

# Hao Zhu, Ph.D.

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## Education

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

## Professional Appointment and Research Experience

<b>Postdoctoral Fellow</b> <i>Brain and Mind Institute</i> Department of Linguistics and Modern Languages, Chinese University of Hong Kong Advisors: Patrick C. M. Wong, Xiangbin Teng	<b>Hong Kong SAR, China</b> 2024–onwards
<b>iEEG Research Principal</b> <i>Epilepsy Center</i> Shenzhen Second People's Hospital, Guangzhou 999 Brain Hospital	<b>Shenzhen, Guangzhou, China</b> 2022–2024
<b>Ph.D. Candidate</b> <i>Tian Lab</i> New York University Shanghai	<b>Shanghai, China</b> 2020–2022
<b>Ph.D. Student</b> <i>Flinker Lab, Poeppel Lab</i> NYU Langone Health, New York University	<b>New York, U.S</b> 2019–2020
<b>Research Associate</b> <i>NYU-ECNU Institute of Brain and Cognitive Science at NYU Shanghai</i> New York University Shanghai	<b>Shanghai, China</b> 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:** 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

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

## Skills

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**Technical:** Python, MATLAB; MEG/EEG/iEEG data analysis, PCB design, 3D printing, and machine learning

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

## Awards and Honors

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**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

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**Patrick C. M. Wong, Ph.D.**

**Stanley Ho Professor of Cognitive Neuroscience**

*Chinese University of Hong Kong*

Department of Linguistics and Modern Languages

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**Xing Tian, Ph.D.**

**Associate Professor of Neural and Cognitive Sciences**

*New York University Shanghai*

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200124 Shanghai, China

**Xiangbin Teng, Ph.D.**

**Assistant Professor of Psychology**

*Chinese University of Hong Kong*

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