also have opportunities to work on other MRI projects.

Qualifications:

1. A recent PhD in physics, engineering or related fields;
2. Strong background in NMR/MRI physics;
3. Experiences in NMR/MRI hardware is preferred;
4. Experiences in electric circuits.

Appointment Length:

This is a full-time position and available immediately. It will start initially for one year with the possibility of being extended based on performance and sustainable funding availability.

About UC Berkeley

UC Berkeley has a vibrant MRI research environment with multiple MRI research labs. The university has a one 1T permanent magnet MRI scanner (Aspect), one 3T GE scanner, one 3T Siemens scanner and one 7T Siemens scanner with high-performance gradient and RF coils.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct.

To apply, please submit:

- Cover Letter
- Curriculum Vitae
- Contact information of 3 references (Letters of reference may be requested of finalists)

Contact: Prof. Chunlei Liu
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