Dongyang Yan

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EDUCATION

Department of Education, Hokkaido University — Sapporo, Japan
Ph.D., in Neuropsychology of Learning — Apr. 2020 - Now (expected, Sep. 2024)

Research and Education Center for Brain Science, Hokkaido University — Sapporo, Japan
Graduate Program of Brain Science — Apr. 2020 - Now (expected, Sep. 2024)

Dissertation: ""

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

Thesis: "The effects of L1 and L2 glosses in modified texts on incidental second language vocabulary acquisition"

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

SUMMARY OF RESEARCH

My research focused on investigating the brain activation associated with reading, particularly the impact of language proficiency on brain network changes. Throughout my doctoral studies, I have specifically explored the audiovisual integration processes in both native and second language learning contexts. Specifically, I have approached letter-speech sound integration phenomena by employing not only traditional psycholinguistic task along with behavioral measures, including priming and artificial language learning experiments, but also event-related responses and neural oscillations. Further research interests include using multi-modal imaging techniques to understand the neurobiological substrate underlying language functions, with a particular focus on second language processing.

RESEARCH INTERST

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

PEER REVIEWED PUBLICATIONS

In preparation

Letter-Speech Sound Congruency Differentially Modulates Theta and Beta-Band Powers and Coherences: An EEG Study

Temporal Asynchrony affects Letter-Speech Sound Integration in Second Language Reading: a study of Event-Related Potentials and Inter-trial Phase Coherence

In revision

The Role of Letter-Speech Sound Integration in Non-Alphabetic Native and Alphabetic Second Language Reading: A Study in Native Japanese Readers

Yan, D. (2022). A systematic review of Letter-speech sound integration: two analysis models and reading acquisition (自動的文字-音統合の処理についての検討: 二つの分析方法と読み習得における役割). Bulletin of Faculty of Education, Hokkaido University, 140, 1-24. https://doi.org/10.14943/b.edu.140.1 (In Japanese)

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.

RESEARCH EXPERIENCE

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

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

Dept. of Education, Hokkaido University Apr. 2020- Apr. 2021
Teaching Assistant
Learning difficulty theory

SCHOLARSHIP & AWARDS

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

SKILLS

Language Skills: Chinese: Native; ENGLISH: Advanced; Japanese: Advanced
Programming & software: Matlab, Python, R, Stata, Adobe Illustrator, E-prime