Postdoctoral Research Fellow, Children's National Medical Center, Washington, DC

Position: Postdoctoral Fellow
Organization: Children's National Medical Center
Location: Washington, DC

Description:

The Advanced Pediatric Brain Imaging Research Center in Diagnostic Imaging & Radiology has an opening for a postdoctoral fellowship. The goal of our research is to identify and precisely characterize the earliest signs of abnormal fetal brain development and develop reliable MRI biomarkers of risk that will lead to the development of effective interventions that minimize long-term adverse neurological consequences. The position is an exciting opportunity to be at the forefront of this rapidly developing new field.

The research project will focus on developing novel mathematical and computational techniques including machine learning algorithms to quantify and model global and local cerebral cortical development (e.g., gyral/sulcal development, cortical surface/thickness) of in vivo second and third trimester brain MR images of healthy and high-risk fetuses and newborns.

Extensive theoretical and practical background in MRI is required. Knowledge in software programming using C/C++, MATLAB, and GPU computing is also required. Candidates must have a PhD in Engineering, Computer Science, Neuroscience and/or Applied Physics/Mathematics. The candidate is expected to have an emerging track record of publishing in academic journals, and capable of working within a collaborative environment. Candidates should list 3 references, and provide a brief statement of research interests and goals.

Contact:

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