Guobin Xie 谢国斌

Biolinguistics and Brain Sciences Lab, Department of Linguistics, BLCU

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Education

Beijing Language and Culture University Sep 2022 – Jun 2025
M.A. in Language and Brain Science Beijing,China

- **GPA:** 3.96/4.0
- **Core courses:** Neurolinguistics, Biolinguistics, Methods of Neurolinguisitics, Language and AI, etc.
- **Supervisor:** Dr. Xiaochen Sun

Northwest University(211 project university) Sep 2018 – Jun 2022
B.A. in Linguistics Xi'an,China

- **Average Grade:** 86.82/100 (ranking:1/26)
- **Core courses:** Modern Linguistics, General Linguistics, History of Linguistics, Second Language Acquisition, etc.
- **Supervisor:** Dr. Yanhua Yang

Research Interests

Speech Perception, Neural Oscillation, Neurolinguistics, Prososdy & Emotion, Simultaneous EEG-fNIRS

Research Projects

The Neural Entrainment to Chinese Rhythmic Structure Apr 2024 – Present

- Role: project leader
- Utilize Frequency-Tagging Paradigm to explore 1) the causal relationship between neural oscillation and speech perception, 2) the different representations of predicting and perceiving speech, 3) the potential rhythmic structure tendency of Chinese
- Tools Used: Simultaneous EEG-fNIRS Acquisition, MATLAB & E-Prime
- Supported and funded by Graduate Training Programs for Innovation of Beijing Language and Culture University (NO.24YCX052)

Working Memory Effects on Second Language Processing Apr 2024 – Present

- Role: project member
- Utilize Frequency-Tagging paradigm to probe working memory effects during second language processing
- Tools Used: EEG, Psychopy, MATLAB & R
- Supported and funded by Undergraduate Training Programs for Innovation and Entrepreneurship of Beijing Language and Culture University (NO.X202410032056)

Discourse Analysis of Social Media on Poverty Alleviation & Rural Revitalization Apr 2020 – Sep 2021

- Role: Project leader
- Discourse analysis within corpus based on the social media investigates the potential contribution of language on poverty alleviation and rural revitalization.
- Tools Used: Corpus, SPSS
- Supported and funded by National Undergraduate Training Programs for Innovation and Entrepreneurship (NO. S202010697023).

Lateralization Study of Planum Temporal Brain Connections Between Left and Right Hemispheres Apr 2020 – Dec 2023

- Role: Project member (PI: Dr. Xiaochen Sun)
- Utilize multi-modal MRI data to explore 1) Systematically evaluate the lateralization characteristics and reliability of planum temporal brain connections between left and right hemispheres; 2) Explore the genetic

basis of planum temporal brain connections between left and right hemispheres; 3) Explore the abnormal patterns of planum temporal brain connections between left and right hemispheres in children with dyslexia.

- Tools Used: fMRI, Matlab
- Supported and funded by the Young Scientists Fund of the National Natural Science Foundation of China (NO.81801782).

The Relationship between Left Periphery of Sentence and Hemispheric lateralization of Brain Sep 2019 – Jun 2023

- Role: Project member(PI: Dr. Xiaochen Sun)
- explore the neural mechanism underlies the structures of left periphery and beyond the left periphery, like pragmatics level, from the perspective of hemispheric lateralization of brain.
- Tools Used: fNIRS, Matlab
- Supported and funded by the Doctoral Research Start-up Fund of Beijing Language and Culture University (NO.19YBB39).

Conferences

International Conference of Peking University Health Science on Autism -Language and Brain Development — Oct 2023
The Fifth International Workshop on Syntactic Cartography (IWSC) — Nov 2023
Academic Frontier Forum on the Functional Mechanisms of Perception, Language, Movement and Emotion: from an Interdisciplinary Perspective — Jun 2024
The Seventh Annual Conference of the Psycholinguistics in Committee of the Chinese Psychological Society — Nov 2024

Lab Trainings

Biolinguistics and Brain Sciences Lab, BLCU Sep 2022 – Present
SunLab (Supervisor: Dr. Xiaochen Sun)

- Training on the operation of Eye-tracking, EEG & fNIRS

Jiangsu Provincial Key Laboratory of Language & Cognitive Neuroscience, JSNU July 2021
Supervisor: Dr. Shanshan Zhang

- Award for the "Best Presentation" on the Seventh National Summer Camp for Outstanding College Students
- Training on the operation of Eye-tracking, EEG & fMRI

Scholarships & Awards

Northwest University Undergraduate Scholarship, First & Second Prize — Sep 2018–Jun 2022
National Advertising Art Design Competition for College Students, First Prize — 2020
National English Competition for College Students, Third Prize — 2020
Beijing Language and Culture University Graduate Scholarship, First & Third Prize — Sep 2022–Jun 2024

Skills

Programming & Software: MATLAB, Python, R, E-Prime & SPSS

Equipment techniques: EEG, fNIRS & Eye tracking

Languages

Mandarin: Native Proficiency

Hakka: Native Proficiency

English: Fluent Proficiency (IELTS:7)

Cantonese: Elementary Proficiency

German: Elementary Proficiency