



**Pei-Yi Lin, Ph.D.**

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Fetal-Neonatal Neuroimaging & Developmental Science Center (FNNDSC)  
Boston Children's Hospital

**Boston Children's Hospital**

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**Position: Postdoctoral Research Fellow**

Description of position:

The NIRS group in Fetal-Neonatal Neuroimaging and Developmental Science Center (FNNDSC) at Boston Children's Hospital (BCH) and Harvard Medical School (HMS) is looking for a motivated postdoctoral research fellow to join our group. The successful candidate should have experience in **signal processing in time-series neuroimaging data and/or human physiology**. Specifically, the candidate will carry out a project that is investigating cerebral hemodynamics, using advanced near-infrared spectroscopy (FDNIRS-DCS) in NICU infants. Additionally, the candidate will be involved in multiple clinical and technical projects developed in the FNNDSC to study brain health in infant and pediatric populations.

Principal duties and responsibilities:

- Analyze time-series NIRS, physiological and clinical data with computational pipelines based on both in-house codes and common toolboxes.
- Create all necessary documentation for code and applications.
- Prepare scientific reports (oral and written) and publications.
- Assist in data collection.

Required qualifications and skills:

- PhD in Biomedical Engineering, Physics, Electrical Engineering, Developmental Science, Exercise Science, Human Physiology or related field.
- Good programming skills and comfort to adapt to diverse computing environments required. (Python, C++, CUDA, Scala, etc.).
- Prior experience with analyzing neuroimaging (NIRS, EEG, MRI etc) and physiological data is preferred but not required.
- Excellent problem solving, task management and communication skills.
- Ability to work both independently and collaboratively to take on a study and produce a publishable unit(s).

**Conditions of Employment:**

- Position is available immediately.
- This is a multi-year position with preference for candidates who can commit to two years.

- This position is eligible for BCH benefits. BCH offers a comprehensive benefits package that includes flexible schedules, medical/vision/dental coverage, child-care and student-loan subsidies, generous paid time off, a 403(b) retirement plan, commuter and other employee discounts.
- Boston Children's Hospital requires influenza vaccination for all employees, unless eligible for a medical or religious exemption.
- BCH values diversity and is committed to equal opportunity in employment. Boston Children's Hospital is an Equal Opportunity/Affirmative Action Employer; all qualified applicants will receive consideration without regard to race, color, religion, national origin, sex, sexual orientation, gender identity, protected veteran status, disability, or other protected status.

**Pay Transparency:**

Exempt Role:

- \$70,000-\$77,267
- The posted pay range is Boston Children's reasonable and good-faith expectation for this pay at the time of posting.
- Pay offer provided depends on skills, experience, education, certifications, and a variety of other job-related factors.

Candidate will work with Pei-Yi (Ivy) Lin, PhD and the NIRS group within FNNDSC. Interested candidates should send a cover letter and a recent CV to Dr. Pei-Yi (Ivy) Lin (email: [Ivy.Lin@childrens.harvard.edu](mailto:Ivy.Lin@childrens.harvard.edu)).