MENG CHEN Mobile Phone: (+86) 188-0125-8201 Email: chenmengdx@gmail.com

Research Interests: Language Modeling and Understanding

Education:

- 2009.9~2012.6 Graduate University of Chinese Academy of Sciences (GUCAS)
  - Master of Sciences degree in Computer Application Technology(Supervisor: Prof. Helen Meng)
- 2005.9~2009.6 University of Science & Technology Beijing (USTB)
  - Bachelor of Sciences degree in Computer Science & Technology(Top 10 in 145 students)

Related Experience:

- 2016.5~Present **Nuance Communications** Research Scientist - Language Modeling
  - Language modeling for Chinese speech recognition products (Dragon Drive).
- 2013.12~2016.4 **Nuance Communications** Senior Software Engineer in Linguistic
  - Accountable for language modeling for Chinese Swype/XT9 Input Method Editor product on both device and cloud side, by researching and developing new word detection/text classification/corpus selection algorithms, improved Character Error Rate Reduction (**CERR**) by ~**18%** accumulatively
  - Proposed re-ranking Chinese cloud prediction candidates with Recurrent Neural Network Language Model (**RNNLM**), improved CERR by ~**4%**. Researched on Chinese abbreviation generation algorithm with traditional feature engineering approach (**CRF**) and deep learning approach (**NeuroCRF**)
  - Attended **Nuance Research Conference 2015** at Montreal Canada and gave poster presentation, attended international academic conference of **ACL 2015** at Beijing, visited **Seattle** team in USA and gave invited talks
- 2012.7~2013.12 **Sogou Inc.** Assistant Researcher in Sogou Speech Team
  - Performed statistical language modeling for **Mandarin**/**Cantonese** speech recognition systems using terabytes corpus
  - Set up distributed computing platform with hadoop, and developed distributed language model training tools based on Map-Reduce framework
  - Analyzed field data, and implemented language model adaptation to improve recognition accuracy
- 2010.8~2012.6 AIMS Lab, **Chinese Academy of Sciences (CAS)** Master Candidate
  - Researched the core algorithm of automatic scoring of pronunciation in oral English test based on Automatic Speech Recognition (ASR) and deployed the system in high school (Shenzhen Yucai High School)
  - Researched on language modeling adaptation for non-native spontaneous English speech recognition
  - Authored papers in **WMSCI 2011** and **ICALIP 2012** (first author), registered **1** Computer Software Copyright, and invited to participate in the 6th Beijing-Hong Kong International Doctoral Forum
- 2009.12~2010.6 **Microsoft (China) Co., Ltd.** Software Development Engineer (SDE) Intern
  - Investigated the backend technology of Chinese Cloud Text Input Prediction, designed and developed a tool to evaluate the accuracy of Cloud Text Input Prediction, which helped to bridge a gap for the testing work of the team
  - Explored Microsoft PlayReady DRM, setup Immigrant and Backup of SharePoint demo site, investigated SharePoint 2010 Manageability. Participated in investigation and planning of the next generation product of Office

Skills & Language:

- Proficient in C/C++, Perl/Python, Linux, Hadoop, Fluency with English
- Strong capabilities of independent study/research/engineering. Strong analytical/communication/organizational skills.

Publications:

- **Meng Chen**, "*Re-ranking Chinese Cloud Text Input Prediction with RNNLM*", in Nuance Research Conference 2016 (NRC 2016), 2016.
- Ning Han, **Meng Chen**, and Nan He, "*Collect and Filter Weibo for Chinese ALM Training Corpus*", in Nuance Research Conference 2016 (NRC 2016), 2016.
- **Meng Chen** and Qi Zhang, "*Chinese Cloud Text Input Prediction: From Core & Linguistic Perspective*", in Nuance

Research Conference 2015 (NRC 2015), 2015.

- **Meng Chen**, Yang Song and Lan Wang, "*Adapted Language Modeling for Recognition of Retelling Story in Language Learning*", in Proc. 3rd International Conference on Audio, Language and Image Processing (ICALIP 2012), 2012.
- **Meng Chen**, Dean Luo and Lan Wang, "*Automatic Scoring in a Task of Retelling Stories for Language Learners*", in Proc. 15th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2011), 2011.

Awards and Honors:

- Graduate: Dean Scholarship of CAS (Top 5%), Season Scholarship of CAS (Top 5%), Excellent Students Awards (Top 10%)
- Undergraduate: National Inspirational Scholarship, TAIGANG Academic Scholarship, Outstanding Students Awards