

Center of Experimental Linguistics, School of Arts and Science, National University of Mongolia

The aim of this center, established in 2021, is to advance research by utilizing the latest scientific breakthroughs, technologies, and methodologies. It focuses on conducting experimental research in order to generate new knowledge, methodologies, and innovative solutions, while also addressing societal challenges by leveraging insights from humanities, including linguistic research. The initiative includes using various experimental methods such as linguistics, experimental phonology, psychology, identity psychology, and interdisciplinary research in areas like psycholinguistics, cognitive linguistics, neurolinguistics, and applied linguistics. By integrating brain research, this approach represents a significant advancement in linguistic research in Mongolia and reflects a commitment to addressing specific challenges in socio-economic and national development. The center's purpose includes conducting collaborative projects and research initiatives both domestically and internationally, fostering interdisciplinary research, improving graduate study programs and researches, publishing research outcomes, and applying research findings in native language and foreign language education, health, cognition, and human development.

Structure of the Center:

- Audio-video studio room
- Section of experimental phonetics
- Section of experimental cognitive research

Device and Equipment:

- Ultra sound scanner
- Eyetracker Tobii Pro
- WinPitch software
- Server
- Microphones(Shure, Rode, audio-technica)
- Soundcard (Scarlette)
- Mixer (Yamaha)
- PC(x2)
- Some research software

The research areas of focus at our center include:

Experimental Study of Language and Speech:

1. Examining the narrative and audiological characteristics of the Mongolian language based on its physical sound nature through experimental methods and comparing it with foreign languages.
2. Studying language, including phonetics, within the framework of neurolinguistics.

3. Development of methods for diagnosing and treating speech-related defects using specialized equipment.
4. Creation of various language corpora such as political, media, and literary corpora (exploring discourse, popular vocabulary, linguistics, syntax, and language typology).

Neuro and Psycholinguistic Research:

1. Conducting brain recordings using language processing software and EEG to identify the functional centers of the Mongolian brain.
2. Studying linguistic centers such as parts of speech understanding and speech production within the brain.
3. Exploring mother tongue and foreign language acquisition from the perspective of neuro and psycholinguistics.
4. Undertaking psycholinguistic research.

Moreover, our center has engaged in experimental phonological studies on a range of languages including French, Korean, Chinese, German, Russian, Mongolian, Turkish, and Spanish. Additionally, research has been conducted in linguistics (1 study), art studies (1 study), psychology (2 studies), and neuromarketing (2 studies).

International cooperation:

To broaden our collaborative efforts, we have established cooperation agreements with prominent institutions, including the Children's Speech Therapy Center, AUF Career Development Center, and the Phonetics and Phonology Laboratory of the University Nouvelle Sorbonne-Paris 3 in France. As part of this collaboration, in December 2023 we facilitated an internship opportunity for two students in Paris, France. This immersive experience aimed to acquaint them with the operational intricacies and ongoing projects within the laboratory. The initiative not only strengthened our international ties but also provided valuable exposure for our students to the diverse methodologies and research activities undertaken by our partners in France.

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