We're hiring!
Postdoctoral Researcher

The Developing Brain Institute at Children's National seeks a highly motivated and talented postdoctoral researcher to join our team, where they will advance fetal and neonatal diffusion MRI (dMRI) methods. These methods will include motion correction, longitudinal analyses, and placental IVIM methods. The selected candidate will work with a team of clinicians and basic scientists to enhance the quality and interpretability of prenatal and neonatal imaging, using advanced diffusion methods and AI-based techniques.

Responsibilities

- Develop advanced diffusion processing pipelines geared towards fetal and neonatal imaging.
- Develop motion detection and correction methods for fetal dMRI.
- Apply a new IVIM method to placental imaging.
- Publish findings in high-impact journals and present at international conferences.

Qualifications and skills

- Ph.D. in Biomedical Engineering, Medical Physics, Neuroscience, Computer Science or related field.
- Diffusion MRI processing and analyses.
- MATLAB, Python, or bash for neuroimaging applications.
- Familiarity with tools, such as FSL, MRtrix, ANTs, etc.
- Experience with motion correction techniques and/or deep learning methods is a plus.
- Strong publication record and excellent problem-solving skills.

Contact: Please **email** a cover letter, CV and contact information for two to three referees to nelsaid@childrensnational.org. (Applications reviewed on a rolling basis.)