

Haotian He

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Interests

Broad Phonetics
Narrow Acoustic phonetics, Speech perception, Synthetic speech, & First language acquisition

Professional

- 2017 - Software Development Engineer, **APPLE INC.**, Cupertino, CA
- Deliver premium and neural TTS voices for all Apple devices and platforms since iOS 11.
 - Implement and maintain CI/CD pipelines for TTS quality and performance assurance and release.
 - Focus on TTS voice quality and performance improvement for all Siri voices.
- 2014 - 2017 Computational Linguist & Application Developer, **CERENCE INC.**, Bellevue, WA
- Released S Voice personal assistant for Samsung flagship smartphones Galaxy S6 and S7.
 - Implemented CI/CD framework for natural language understanding evaluation and improvement.
 - Worked on Chinese specific NLU issues, including word segmentation and Pinyin normalization.
- 2013 Research Assistant, **UNIVERSITY OF WASHINGTON**, Seattle, WA
- Participated in TransPHorm: Translation of Public Health Information for a Diverse Public.
 - Analyzed Chinese machine translation errors and their categorizations for annotation guidelines.
 - Managed the crowd-sourcing work for error annotations via Amazon Mechanical Turk.
- 2009 - 2011 Project Assistant, **SPEECHOCEAN**, Beijing, China
- Built Speechocean flagship speech synthesis corpus products in Chinese, Portuguese and Korean.
 - Conducted manual and automatic labeling for speech phoneme alignment and ToBI.

Education

DEGREE PROGRAMS

- 2012 - 2014 M.S. in Computational Linguistics, **UNIVERSITY OF WASHINGTON**, Seattle, WA
- *Internship on Chinese Natural Language Understanding Issues in Conversational Interface*
- 2008 - 2012 B.A. in Linguistics, **BEIJING LANGUAGE AND CULTURE UNIVERSITY**, Beijing, China
- *Acoustic and Perceptual Studies on the Jianghuai Mandarin Tones*

NON-DEGREE STUDIES

- 2019 - Graduate Certificate in Artificial Intelligence, **STANFORD UNIVERSITY**, Stanford, CA
- 2018 - 2019 Coursera Specialization in [Machine Learning](#), **UNIVERSITY OF WASHINGTON**, Seattle, WA
- 2011 - 2012 Visiting Student in Phonetics, **CHINESE ACADEMY OF SOCIAL SCIENCES**, Beijing, China
• *A Duration Study of Infants' Neutral Tone Acquisition in Mandarin Chinese*

Teaching

- 2012 Lecturer in Chinese, **BEIJING LANGUAGE AND CULTURE UNIVERSITY**, Beijing, China
• **CHIN 101: Basic Comprehensive Chinese** and **CHIN 111: Basic Oral Chinese**
• Taught to university students with a focus on Hanyu Pinyin and Chinese pronunciation.
- 2011 Teaching Assistant, **BEIJING LANGUAGE AND CULTURE UNIVERSITY**, Beijing, China
• Taught to intensive training students with a focus on Chinese pronunciation.

Languages

NATURAL

- Native Mandarin Chinese (cmn)
- Intermediate English (eng), Wu Chinese (wuu), & Japanese (jpn)
- Basic Korean (kor), Vietnamese (vie), Russian (rus), & Thai (tha)

COMPUTING

- Intermediate Python, Java, Praat & Matlab script
- Basic HTML, R, & \LaTeX