

# Xiong Zhang

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## EDUCATION

- University of Rochester, US Sep 2015 – Present  
**Ph.D. Student in Computer Science, Advisor: Philip Guo**
- Harbin Institute of Technology, China Sep 2013 – July 2015  
**M.S. in Computer Science, Advisor: Haifeng Li**
- Harbin Institute of Technology, China Aug 2009 – July 2013  
**B.S. in Computer Science**
- Tsinghua University, China Sep 2010 – Feb 2011  
**Exchange in Computer Science**

## PUBLICATIONS

- **Xiong Zhang**, Philip J. Guo: *Fusion: Opportunistic Web Prototyping with UI Mashups*. ACM Symposium on User Interface Software and Technology (UIST), 2018
- (Honorable Mention) **Xiong Zhang**, Philip J. Guo: *DS.js: Turn Any Webpage into an Example-Centric Live Programming Environment for Learning Data Science*. ACM Symposium on User Interface Software and Technology (UIST), 2017
- **Xiong Zhang**, Min Wang, Lijuan Wang, Qiang Huo and Haifeng Li: *Building Handwriting Recognizers by Leveraging Skeletons of Both Offline and Online Samples*. International Conference on Document Analysis and Recognition (ICDAR), 2015

## INDUSTRY EXPERIENCE

- **Crowdsourcing for Content Production** SNAP RESEARCH  
Mentors: Andres Monroy-Hernandez, Rajan Vaish Oct 2017 – Jan 2018
  - Built a prototype system for content production by guiding the crowd users.
- **Information Bot for Events** FUSE LAB OF MICROSOFT RESEARCH REDMOND  
Mentors: Will Portnoy, Lars Liden, Andres Monroy-Hernandez Jun 2016 – Aug 2016
  - Built an information bot for the BumberShoot event in Seattle using Microsoft Bot Framework, available on both Facebook Messenger and SMS.
- **Offline Handwriting Recognition** SPEECH GROUP OF MICROSOFT RESEARCH ASIA  
Mentors: Lijuan Wang, Qiang Huo, Frank Soong Apr 2014 – June 2015
  - Made the first effort to build a recognizer for cursive human handwriting in Microsoft Research.
  - Implemented an offline handwriting system based on Bidirectional Long Short-Term Memory & Hidden Markov Model hybrid structure, the system achieves comparable results with state-of-the-art systems on the IAM database.
  - Proposed the method to mix skeletonized online handwriting data with offline handwriting data to enlarge the training set, which further improves the recognition accuracy.
- **Audio Visual Speech Recognition** SPEECH GROUP OF MICROSOFT RESEARCH ASIA  
Mentors: Lijuan Wang, Frank Soong Dec 2012 – Aug 2013
  - Developed a method to fuse visual features (dimension reduced mouth image pixels by PCA) with audio features to improve speech recognition accuracy in videos.
  - Made the first effort to build large audio-visual speech database from MOOC platforms, which included 5 hours high quality audio visual speech data.
  - Implemented an audio-visual speech recognition system based on Deep Neural Network & Hidden Markov Model hybrid structure on the collected audio-visual database.

## TEACHING

- TA for GBA 464 Programming for Analytics Summer 2018
- TA for CIS 442F Big Data Spring 2018
- TA for CSC 212/412 Human Computer Interaction Spring 2017
- TA for CSC 210/410 Principles of Web Application Development Fall 2016
- TA for CSC 252 Computer Organization Spring 2016

## **SERVICE**

- Reviewer
  - CSCW 2018

## **SKILLS**

- **Programming**
  - Comfortable with various programming languages, paradigms and frameworks
- **Musical Instruments**
  - Amateur acoustic guitar player

## **HONORS & AWARDS**

- Outstanding Masters Thesis Award, 2014, Harbin Institute of Technology
- First Class Graduate Fellowship, 2013 & 2014, Harbin Institute of Technology
- First Class People's Scholarship, 2010, Harbin Institute of Technology