

Hao Zhu, Ph.D.

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Education

New York University <i>Ph.D., Cognitive Neuroscience</i> Thesis: Investigation of Motor-based Predictive Signals in Speech Production. Supervisor: Xing Tian	New York, U.S 2019–2024
New York University / Shanghai <i>B.Sc., Neural Science</i> Capstone: Mental Imagery in Human Speech Production and Perception	New York, U.S 2013–2017

Professional Appointment and Research Experience

Postdoctoral Fellow <i>Brain and Mind Institute</i> Department of Linguistics and Modern Languages, The Chinese University of Hong Kong Advisors: Patrick C. M. Wong, Xiangbin Teng	Hong Kong SAR, China 2024–onwards
Ph.D. Candidate <i>Tian Lab</i> New York University Shanghai	Shanghai, China 2020–2024
Ph.D. Student <i>Flinker Lab, Poeppel Lab</i> NYU Langone Health, New York University	New York, U.S 2019–2020
Research Associate <i>NYU-ECNU Institute of Brain and Cognitive Science at NYU Shanghai</i> New York University Shanghai	Shanghai, China 2017–2019

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: Present *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

2025: Post-Doctoral Fellow Award, CNS 2026

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