



## Positions of Postdoctoral Fellow/Research Assistant Professor

**Postdoctoral fellow/research assistant professor positions are available  
@ Dr. Yong He's lab (Imaging Connectomics Lab) at Beijing Normal University**

### Research Interest

The main goal of **BNU Imaging Connectomics Lab** (<http://helab.bnu.edu.cn>) is to investigate how the human brain networks *in vivo* are topologically (dis)organized in health and disease. Specifically, we focus on the following directions: 1) develop the network construction, characterization, and validation methods/modeling of the connectomes based on multiple imaging techniques (e.g., structural, functional or diffusion MRI) and graph theory, and further elucidate the underlying microstructural and neurophysiological substrates of macroscopic brain networks; 2) explore typical and atypical development of brain networks and establish connectome-based imaging biomarkers for disease diagnosis and treatment evaluation; and 3) develop graph-based brain network analysis and visualization tools for imaging connectomics.

Dr. Yong He is Changjiang Distinguished Professor of Beijing Normal University, China. He is the Deputy Director of the National Key Laboratory of Cognitive Neuroscience and Learning, the founding Director of the Beijing Key Laboratory of Brain Imaging and Connectomics, and an Principal Investigator of IDG/McGovern Institute for Brain Research, Beijing Normal University.

### Job Description and Requirements

**1. Imaging Connectomics: Brain network analyses approaches using multi-modal neuroimaging data; Computational brain network modeling; and, Connectome big data analysis.**

Requirements:

- A doctorate in computer science, electronic engineering, biomedical engineering, physics, systems science, cognitive neuroscience, mathematics, or other related areas.
- Proficiency in MATLAB or other programming language; experience with neuroimaging, such as structural, functional or diffusion MRI, PET, or EEG/MEG, is preferred.
- Excellent publication record.

**2. Pediatric brain imaging: Brain network development from neonate to childhood; network dysfunction mechanisms and connectome-based biomarkers in developmental disorders (e.g., ADHD, autism).**

Requirements:

- A doctorate in cognitive neuroscience, developmental psychology, pediatric neurology, psychiatry or other related areas.
- Experience with neuroimaging (e.g., structural, functional or diffusion MRI).
- Excellent publication record.

**Salary: 50000 - 70000 USD annually, depending on the experiences of applicants.**

**If interested, please send CV to Dr. Yong He (E-mail: [yong.he@bnu.edu.cn](mailto:yong.he@bnu.edu.cn))**