

# ZHENGXIANG WANG

<https://jaaack-wang.github.io/jaaack-wang/>

## EDUCATION

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**University of Saskatchewan, Canada** Sep 2019 – May 2021

- Master of Arts in Applied Linguistics; average score: 88/100
- Thesis: A macroscopic re-examination of language and gender: A corpus-based case study in university instructor discourses [[PDF](#)] (Nominated for Thesis Award, in process)

**Hunan University, China** Sep 2015 – June 2019

- Bachelor of Arts in Chinese Language and Literature; GPA: 3.66/4; *summa cum laude*
- Thesis: Analysis on the quantitateness of reduplication in Modern Mandarin (score: 92/100)

## FORMAL RESEARCH EXPERIENCES

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**Graduate Research Assistant, University of Saskatchewan** May 2020 – Jun 2021

*Supervised by Prof. Veronika Makarova, Prof. Zhi Li*

- Research topics: disfluency and unfilled pauses; academic English writing by L2 learners
- Roles: provided technical (e.g., programming, website development), recruitment, and project management supports; bibliographic research and manuscript writing; conference presentation

**Student Principal Investigator, Hunan University** Apr 2017 – May 2019

*Supervised by Prof. Lanyu Peng*

- Project: Grammar as science: Rethinking the construction of Modern Chinese Grammar [[PDF](#)] (in Chinese, 99 pages), funded by the National Student Innovation Training Program
- Outcomes: 11 essays/papers with one published; first-prize in the final project presentation

**Research Intern, University of Alberta** Jun 2018 – Sep 2018

*Supervised by Prof. Benjamin V. Tucker*

- Research topic: effects of English phenetic reduction on Chinese L2 learners [[Poster](#)]
- Roles: used Praat to annotate and segment phonetically reduced words in a corpus of spontaneous English as stimuli; designed and run a psycholinguistic experiment with E-prime 2

## PUBLICATIONS & MANUSCRIPTS

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- Li, Z, Makarova, V & **Wang, Z.** (2022). Developing literature review writing skills through an online writing tutorial series: Corpus-based evidence. *Frontiers*. Abstract accepted.
  - **Wang, Z** (2021). Linguistic Knowledge in Data Augmentation for Natural Language Processing: An Example on Chinese Question Matching. *ArXiv:2111.14709v2 [cs.CL]*. [[PDF](#)]
  - **Wang, Z**, Li, Z & Zhou, Z. A proposal for unfilled pause reclassification in spontaneous English speech. Manuscript in preparation.
  - Peng, L, & **Wang, Z.** (2017). The contemporary reflection on the Sentence-Based theory postulated by *New Grammar of Modern Chinese*. *Journal of Hengyang Normal University*, 38(5), 95. [[PDF](#)]

## PRESENTATIONS

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- **Wang, Z.**, Li, Z & Makarova, V. (2021). Developing an online academic writing tutorial for non-native English speaking international graduate students in diverse programs of studies. International Teaching Online Symposium, University of Windsor.
- **Wang, Z.**, Tucker, B. V. & Mukai, Y. (2018). How does Chinese learner of English perceive and comprehend phonetic reduction? Summer Poster Symposium at University of Alberta.

## TEACHING & MENTORING

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**Research Mentor**, Mitacs Apr 2021 – Sep 2021

- Mentored 9 visiting undergrad researchers to University of Saskatchewan
- Answered questions, explained policies, and organized virtual social events

**Online English Tutor**, Changjun Long-distance Education Mar 2017 – May 2019

- Taught English to high-school students in the form of pre-recorded videos
- Created assignments; responded to students' questions; interacted with parents

## SKILLS

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**Programming** Python (Advanced), R (Fluent), Java (Fluent), MATLAB/Octave (Fluent), JavaScript (Elementary), C (Elementary)

**Markup Languages** HTML, Markdown, XML

**Linguistic Tools** Praat, E-Prime, autosub (auto speech-to-text transcription), cloud translation (Google, Baidu, Papago etc.), LanguageTool (writing checker)

**Languages** Mandarin (Native), Fuqing dialect (Native), English (Advanced), Korean (Elementary), classic Chinese reading & writing (Advanced) Shandong dialects (fieldwork), Media Lengua and Quichua (coursework)

## CERTIFIED COURSES & TRAINING

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Deep Learning Specialization (Deeplearning.AI); Machine Learning (Stanford Online); Deep Learning Based Natural Language Processing (Baidu PaddlePaddle); Linear Algebra (Imperial College London); Multivariate Calculus (Imperial College London); Introduction to Calculus (University of Sydney).

## NLP RESOURCES

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**Deep Learning** Notes for Stanford CS224N NLP with Deep Learning ([Notes](#))  
Deep Learning Based NLP using paddlenlp ([Notes](#))  
Word Embedding ([Tutorials](#)); Gradient Derivation ([Tutorials](#))

**Text processing** Text Augmentation techniques ([Source Code](#))  
Historical English Language Processing Toolkit ([Source Code](#))  
Linguistic Feature Extractor ([Source Code](#))  
Unfilled Pause Classifier ([Source Code](#))

**Web Scraping**                      Google Scholar Analyzer ([Source Code](#))  
YouTube Info Collector ([Source Code](#))

## COMMUNITY SERVICES

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**ESL classroom volunteer**, The Global Gathering Place, Saskatoon                      Dec 2019 – Mar 2020

- Provided in-classroom supports for adult immigrants to learn English

**Organizer and Volunteer**, Univ. of Regina Study-in-China program, HNU                      May 2019 – Jun 2019

- Arranged student volunteers and organized reception events
- Helped one visually impaired Canadian student with life and Mandarin

**Interpreter**, UNESCO conference “Role of linguistic diversity”, Changsha                      Sep 2018

- Served as an interpreter and local guide for a Japanese professor

## AWARDS & HONORS

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- John Spencer Middleton & Jack Spencer Gordon Middleton Graduate Award, 2020
- Mitacs Globalink Graduate Fellowship, Mitacs, 2019
- Excellent Graduate of the year, Hunan University (one of three in my department), 2019
- Chinese Government Scholarship, China Scholarship Council, 2018
- The First-Class Scholarship, Hunan University, 2017, 2018
- National Student Innovation Training Program Grant, Ministry of Education of China, 2017
- Triple-A student, Hunan University (the single one in my department), 2016
- National Scholarship, Ministry of Education of China, 2016