

Jinyu Wang

Third-year PhD Candidate
Interdisciplinary Design and Media Program
Institute for Cognitive and Brain Health
Tel: (781) 960-3562
Google Scholar: [8EWXWAMAAAAJ](#)
Email: wang.jinyu2@northeastern.edu

Education

2023 – 2028 (Expected)

Ph.D. (Interdisciplinary Design & Media), College of Art, Media and Design, Center for Cognitive and Brain Health, Northeastern University, Boston, US. Advisor: [Dr. Psyche Loui](#); Co-advisor: [Dr. Stephanie Noble](#)

2019 – 2022

M.Ed. (Psychology), Medical Psychological Center, The Second Xiangya Hospital, Central South University (GPA: **3.89/4**, **91.54/100**), Changsha, China. Advisor: [Dr. Daxing Wu](#)

2015 – 2019

B.S. (Psychology), Department of Psychology, Hunan Normal University (GPA: **3.51/4**, **84.45/100**, Rank: **9 out of 63**), Changsha, China. Advisor: [Dr. Yanhui Xiang](#)

Publications

Published/Accepted Articles

- Wang, J.**, Kathios, N., Ou, Y., Curtiss, J., Wu, D., & Loui, P. (2026). A Cross-Cultural Comparison of Individual Differences in Musical Reward. *Music Perception: An Interdisciplinary Journal*, 1-20. <https://doi.org/10.1525/mp.2026.2459501>
- Han, K. Y., **Wang, J.**, Kubit, B. M., Parrish, C., & Loui, P. (2025). Functional Connectivity of Auditory, Motor, and Reward Networks at Rest and During Music Listening. *Brain Sciences*, 16(1), 15. <https://doi.org/10.3390/brainsci16010015>
- Loui, P., & **Wang, J.** (2025). Music, Emotion, and Reward. In J. Armony & P. Vuilleumier (Eds.), *The Cambridge Handbook of Human Affective Neuroscience* (2 ed., pp. 288-305). Cambridge University Press. <https://doi.org/10.1017/9781009342919.018>
- Wang, J.**, Xu, M., Jin, Z., Xia, L., Lian, Q., Huyang, S., & Wu, D. (2021). The Chinese version of the Barcelona Music Reward Questionnaire (BMRQ): Associations with personality traits and gender. *Musicae Scientiae*, 27(1), 218-232. <https://doi.org/10.1177/10298649211034547>
- Jiang, X., & **Wang, J.*** (Corresponding author) (2020). The causal relationship between envy and depression: A cross-lagged regression analysis. *Social Behavior and Personality*, 48(12),

1-9. <https://doi.org/10.2224/sbp.9444>

- Xu, M., **Wang, J.**, Jin, Z., Xia, L., Lian, Q., Huyang, S., & Wu, D. (2021). The Behavioral Inhibition System/Behavioral Activation System Scales: Measurement invariance across gender in Chinese university students. *Frontiers in Psychology*, 12(5760).
<https://doi.org/10.3389/fpsyg.2021.681753>
- Xia, L., Su, C., **Wang, J.**, Xie, L., Sun, K., & Wu, D. (2025). Abnormal EEG activity in major depressive disorder during musical reward experience. *Psychiatry Research: Neuroimaging*, 112083. <https://doi.org/10.1016/j.psychresns.2025.112083>
- Peng, C., Wang, K., **Wang, J.**, Wassing, R., Eickhoff, S. B., Tahmasian, M., & Chen, J. (2025). Neural correlates of insomnia with depression and anxiety from a neuroimaging perspective: A systematic review. *Sleep Medicine Reviews*, 81, 102093.
<https://doi.org/10.1016/j.smr.2025.102093>
- Quan, Y., Lo, C. Y., Wolff, L., **Wang, J.**, Olsen, K. N., & Thompson, W. F. (2025). Cognitive benefits of music in aerobic exercise: Evidence from a Bayesian network meta-analysis in adults with mild cognitive impairment. *Archives of Gerontology and Geriatrics*, 134, 105848. <https://doi.org/10.1016/j.archger.2025.105848>
- Jin, Z., Huyang, S., Li, Q., Jiang, L., Yan, Y., Xu, M., **Wang, J.**, ... & Wu, D. (2025). Altered music emotion experiences of congenital amusia: from the perspective of reward. *BMC psychology*, 13(1), 1316. <https://doi.org/10.1186/s40359-025-03664-2>
- Jin, Z., Lu, X., Huyang, S., Yan, Y., Jiang, L., **Wang, J.**, Xu, M., Li, Q., & Wu, D. (2021). Impaired face recognition is associated with abnormal gray matter volume in the posterior cingulate cortex in congenital amusia. *Neuropsychologia*, 156, 107833.
<https://doi.org/10.1016/j.neuropsychologia.2021.107833>
- Jin, Z., Huyang, S., Jiang, L., Yan, Y., Xu, M., **Wang, J.**, Li, Q., & Wu, D. (2021). Increased resting-state interhemispheric functional connectivity of posterior superior temporal gyrus and posterior cingulate cortex in congenital amusia. *Frontiers in Neuroscience*, 15(490).
<https://doi.org/10.3389/fnins.2021.653325>

In preparation

Wang, J., Kathios, N., Kubit, B., Lopez, K., Kim, J., Large, E., Noble, S., Loui, P. (*In Preparation*)
Hippocampal Cingulum White-Matter Integrity Mediates Musical Reward Sensitivity Changes in Aging.

Presentations

Cognitive Neuroscience Society (CNS) 2026 Annual Meeting 03/2026
Poster: From Empirical to Simulated Brains: Using Digital Twin Models to Identify Therapeutic Targets in MCI

Boston Precision Brain & Mental Health Hack 2025 10/2025
Open Hack Presentation: From Empirical to Simulated Brains: Using Digital Twin Models to Identify Therapeutic Targets in MCI

18th International Conference on Music Perception and Cognition 07/2025
Talk: White matter predictors for musical and general reward in mild cognitive impairment

Cognitive Neuroscience Society (CNS) 2025 Annual Meeting 03/2025

Poster: Brain Structural Predictors of Musical Reward Sensitivity in Older and Young Adults

BrainHack 2024 12/2024

Lightening talk: Age-dependent Predictors of Musical Reward Sensitivity in Brain Structures

Society for Music Perception and Cognition 2024 Conference 07/2024

Talk: A cross-cultural comparison of individual differences in musical reward

CAMD PhD Symposium 2024 03/2024

Talk: Music and Brain Health; Poster: A Cross-Cultural Study of Musical Reward

RISE 2024 03/2024

Poster: Getting in the Groove: High Groove Music's Effect on Working Memory

Awards and Scholarships

2024	Student Research Award, Society for Music Perception and Cognition
2021	Outstanding Student Award from Central South University First-class Postgraduate Academic Scholarship from Central South University
2019	Freshman Academic Scholarship from Central South University Outstanding Graduates from Hunan Normal University
2018	National Encouragement Scholarship from Hunan Normal University
2017	National Encouragement Scholarship from Hunan Normal University The Second Prize of Innovative Social Investigation Competition of Hunan Normal University

Programming & Experiment Skills

Programming Language: R, MATLAB, Python, Shell

Software & Toolboxes: Freesurfer, FSL, MRtrix, CONN, EEGLAB, Brainstorm, Psychtoolbox, PsychoPy, E-prime, AMOS, Mplus, G*Power, SPSS, FACTOR

Experimental Experiences: MRI, EEG, Eye tracking, Behavioral experiments, Survey

Statistical Methods: Machine Learning, Network analysis, Linear mixed model, Structural equation modeling, Cross-lagged analysis

Working Experience

2025 - Current	Teaching Assistant, Undergraduate Course: Music in Everyday Life. Instructor: Dr. James Gutierrez
2023 - 2025	Research Assistant, Music, Imaging, and Neural Dynamics Lab, Department of Music, Northeastern University, Boston, US, Advisor: Dr. Psyche Loui
2022 - 2023	Research Assistant, AI-Psy Lab, Department of Psychology and Behavioral Sciences, Zhejiang University, Hangzhou, China, Advisor: Dr. Ji Chen

2020	Intern, Psychology Department, the Second Xiangya Hospital, Central South University, Changsha, China
2018	Intern, Psychology Internet Community Promotion, Hunan Kuka Information Technology Co., Ltd., Changsha, China
2018	Intern school counselor, Zhiyuan High School, Yueyang, China
2017	Intern, Psychiatry Department, Changsha Psychiatric Hospital, China

Certificates (selected)

2021	Certificate of Psychological Assessment, China Association for Mental Health
2017	Certificate of Psychological Counseling Level 3, China National Occupational Skill Testing Authority