

# Haotian He

Apple Inc.  
One Apple Park Way, 929-4SIR  
Cupertino, CA 95014  
United States

+1.669.210.4342

[haotian@apple.com](mailto:haotian@apple.com)

Gies College of Business  
University of Illinois at Urbana-Champaign  
Champaign, IL 61820  
United States

+1.206.953.6672

[hhe17@illinois.edu](mailto:hhe17@illinois.edu)

## Professional

- 2017 - Senior Machine Learning Engineer, **APPLE INC.**, Cupertino, CA
- Deliver premium and neural Siri voices on Apple products since iOS 11.
  - Create scalable end-to-end Siri voice building and release infrastructure.
  - Optimize massive data processing and validation for Text-to-Speech research and development.
  - Establish and maintain CI/CD pipelines for Siri voice quality and performance improvement.
- 2014 - 2017 Computational Linguist & Application Developer, **VOICEBOX TECHNOLOGIES**, Bellevue, WA
- Released S Voice personal assistant for Samsung flagship smartphones Galaxy S6 and S7.
  - Established and maintained CI/CD framework for natural language evaluation and improvement.
  - Worked on Chinese specific NLU issues about 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 crowdsourcing tasks for translation error annotations via Amazon Mechanical Turk.
- 2011 - 2012 Visiting Student, **CHINESE ACADEMY OF SOCIAL SCIENCES**, Beijing, China
- Participated in Early Acquisition of Speech Prosody: A Comparative Study of Dutch and Chinese.
  - Attended speech development analysis meetings with a study focus on tone acquisition.
  - Implemented various Praat scripts to process speech data and ToBI labeling for children's speech.
- 2010 - 2011 Project Assistant, **SPEECHOCEAN**, Beijing, China
- Built Speechocean flagship speech synthesis corpus products for Chinese, Portuguese and Korean.
  - Conducted manual and automatic labeling for speech phoneme alignment and ToBI.

## Education

### DEGREE PROGRAMS

- 2020 - M.B.A., **GIES COLLEGE OF BUSINESS, UNIVERSITY OF ILLINOIS**, Urbana-Champaign, IL
- 2012 - 2014 M.S. in Computational Linguistics, **UNIVERSITY OF WASHINGTON**, Seattle, WA
- *Internship on Chinese Natural Language Understanding Issues on Conversational Interface*
- 2008 - 2012 B.A. in Linguistics, **BEIJING LANGUAGE AND CULTURE UNIVERSITY**, Beijing, China
- *Acoustic and Perceptual Studies on Tones of Lower Yangtze Mandarin*

## NON-DEGREE STUDIES

- 2020 Professional Certificate in Real Estate Development, **DE ANZA COLLEGE**, Cupertino, CA
- 2019 Coursera Specialization in [Machine Learning](#), **UNIVERSITY OF WASHINGTON**, Seattle, WA

## Teaching

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

## Languages

### NATURAL

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

### COMPUTING

- Intermediate Python, Java, Kotlin, JavaScript, HTML & Praat  
Basic Go, Julia, Rust, D3.js &  $\LaTeX$