

# *Weiwu Zhu*

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## Education

**Peking University, Beijing, China**

M.S. in Software Engineering

Sep. 2008 - Jun. 2011

**Wuhan University, Wuhan, China**

B.S. in Software Engineering

Sep. 2004 - Jun. 2008

## Employment

**Microsoft**

Bellevue, WA, United States

Senior Software Engineer

Jan. 2015 - Present

- Working on **Bing Local Entity Search** as a **Tech Lead**, especially on entity understanding by leveraging **Deep Learning**, search relevance, and large scale data mining.

**Microsoft China**

Beijing, China

Software Engineer

Jul. 2011 - Dec. 2014

- Worked on **Knowledge Graph** cataloging billions of entities and their relationships, and drove Microsoft next generation **Answer Platform** based on the Knowledge Graph as a **Tech Lead**, and enabled inexperienced users to create and ship a new Answer experience on **Bing** in few hours efficiently.
- Worked on the backend algorithm of **Speech Synthesis (TTS)** engine and **Natural Language Generation (NLG)** engine for Microsoft **Cortana**, **Xbox**, and Nokia Here turn-by-turn navigation.

## Experience

**Speech Group at Microsoft Research Asia**

Beijing, China

Intern Researcher

Jan. 2010 - Jun. 2011

- Research project: Voice Activity Detection for speech recognition in noisy environments.
- Research project: Speech Enhancement using microphone array for speech recognition.

## Patent

**Weiwu Zhu**, jointly with Ming Sui & Shengcai Peng, Language Modeling For Speech Recognition Leveraging Knowledge Graph, *WO2016196320*

**Weiwu Zhu**, jointly with Albert J. Thambiratnam & Frank T. Seide, Leveraging speech recognition feedback for voice activity detection, *United States Patent No. 8,650,029*

## Publication

**Weiwu Zhu**, Using Knowledge Graph and Search Query Click Logs in Statistical Language Model For Speech Recognition, *InterSpeech 2017*

Kit Thambiratnam, **Weiwu Zhu**, and Frank Seide, Voice Activity Detection Using Speech Recognizer Feedback, *InterSpeech 2012*

## Award

**Hack Day in Microsoft Search Technology Center Asia, China**

Category Winner

Apr. 2013

**Microsoft Research Asia, China**

Certificate of Excellent Internship

Jul. 2011

**Peking University, China**

School Scholarship Award

2008 - 2009

**Programming Contest in Wuhan University, China**

3rd Place Award

2007 - 2008

## Skill

**Programming:** Skilled in Python, and familiar with C++, C#, Java, and SQL language; Familiar with Object Oriented Programming, Speech Technology, Knowledge Graph, Search Relevance, Design Patterns, Machine Learning, Operating System and Compiler;

**Language:** Chinese (native), English (fluent)