Dongyang Yan

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RESEARCH EXPERIENCE

Assistant Professor by appointment 2025 - Now
Graduate School of Information Science and Technology, The University of Tokyo

Research Assistant 2021-2022, 2023-2024
Department of Education, Hokkaido University

Worked on fMRI projects focusing on healthy human participants during various cognitive task, overseeing end-to-end processes from fMRI data collection to robust data analysis using SPM (Statistical Parametric Mapping) software.

Conducted neuropsychological assessments and psychotherapeutic interventions for children with learning difficulties or developmental disorders. Contributed to independent and collaborative research in the areas of reading development and reading disorders through computerized cognitive testing, and performance validity assessment.

Organized and led large-scale assessments across multiple elementary schools. Employed sophisticated data analysis techniques to extract meaningful insights from complex datasets, facilitating a comprehensive understanding of the cognitive profiles of children with learning difficulties.

TEACHING EXPERIENCE

Department of Education, Hokkaido University Apr. 2020- Apr. 2021
Learning difficulty theory

EDUCATION

Department of Education, Hokkaido University Sapporo, Japan
Ph.D., in Neuropsychology of Learning Apr. 2020 - Mar. 2025

Research and Education Center for Brain Science, Hokkaido University Sapporo, Japan
Graduate Program of Brain Science Apr. 2020 - Mar. 2025

Department of Education, University of York York, United Kingdom
M.A., in Teaching English to Speakers of Other Languages Sept. 2014 - Jan. 2016

Department of Foreign Languages, Zhengzhou University Zhengzhou, China
B.A., in English Translation Sept. 2010 - Jul. 2014

RESEARCH INTERST

Neurolinguistics
Cognitive Neuroscience
Neurobiology
Neuronal Oscillation
Second language acquisition
Reading
Multisensory integration
M/EEG, fMRI

PEER REVIEWED PUBLICATIONS

Yan, D., & Seki, A. (2024). Differential modulations of theta and beta oscillations by audiovisual congruency in letter-speech sound integration. European Journal of Neuroscience, 60(11), 6720–6733.

Yan, D., Seki, A. (2024). The Role of Letter-Speech Sound Integration in Native and Second Language Reading: A Study in Native Japanese Readers Learning English. Journal of Cognitive Neuroscience, 36(6): 1123–1140.

Yan, D. (2022). A systematic review of letter-speech sound integration: two analysis models and reading acquisition. Bulletin of Faculty of Education, Hokkaido University, 140, 1-24.

Temporal Asynchrony Affects Letter-Speech Sound Integration in Second Language Reading (Under review).

Rethinking Cognitive Load Effects on Multisensory Integration: Insights to Electrophysiological Activity (In preparation).

INTERNATIONAL CONFERENCE PRESENTATIONS

Yan, D., Seki, A. (2024). Differential Modulation of Theta and Beta Oscillations by Audiovisual Congruency in Letter-Speech Sound Integration. The 8th Annual Conference for the Association for Reading and Writing in Asia. Jeju, Korea.

Yan, D., Seki, A. (2023). The Role of Letter-Speech Sound Integration in Native and Second Languages: An ERP Study. The 7th Annual Conference for the Association for Reading and Writing in Asia. (Virtually, due to the COVID-19 pandemic).

SCHOLARSHIP & AWARDS

Hokkaido University DX Doctoral Fellowship 2021-2023
Japan Dyslexia Research Association Conference, Best Presentation Award, 2023
Fumiko Hoeft Award, 2023
ARWA Student Scholarship, 2024

SKILLS

Language Skills: Chinese(Mandarin): Native; English: Advanced; Japanese: Advanced
Programming language: Matlab, Python
Software: EEGLab, Fieldtrip, SPM, Freesurfer, E-prime, Presentation, Psychtoolbox, R, Stata, Adobe Illustrator

ACADEMIA SERVICE

2024 Reviewer, European Journal of Neuroscience
2023 Reviewer, Language Teaching Research

SUMMARY OF RESEARCH

My research interests include using M/EEG or multi-modal imaging techniques to understand the neurobiological substrate of multisensory perception and cross-modal interaction.