

ZHENGXIANG WANG

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

EDUCATION

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)

CERTIFIED COURSES & TRAINING

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).

FORMAL RESEARCH EXPERIENCES

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

-
- 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), 95-101.

PRESENTATIONS

- **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

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

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 APIs (Google, Baidu, Papago etc.)

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

NLP RESOURCES

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

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

- 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