

Kayla Keyue Chen

Email: keyue.chen.19@ucl.ac.uk | Homepage: keyue-c.github.io

SUMMARY

Fourth-year PhD student with an interest in psycholinguistics and neurolinguistics, particularly in the predictive mechanisms in real-time language comprehension, and the interaction between language processing and (domain-general) cognitive processes (e.g., cognitive control, memory, attention).

EDUCATION

University College London

PhD in Linguistics

Funding: Graduate & Overseas Research Scholarships

Ongoing project: Understanding prediction in sentence comprehension

Supervisor: Dr. Wing-Yee Chow, Dr. Andrea Santi

London, UK

2021 - current

University College London

Master of Research in Speech, Language and Cognition

Award: Dean's List of top performing students, Faculty of Brain Sciences

Project: Cognitive control and garden-path sentence comprehension

Supervisor: Dr. Andrea Santi

London, UK

2019 - 2020

Nankai University

Bachelor of Arts in Chinese Language and Culture (TCSOL)

Funding: China National Scholarship

Project: The role of noun neighbor ratio in noun-verb distinction

Supervisor: Dr. Quansheng Xia

Tianjin, China

2015 - 2019

RESEARCH EXPERIENCE

Research Assistant (PI: Dr. Taomei Guo)

State Key Laboratory of Cognitive Neuroscience and Learning

Assisted with a project investigating the brain networks involved in processing emotional words in two languages among bilingual individuals.

Performed a systematic review and meta-analysis of fMRI studies.

Collected and analysed fMRI data using extended unified Structural Equation Modeling.

Feb-June, 2021

Beijing Normal University, China

SCHOLARSHIPS & AWARDS

Best Student Poster Prize at the 30th AMLaP Conference	2024
Society for Human Sentence Processing Travel Award	2023
Yuen Ren Chao Language Experiment Star, Nankai University	2022
UCL Graduate & Overseas Research Scholarship	2021-2024
Oxford-Kaifeng Graduate Scholarship (declined)	2021-2024
Dean's List of top performing students, Faculty of Brain Sciences, UCL	2020
Nomination Award of the 12th Zhou Enlai Scholarship, Nankai University	2019
First Prize, May Fourth Essay Competition, Nankai University	2018
China National Scholarship, Nankai University	2016-2019

PEER-REVIEWED JOURNAL PUBLICATIONS

- (in print) **Chen, K. K.**, Johansen, I.M., & Chow, W.-Y. (2024). Revising noun predictions based on English measure phrases: Evidence from visual-world eye-tracking. *Language, Cognition and Neuroscience*, 1–16.
- Kuz, V., Cai, F., **Chen, K.**, Chen, J., Veall, C., Zheng, Y., Xu, Z., Santi, A. (2024). Trial-Level and Contiguous Syntactic Adaptation: A Common Domain General Mechanism at Play?. *Languages*, 9(3), 73.
- Alrashdi, D. H., **Chen, K. K.**, Meyer, C., & Gould, R. L. (2023). A systematic review and meta-analysis of online mindfulness-based interventions for university students: An examination of psychological distress and well-being, and attrition rates. *Journal of Technology in Behavioral Science*, 9, 211–223.
- Dang, Q., Ma, F., Yuan, Q., Fu, Y., **Chen, K.**, Zhang, Z., Lu, C., & Guo, T. (2023). Processing negative emotion in two languages of bilinguals: Accommodation and assimilation of the neural pathways based on a meta-analysis. *Cerebral Cortex*, 33(13), 8352–8367.
- Chen, K.** & Xia, Q. (2020). Effects of noun neighbor ratio on grammatical class recognition of disyllabic compound nouns in Chinese. *Experimental Linguistics*, 9(02), 16–34.

PEER-REVIEWED CONFERENCE PRESENTATIONS

Talks

- Chen, K. K.**, Xia, F., Wang, S., & Chow, W.-Y. (2024, September 5-7). Comprehenders use consecutive cues to update prediction incrementally: Evidence from eye-tracking and ERPs. Talk at the 30th Architectures and Mechanisms for Language Processing Conference, Edinburgh, Scotland.
- Chen, K. K.**, & Chow, W.-Y. (2023, December 1-3). Rapid semantic updating despite prediction errors: eye-tracking evidence from Mandarin Chinese. Talk at the 2nd Architectures and Mechanisms for Language Processing Asia Conference, Hong Kong, China.

Poster Presentations

- Chen, K. K.**, Lu, C., Wang, X., Wu, Y., & Chow, W.-Y. (2024, September 5-7). Resolving different types of prediction violations during sentence comprehension: Insights from pupillometry and individual differences. Poster presented at the 30th Architectures and Mechanisms for Language Processing Conference, Edinburgh, Scotland.
- Chen, K. K.***, Huo, Y.*, Xu, J., Wang, Z., Xia, F., & Chow, W.-Y. (2024, September 5-7). Co-registration of mouse cursor and eye movements reveals comparable sensitivity of mouse and eye-tracking to prediction during language comprehension. Poster presented at the 30th Architectures and Mechanisms for Language Processing Conference, Edinburgh, Scotland. **equal contribution*
- Chen, K. K.**, Xia, F., Wang, S., & Chow, W.-Y. (2024, May 16-18). Incremental prediction updating through consecutive cues: Evidence from ERPs. Poster presented at the 37th Annual Conference on Human Sentence Processing, Ann Arbor, MI.
- Chen, K. K.***, Huo, Y.*, Xu, J., Wang, Z., Xia, F., & Chow, W.-Y. (2024, May 16-18). Co-registration of mouse cursor and eye movements reveals comparable sensitivity of mouse and eye-tracking to prediction during language comprehension. Poster presented at the 37th Annual Conference on Human Sentence Processing, Ann Arbor, MI. **equal contribution*
- Zhang, Y., Wang, Y., Frassinelli, D., Antúnez, M., Lim, D., Aneez, M, **Chen, K.**, & Vigliocco, G. (2023, September 6-9). Multimodal information contribution to language comprehension in naturalistic settings: EEG evidence. Poster presented at the 23rd meeting of the European Society for Cognitive Psychology, Porto, Portugal.
- Chen, K. K.**, & Chow, W.-Y. (2023, March 9-11). Updating predictions incrementally: Listeners are able to process new information following prediction errors. Poster presented at the 36th Annual Conference on Human Sentence Processing, Pittsburgh, PA.
- Chen, K. K.**, Johansen, I.M., & Chow, W.-Y. (2022, September 7-9). Unexpected information triggers rapid prediction updating: Evidence from eye movements. Poster presented at the 28th Architectures and Mechanisms for Language Processing Conference, York, UK.
- Chen, K. K.**, Johansen, I.M., & Chow, W.-Y. (2022, March 24-26). Listeners rapidly update their predictions in response to unexpected information. Poster presented at the 35th Annual Conference on Human Sentence Processing, Santa Cruz, CA.
- Kuz, V., **Chen, K.**, Veall, C., & Santi, A. (2021, March 4-6). Cognitive control and ambiguity resolution: Beyond conflict resolution. Poster presented at the 34th Annual CUNY Conference on Human Sentence Processing, Philadelphia, PA.

INTERNAL PRESENTATIONS

- Chen, K. K.**, Xia, F., Wang, S., & Chow, W.-Y. (2024, June 19). Incremental prediction updating through consecutive cues: Evidence from ERPs. Talk at Postgraduate Conference in Linguistics, Oxford, UK.
- Chen, K. K.**, & Chow, W.-Y. (2024, April 23). The interplay of predictability, plausibility, and cognitive functions in sentence comprehension: A pupillometry study. Talk at the 2nd Chandler House Symposium, Division of Psychology and Language Sciences, University College London, UK.
- Chen, K. K.**, & Chow, W.-Y. (2023, June 14). Rapid semantic updating despite prediction errors: Evidence from Mandarin Chinese. Talk at PhD Day, Department of Linguistics, University College London, UK.
- Chen, K. K.**, & Chow, W.-Y. (2023, April 17). Overcoming prediction errors: Rapid updating in language comprehension. Talk at the 1st Chandler House Symposium, Division of Psychology and Language Sciences, University College London, UK.
- Chen, K. K.**, Johansen, I.M., & Chow, W.-Y. (2022, May 27). Unexpected information triggers rapid prediction updating: Evidence from eye movements. Talk at Faculty of Brain Sciences Postgraduate Conference 2022, University College London, UK.

INVITED TALKS

- Chen, K.** (2021, March 7). Predictive mechanisms in language comprehension. Psycholinguistics Salon, College of Chinese Language and Culture, Nankai University, China.

TEACHING EXPERIENCE

Credit-bearing Courses

Language and Communication (BSc) | *Teaching assistant, University College London*

Term 2, 2024

Delivered one lecture.

Marked and provided feedback on final assessments.

Intermediate Statistical Methods (BSc) | *Demonstrator, University College London* Term 1-2, 2021-2023

Conducted weekly practical sessions and drop-in consultations.

Marked and provided feedback on students' homework, coursework, and final exam.

Neurolinguistics (BA, MA) | *Teaching assistant, University College London* Term 2, 2022

Delivered weekly tutorial sessions.

Marked and provided feedback on midterm assessments.

Research Methods: Principles, Skills and Applications (MSc) Term 1-2, 2019

| *Peer tutor, University College London*

Conceptualised and organised weekly group meetings for review and discussion.

Chinese Traditional Idiom (MA) | *Lecturer, Nankai University* Fall, 2018

Designed and delivered weekly lectures.

Marked and provided feedback on student presentations.

Short Courses, Workshops & Guest Lecturer

Introduction to Statistics for Linguists Using R | *University College London* May-June, 2022-2024

Collaborated with a fellow PhD student in leading the summer short course.

Designed and delivered two lectures and tutorials.

Provided drop-in consultations.

Pupillometry in Linguistic Research in Psycholinguistics: The Eye-tracking Method and its Applications in Language Research, UCL Linguistics Autumn School | *University College London* Nov, 2023

Designed and delivered one lecture.

Advising

Masters Dissertation Project

Jingyi Gao (2024), Cassie Liu (2024), Ningxin Hu (2024), Jiajian Xu (2023), Zunni Wang (2023), Fan Xia (2023)

Undergraduate Dissertation Project

Qizhang Shi (2024), Yuxuan Wu (2024), Xinyi Wang (2024), Chen Lu (2024)

Undergraduate Psychology Scholarships Placements

Aisha Shabir (2024), Cheri Au (2022)

Undergraduate Psychology Year-2 Lab Project

Ian Feng (2022), Leonie Hellwich (2022), Yue Zheng (2022), Cheri Au (2022), Muge Karan (2022)

PROFESSIONAL SERVICES

Organising

Online Psycholinguistics Reading Group | *Organisator* Oct, 2023 - present

Research Students Psycholinguistics Talks and Reading Group | *Co-organisator* Term 1, 2023

Reviewing

Ad-hoc Reviewing

Journal of Cultural Cognitive Science

Ad-hoc Collaborative Reviewing (under the guidance of Dr. Wing-Yee Chow)

Journal of Experimental Psychology: Learning, Memory, and Cognition

Language and Cognition

PeerJ

PROFESSIONAL MEMBERSHIPS

Society for Human Sentence Processing 2023 - present

SKILLS

Analytical skills: R, MatLab (EEGLAB, ERPLAB, SPM)

Research tools: Python (Psychopy), Experiment Builder, E-prime, Ibex Farm, PCIBex, Gorilla, Praat

Language skills: Mandarin Chinese (native), English (fluent)

Training:

- Learning Pupillometry From Theory to Analyses Workshop, University of Konstanz, March 2024.
- Thirty-third EEGLAB Workshop, Aspet, France, July 2023.
- Generalised Additive Mixed Models (GAMMs) Workshop, University of Reading, December 2022.
- Sixth Summer School on Statistical Methods for Linguistics and Psychology (SMLP), Introduction to Bayesian Data Analysis, University of Potsdam, September 2022.
- Advanced Core Training in Linguistics (ACTL), University of York, June 2022.

Certificates:

- Probability Theory: Foundation for Data Science, University of Colorado, through Coursera, January 2022.
- Introduction to Calculus, The University of Sydney, through Coursera, November 2021.