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 — Senior Software Engineer
Bellevue, WA, United States — 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.
- Built an advanced local entity understanding system by leveraging **Convolutional Neural Network**, and beat the competitor in our accuracy metrics.

Microsoft China — Software Engineer
Beijing, China — 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

Microsoft Research Asia — Intern Researcher
Beijing, China — 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, 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 Speech Technology, Knowledge Graph, Search Engine, Natural Language Processing, and Machine Learning;

Language: English (fluent), Chinese (native)