



Postdoctoral Opportunities at the
National Research Resource for Quantitative Functional Magnetic Resonance Imaging
Baltimore, Maryland USA.

The Research Resource combines strengths of:

- **F.M. Kirby Research Center for Functional Brain Imaging**,
Kennedy Krieger Institute <<http://mri.kennedykrieger.org>>;
- **Center for Imaging Science**,
Johns Hopkins University <<http://www.cis.jhu.edu>>;
- **Statistical Methods and Applications for Research in Technology (SMART) Group**,
Department of Biostatistics, Johns Hopkins University Bloomberg School of Public Health
<<http://www.smart-stats.org>>.

The F.M. Kirby Research Center, a partnership between Kennedy Krieger Institute and the Department of Radiology of the Johns Hopkins University, houses three research-dedicated human MRI scanners, two at 3.0 Tesla and one at 7.0 Tesla, as well as small-bore preclinical MRI scanners at 11.7 Tesla (horizontal bore) and 17.6 Tesla (vertical bore). The Kirby Center is a nationally recognized (NIH P41 funded) resource for MR technology development.

The postdoctoral positions will focus on the development of improved statistical approaches to fMRI data, with two broad themes:

- The development of approaches to autoregressive modeling and nuisance regression that are optimized for rapidly sampled (“multiband” or simultaneous multi-slice (SMS) imaging) data.
- The development of empirical Bayesian methods for combining information from large public datasets with data obtained from single subject or small sample studies.

A Ph.D. or the equivalent in statistics, biostatistics, computer science, neuroscience, or a related field, is required. Prior experience in neuroimaging is desirable.

Mentorship will be provided by Dr. James Pekar, Department of Radiology, and Drs. Brian Caffo & Martin Lindquist, Department of Biostatistics.

Please send CV & names of three references to <pekar@jhu.edu>.

Kennedy Krieger Institute is an Equal Opportunity Employer, M/F/D/V.