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Education

New York University — **New York, U.S**
Ph.D., Cognitive Neuroscience — *2019–2024*
Thesis: Investigation of Motor-based Predictive Signals in Speech Production.
Supervisor: Xing Tian

New York University / Shanghai — **New York, U.S**
B.Sc., Neural Science — *2013–2017*
Capstone: Mental Imagery in Human Speech Production and Perception

Professional Appointment and Research Experience

Postdoctoral Fellow — **Hong Kong SAR, China**
Brain and Mind Institute — *2024–onwards*
Department of Linguistics and Modern Languages, The Chinese University of Hong Kong
Advisors: Patrick C. M. Wong, Xiangbin Teng

Ph.D. Candidate — **Shanghai, China**
Tian Lab — *2020–2024*
New York University Shanghai

Ph.D. Student — **New York, U.S**
Flinker Lab, Poeppel Lab — *2019–2020*
NYU Langone Health, New York University

Research Associate — **Shanghai, China**
NYU-ECNU Institute of Brain and Cognitive Science at NYU Shanghai — *2017–2019*
New York University Shanghai

Publications and Presentations

2024: Yang, F., **Zhu, H.***, Cao, X., Li, H., Fang, X., Yu, L., Li, S., Wu, Z., Li, C., Zhang, C., & Tian, X. *Impaired motor-to-sensory transformation mediates auditory hallucinations.* PLoS Biology.

2024: Yu, X., Li, J., **Zhu, H.**, Tian, X., & Lau, E. *Electrophysiological hallmarks for event relations and event roles in working memory*. Frontiers in Neuroscience.

2023: Han, Z., **Zhu, H.**, Shen, Y., & Tian, X. *Segregation and integration of sensory features by flexible temporal characteristics of independent neural representations*. Cerebral Cortex.

2022: Zheng, X., **Zhu, H.**, Li, S., & Tian, X. *The Generic Inhibitory Function of Corollary Discharge in Motor Intention: Evidence from the Modulation Effects of Speech Preparation on the Late Components*

of Auditory Neural Responses. eneuro.

2021: Yang, F., **Zhu, H.**, Yu, L., Lu, W., Zhang, C., & Tian, X. *Deficits in multi-scale top-down processes distorting auditory perception in schizophrenia*. Behavioural Brain Research.

2020: Li, S., **Zhu, H.***, & Tian, X. *Corollary Discharge Versus Efference Copy: Distinct Neural Signals in Speech Preparation Differentially Modulate Auditory Responses*. Cerebral Cortex.

2019: Presented *Corollary Discharge Versus Efference Copy: Distinct Neural Signals in Speech Preparation Differentially Modulate Auditory Responses* at the 49th Annual Meeting of Society of Neuroscience, Chicago, U.S.

2018: Yang, J., **Zhu, H.***, & Tian, X. *Group-Level Multivariate Analysis in EasyEEG Toolbox: Examining the Temporal Dynamics Using Topographic Responses*. Frontiers in Neuroscience.

Teaching Experience

2021: Teaching assistant, Laboratory: EEG system, East China Normal University (Spring 2021)

Skills

Technical: Python, MATLAB; MEG/EEG/iEEG data analysis; PCB design, 3D printing; Modeling

Languages: English (Fluent), Mandarin Chinese (native)

Awards and Honors

2020: Dean's Conference Fund, GSAS, New York University

2019: MacCracken Doctoral Fellowships, GSAS, New York University

2019: NYU Shanghai Doctoral Fellowships, New York University Shanghai

References

Patrick C. M. Wong, Ph.D. **Stanley Ho Professor of Cognitive Neuroscience**
The Chinese University of Hong Kong
Department of Linguistics and Modern Languages
Hong Kong SAR, China

Xing Tian, Ph.D. **Associate Professor of Neural and Cognitive Sciences**
New York University Shanghai
Department of Neural and Cognitive Sciences
Shanghai, China

Xiangbin Teng, Ph.D. **Assistant Professor of Psychology**
The Chinese University of Hong Kong
Department of Psychology
Hong Kong SAR, China