

Chengcheng Wang

PhD Student in Linguistics

City University of Hong Kong

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RESEARCH INTERESTS

Computational neurolinguistics; language processing in the human brain and large language models; aphasia simulations; multimodal representations and naturalistic neuroimaging.

EDUCATION & TRAINING

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|-------------------|--|
| Sep 2023–present | PhD in Linguistics
City University of Hong Kong
Supervisor: Ashley Lewis |
| Sep 2022–Oct 2023 | M.A. in Language Studies
City University of Hong Kong
Thesis (with distinction): <i>Modeling syntactic structures during naturalistic reading in fMRI</i> . |
| Jul 2023 | Computational Neuroscience Summer School
Neuromatch Academy |
| Sep 2017–Jul 2021 | B.A. in Japanese
Huazhong University of Science and Technology, Wuhan, China |

PUBLICATIONS

Non-literal meaning representation in the brain during naturalistic listening

Ma, Z., Huang, Y., **Wang, C.**, & Li, J. (2026).

Conference paper; Accepted. Society for Computation in Linguistics (SCIL 2026). Accepted April 29, 2026.

MRI Datasets for Language Processing

Li, J., Ma, Z., & **Wang, C.** (2025).

Book chapter. International Encyclopedia of Language and Linguistics, 3rd edition. Elsevier. Published December 30, 2025.

Naturalistic fMRI and MEG recordings during viewing of a reality TV show

Li, J., Wang, Q., Wang, Y., **Wang, C.**, Ma, Z., Xu, R., Feng, S., Jiang, X., & Meng, Z. (2025).

Journal article. Scientific Data, 12, 1809. doi:10.1038/s41597-025-06110-5

Le Petit Prince Hong Kong (LPPHK): Naturalistic fMRI and EEG data from older Cantonese speakers

Momenian, M., Ma, Z., Wu, S., **Wang, C.**, Brennan, J., Hale, J., Meyer, L., & Li, J. (2024).

Journal article. Scientific Data, 11, 992. doi:10.1038/s41597-024-03745-8

Emergent modularity in large language models: Insights from aphasia simulations

Wang, C., Fan, Z., Han, Z., Bi, Y., & Li, J. (2025).

Preprint. bioRxiv.

CONFERENCE PRESENTATIONS

Neural Encoding and Reinstatement of Multimodal Information during Naturalistic Viewing

Wang, C., & Li, J. (2026).

Poster; Cognitive Computational Neuroscience

August 3–6, 2026; New York University, New York, USA

Model-brain alignment of video, audio, and text representations in fMRI and MEG

Wang, C., Ma, Z., Wang, Y., & Li, J. (2026).

Poster; Greater Bay PERL Third Meeting

June 5, 2026; The Hong Kong Polytechnic University, Hong Kong

Shared and domain-specific neural dynamics of narrative comprehension and mathematical reasoning

Wang, Y., Ma, Z., **Wang, C.**, & Li, J. (2026).

Poster; Greater Bay PERL Third Meeting

June 5, 2026; The Hong Kong Polytechnic University, Hong Kong

Non-literal Meaning Representation in the Brain during Naturalistic Listening

Ma, Z., Huang, Y., **Wang, C.**, & Li, J. (2026).

Poster; Greater Bay PERL Third Meeting

June 5, 2026; The Hong Kong Polytechnic University, Hong Kong

Simulating aphasic behavior with multimodal large language models

Wang, C., & Li, J. (2025).

Poster; Society for Neuroscience

November 15–19, 2025; San Diego, USA

Model-brain alignment of video, audio, and text representations in fMRI and MEG

Wang, C., Ma, Z., Wang, Y., & Li, J. (2025).

Poster; 19th Annual Meeting of Chinese Neuroscience Society

September 25–28, 2025; Xi'an, China

Neural correlates of narrative comprehension and mathematical problem solving

Wang, Y., Ma, Z., **Wang, C.**, & Li, J. (2025).

Poster; 19th Annual Meeting of Chinese Neuroscience Society

September 25–28, 2025; Xi'an, China

Finding Modularity in Large Language Models: Insights from Aphasia Simulations

Wang, C., & Li, J. (2025).

Poster; Cognitive Computational Neuroscience

August 12–15, 2025; University of Amsterdam, Amsterdam, Netherlands

Naturalistic fMRI and MEG recordings during viewing of a reality TV show

Wang, C., Ma, Z., Wang, Y., & Li, J. (2025).

Poster; International Workshop on Cross-linguistic Databases and Norms

May 31–June 1, 2025; East China Normal University, Shanghai, China

Functional specificity in multimodal large language models and the human brain

Wang, C., Fan, Z., Han, Z., Bi, Y., & Li, J. (2024).

Poster; Society for the Neurobiology of Language

October 24–26, 2024; Brisbane, Australia; Trainee Scholarship Award

Syntactic information drives language models' alignment with human comprehension processes

Ma, Z., **Wang, C.**, & Li, J. (2023).

Oral presentation; Architectures and Mechanisms for Language Processing

December 1–3, 2023; Hong Kong

HONORS & AWARDS

2025–2026	Outstanding Academic Performance Award City University of Hong Kong
2024	Trainee Scholarship Award Society for the Neurobiology of Language
2023–present	PhD Studentship City University of Hong Kong
2021	Outstanding Student Leadership Scholarship Huazhong University of Science and Technology
2020	Kiyoto Hariu Award Huazhong University of Science and Technology
2018	Japanese Voice Acting Contest – Third Place Huazhong University of Science and Technology
2018	Arts and Sports Scholarship Huazhong University of Science and Technology
2018	Japanese Speech Contest – First Place Huazhong University of Science and Technology
2017	Japanese Kana Calligraphy Contest – Second Place Huazhong University of Science and Technology

TEACHING, EXCHANGE & LEADERSHIP

Sep 2026–Aug 2027	Member, Board of Graduate Studies (BGS) City University of Hong Kong; nominated by the College Appointment: 1 September 2026–31 August 2027.
Sep 2026–Aug 2027	Student Member, College Graduate Studies Committee College of Liberal Arts and Social Sciences, City University of Hong Kong Appointment: 1 September 2026–31 August 2027.
Mar–Apr 2019	Teaching Assistant & Exchange Student Muroran Institute of Technology, Japan
2020	Class President Department of Japanese, Huazhong University of Science and Technology
2019	President Blue Sky Student Drama Society, Huazhong University of Science and Technology
2018	Group Leader Students' Association Union, Huazhong University of Science and Technology

SKILLS & LANGUAGES

Programming	Python, R, MATLAB, LaTeX, HTML, Bash/Shell scripting, Markdown
Machine learning	Scikit-learn, TensorFlow, PyTorch
Language tools	NLTK, Praat, Stanford Parser, Jieba, spaCy
Neuroimaging	fMRI and EEG analysis; Nilearn, MNE
Design	Adobe Illustrator
Languages	Mandarin Chinese (native), English (fluent), Japanese (proficient), Cantonese (beginner)