

MINGHUA WU

Field|Computational linguistics, Psycholinguistics

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EDUCATION

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- 2018.9-2021.7 **M.A.Chinese linguistics**
Department of Chinese Language and Literature, Peking University
 - 2019.8-2021.9 **M.A.,Chinese Studies**
Double Degree Programme - National University of Singapore & Peking University
 - 2014.9-2018.6 **B.A.,Teaching Chinese to Speakers of Other Languages**
Institute for International Students, Nanjing University

SKILLS

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- Programmation** Python, R, MATLAB.
 - Linguistics** Praat, NLTK, Stanford Parser, ELAN, E-Prime.
 - Office** \LaTeX , Pack Office(Word, Excel, PowerPoint).

WORKING EXPERIENCE

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- 2023.3 **Research Assistant | lab of Prof.Ping Li, THE HONG KONG POLYTECHNIC UNIVERSITY,**
now
 - > Assist in the perception project around LLMs
 - > To be continued...

psycholinguistics cognitive neuroscience
 - 2022.10 **Research Assistant | lab of Prof. Qing Cai , EAST CHINA NORMAL UNIVERSITY,**
2021.10
 - > Assist in the preschool project which explores the development of cognitive control and executive functions of children. Tasks include conducting experiments on preschoolers, statistical analyzing, reporting the experiment results, writing up manuscripts for publication etc.

psycholinguistics cognitive neuroscience

PROJECTS

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- 2022.3 **Semantics of Approximative Adverbs in Chinese,**
Collaborate with Hai Hu from Shanghai Jiaotong University, based on my thesis project :
 - > Construct a dataset of approximative adverbs and annotate it with linguistic features;
 - > Design a questionnaire to examine how people understand the truth value of propositions involving approximative adverbs;
 - > Run regression models to detect how annotated linguistic features predicate people's understanding of the approximative adverbs.

behavioral experiment semantics computational model

- 2021.10 **Development of Cognitive Control of children from 3 to 6 years,**
 2022.9 A longitudinal research during my RA period at East China Normal University
 > Conduct cognitive control experiments on 148 children from two preschools using E-prime software;
 > Perform correlation and regression analysis with R, and report the results.
 behavioral experiment statistical analysis cognitive neuroscience
- 2021.6 **The recognition of redundant negation , MASTER'S THESIS,**
 2020.9 This project investigates the linguistic characteristics of redundant negation and examines the ability of neural language models to understand redundant negation :
 > Collect and annotate sentences interpreted as redundant negation ;
 > Detect the syntactic features which could be used to recognize the expletive negation ;
 > Detect the ability of neural language models to process redundant negation.
 neural language models semantics syntax
- 2018.9 **Building an Online Chinese Construction,**
 2020.9 The database includes more than 1,000 Chinese constructions, annotated with plenty of semantic, syntactic and pragmatic characteristics.
 > Annotate and check the information on syntactic, semantic and pragmatic features.
 language resource linguistic analysis
- 2017.9 **The external causer argument in Chinese verb-resultative constructions, BACHELOR'S THESIS,**
 2018.6 We study the syntax and semantic features of subjects in the sentences having V-R as their predicates, from the perspective of cognitive linguistics.
 semantics syntax
- 2016.9 **Effects of Language Backgrounds on Listeners' Perception of Accented Speech,**
 2017.12 The project is led by me, funded by the National Training Program of Innovation for Undergraduates. We examine how native languages and exposure to accented speech influence listeners' perception and understanding of accented speech based on an E-prime experiment.
 behavioral experiments language acquisition statistical analysis

PAPERS

- 2021 The Recognition of Redundant Negation in Chinese : An Experiment with RoBERTa. Peking University.
- 2018 A Study on the Syntax and Semantics of the External Causer Argument of Modern Chinese V-R Construction. Nanjing University.
- 2018 Wu Minghua, et al. The Effects of Language Background on Listeners' Perception, Intelligibility and Comprehensibility of Accented Chinese Speech. Chinese Language Globalization Studies, 2018(1):163-173.

PRESENTATIONS

- June 17, 2017 **The Effects of Language Background on Listeners' Perception, Intelligibility and Comprehensibility**
The 14th International Conference on Chinese Language Pedagogy, Macau, China (All of the audience are teachers or students studying the Chinese language.)
- Nov. 19, 2017 **A study on the foreign accent from listeners' perspective**
The 10th annual conference on Innovation and Entrepreneurship for national college students, Dalian, China (This presentation is for people from a range of disciplinary backgrounds.)

AWARDS

- Nov. 2017 **Best Paper Award**
At the 10th annual conference on Innovation and Entrepreneurship for national college students; selected from 166 papers covering various research fields; awarded by the Chinese Ministry of Education, with consideration of not only the quality of paper but also the presentation on the conference.
- 2018-2019 **Science Talent Scholarship for graduate students at Peking University**
This scholarship is awarded on the basis of students' academic excellence and promise in the proposed field.