

# 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: 3.9/4.5; *summa cum laude* (Excellent Graduate of the year)

## 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)

## 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; results 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
- 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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- **Wang, Z** (2021). Linguistic Knowledge in Data Augmentation for Natural Language Processing: An Example on Chinese Question Matching. ArXiv:2111.14709v1 [cs.CL]. [[PDF](#)]
  - **Wang, Z.** (Submitted). Understanding language and gender in university instructor discourses: A corpus-based case study. *Text & Talk*.

- **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.

## RESOURCES

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<b>Deep Learning</b>	Stanford CS224N NLP with Deep Learning ( <a href="#">Notes</a> ) Deep Learning Based NLP using paddlenlp ( <a href="#">Notes</a> ) Word Embedding ( <a href="#">Tutorials</a> ) Gradient Derivation ( <a href="#">Tutorials</a> )
<b>Text processing</b>	Data Augmentation for NLP ( <a href="#">Project</a> ) Historical English Language Processing Toolkit ( <a href="#">Source Code</a> ) Linguistic Feature Extractor ( <a href="#">Source Code</a> ) Unfilled Pause Classifier ( <a href="#">Source Code</a> )
<b>Web Scraping</b>	Google Scholar Analyzer ( <a href="#">Source Code</a> ) YouTube Info Collector ( <a href="#">Source Code</a> )

## SKILLS

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<b>Programming</b>	Python, R, Java, MATLAB/Octave
<b>Languages</b>	Mandarin (Native), Fuzhou Dialect (Native), English (Advanced), Korean (Elementary), classic Chinese reading & writing (Advanced)

## 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), 2017
- National Scholarship, Ministry of Education of China, 2017