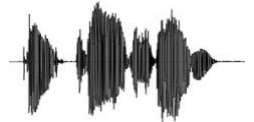# Jiaxuan Li

Master in Computational Social Science

The University of Chicago

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Contact

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EDUCATION

The University of California, Irvine   September 2021 – now
PhD in Language Science
Relevant courses: Computational Probabilistic Modeling

The University of Chicago   September 2019 – May 2021
Masters in Computational Social Science (GPA 3.8)
Relevant courses: Computational Linguistics I & II, (Advanced) Experiment methods, Psycholinguistics

The Hong Kong Polytechnic University   September 2015 – May 2019
Bachelor of Arts (Honors) in Chinese and Bilingual Studies
Major: Linguistics and Speech Sciences | *Minor*: Computer Science
Relevant courses: Psychology, Neuroscience, Web application design, Programming, Data structure

Manuscript and Presentation

Li, J.X., OU, J.H. & Xiang, M. (2021, March). The benefits and costs of language prediction: Evidence from ERPs [Conference presentation]. *In the 34th CUNY conference on human sentence processing, Pennsylvania, US.*

Li, J.X. & Ettinger, A. (2021, March). A noisy-channel model for N400 and P600 effects. *In the 34th CUNY conference on human sentence processing, Pennsylvania, US.*

Li, J.X. & Politzer-Ahles, S. (2019). Against Semantic Prediction during Online Sentence Comprehension: Evidence from Self-Paced Reading with Chinese Classifiers. *BA thesis, The Hong Kong Polytechnic University.*

RESEARCH EXPERIENCE

University of California Irvine (Dr. Richard Futrell**),** *PhD* | Irvine   2021 - now
- Increase the pragmatic interpretability of neural language models through discourse connectives
- Investigate asymmetries in syntactic ambiguity with a noisy-channel model

University of Chicago (Dr. Ming Xiang**),** *supervised researcher* | Chicago   2019 – 2021
- Investigate the neural nature of contextual and effects on expected and unexpected linguistic inputs
- Responsible for experiment design, creating stimuli, data collection and data analysis
- Conducted Event-Related Potentials (ERPs) and Auditory Brain Response (ABR) experiments
- In response to covid: manage data collection with overseas labs

University of Chicago (Dr. Allyson Ettinger**),** *supervised researcher* | Chicago   2019 – 2021

- Impleted neural-computational noisy-channel models to account for sentence processing experiment data
- Successfully simulated 9 experiments with diverging results related to role-reversal and semantic illusion
- Probed semantic and thematic learnibility of various language models

University of Chicago (Dr. Howard Nusbaum**),** *supervised researcher* | Chicago   2019 – 2020
- Investigate the symbolic gestural facilitation of implicit Mandarin tone learning
- Developed Mandarin tone variation database, designed implicit learning paradigm with a commercial VR game
- In response to covid: developed online rhythm games and collect reation time data

Undergraduate Capstone Project (Dr. Stephen Politzer-Ahles**)** | Hong Kong   2018 – 2019

- Investigated probabilistic word pre-activation during sentence comprehension
- Designed and developed a self-paced reading experiment

The Hong Kong Polytechnic University (Dr. Angel Chan), *research assistant* | Hong Kong   2018 – 2019
- Investigated 'Asymmetries in Cantonese Children's Comprehension and Production of Relative Clauses: Structure, Typology and Processing'
- Assisted in data collection of eye-tracking experiments and elicited production tasks
- Conducted pre-processing and coding of eye-tracking data

The Hong Kong Polytechnic University (Dr. Yat-Mei Lee), *research assistant* | Hong Kong   September 2018 – December 2018
- Participated in the project 'Meaning Behind the Message: The interplay of Form, Event, and User Profile in Implicit Emotions'
- Assisted thematic-role annotation

University College London (Dr. Wing Yee Chow), *research assistant* | London, UK   July 2018 – September 2018
- Investigated psychological and neurological aspects of time-course language prediction
- Assisted in designing experimental stimuli and processing the cloze probability of the stimuli
- Assisted in data collection for an eye-tracking and an ERP experiment
- Optimized the experimental program with E-Prime

The University of Cambridge, *exchange student* | Cambridge, UK   June 2017 – September 2017
- Investigated the impact of age and literacy acquisition on first language attrition

INDUSTRY EMPLOYMENT

Sogou, Lnc., linguistic engineer | Beijing, China   September 2018 – February 2019
- Responsible for semantic annotation of natural speech data to develop a voice assistant
- Coordinated with different groups and optimized annotation process

AWARDS & SCHOLARSHIPS
- University of Chicago Merit Scholarship, 40,200USD   2020
- University of Chicago Merit Scholarship, 27,000USD   2019
- HKSAR Government Scholarship Fund, 10,000HKD   2019
- Undergraduate summer research abroad sponsorship #USRA 1809, 50,000 HKD   2018
- Dean's Certificate of academic achievement, 1,000 HKD   2016 – 2017
- Summer abroad subsidy, 50,000 HKD   2016

SKILLS
Data analysis and statistics: R, SPSS, Microsoft Excel, MATLAB
Experimental techniques: Eye-tracking, EEG, Praat, E-Prime, EGG
Programming: Python, C, Java, HTML, JavaScript, PHP, JsPsych, Ibex Farm
Language: Mandarin(native), English(advanced), Cantonese(advanced), Japanese(intermediate)