

Postdoctoral Position for Neuroimaging Research

University of Nebraska-Lincoln (UNL)
Special Education and Communication Disorders (SECD)
Center for Brain, Biology & Behavior (CB3)
Neuroimaging for Language, Literacy and Learning (NL3)

A postdoctoral appointment is available under the supervision of Dr. Yingying Wang in the SECD at the UNL. The goal of this post-doc research is to conduct neuroimaging research in the areas of language, literacy, and learning. Responsibilities include analyzing existing imaging/behavioral data and assist data collection. Possible areas of interest include, but are not limited to, (a) reading development children with hearing loss; (b) brain plasticity; (c) brain connectivity; (d) big data and multimodal imaging techniques (EEG, fNIRS, MEG, fMRI, DWI).

Facilities and Resources

Barkley Speech Language and Hearing Clinic (BSLHC). The BSLHC maintains clinic spaces for working with individuals with speech, language, hearing, and balance impairments. Facilities include two double room audiological testing suites, rooms for consultation and hearing aid fitting, hearing aid repair and maintenance, specialized testing, and the Nebraska Hearing Aid Banks. The NL3 at the BSLHC, directed by Dr. Wang, currently includes three workstations dedicated to neuroimaging data processing. Two senior computer support analysts maintain server storage, clinic observation systems, and security. The CB3 is an interdisciplinary, research-dedicated center that engages a broad spectrum of investigators across disciplines including basic and applied scientists, clinicians, and engineers, and is actively involved in a unique research collaboration with University Athletics. The centerpiece of the 30,000 square foot facility is a Siemens Skyra 3 Tesla scanner equipped with an MR-compatible 256-electrode high-density EEG system and an eye tracker. The center also features specialized laboratories for behavioral genetics, eye tracking, high-density EEG/ERP, NIRS, and psychophysiology, as well as a salivary bioscience core facility. The center's state-of-the-art facilities and interdisciplinary environment enable diverse studies to expand understanding of brain function and its effects on human behavior.

Minimum Required Qualifications

1. Ph.D. in Psychology, Neuroscience, Biomedical Engineering or a related field
2. At least two years of experience conducting fMRI research, including years of education
3. Demonstrated training and expertise specific to fMRI research design, including programming of fMRI stimulus delivery paradigms, as well as training and expertise in fMRI data processing and analysis software (e.g., AFNI, FSL, SPM)
4. Co-authorship of scholarly work involving fMRI
5. Excellent English communication skills and experience contributing to a productive fMRI research group
6. Comfortable with working with young children and collect imaging and behavioral data

Preferred Qualifications

1. Over three years of experience conducting fMRI research, including years of education and postdoctoral experience
2. Demonstrated training and expertise in the integration of fMRI research design and analysis with other complementary methodologies, such as structural MRI/DTI, EEG/ERP, eye tracking, and/or psychophysiology
3. Scripting and programming skills (e.g., R, bash)
4. Evidence of independence in fMRI research, grant writing and publication

Apply

Review of applications will begin Jan, 2018 and continue until the position is filled. To be considered for the position, please send an email to Dr. Wang (yingying.wang@unl.edu) with all the required materials in one PDF. If you have any question, please contact Dr. Wang at yingying.wang@unl.edu. The term of this appointment is for one year, with the possibility of renewal based upon satisfactory performance and funding up to 5 years. Salary is based on experience. The required materials include cover letter, curriculum vitae, and a list of contact information for three references. The University of Nebraska-Lincoln is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers. See <http://www.unl.edu/equity/notice-nondiscrimination>