

Shuguang Chen

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Education

University of Houston, Houston, TX, United State *Aug. 2018 – Present*
Ph.D. student in Computer Science, at RiTUAL Lab
Research: Natural Language Processing, Advisor: Dr. Thamar Solorio

Beijing Forestry University, Beijing, China *Sept. 2014 – July. 2018*
B.S. in Computer Science and Technology

Research Interest

Natural Language Processing, with a special focus on Name Entity Recognition.

Work Experience

Teaching Assistant, *Department of Computer Science, University of Houston* *Aug. 2018 - Present*

- Course: COSC 1306 Computer Science and Programming, Instructor: Dr. Shou-Hsuan Huang
- Course: COSC 6358 Interactive Game Development, Instructor: Dr. Chang Hoon Yun

Teaching Assistant, *School of Information, Beijing Forestry University* *Sept. 2015 - July 2017*

- Course: Programming in C, Instructor: Prof. Chunling Wang

Web Application Developer, *School of Information, Beijing Forestry University* *July. 2016 - Jan. 2017*

- Developed a Cultural and Creative Industry Public Services platform for the University, using MySQL, Struts, Hibernate, and Spring MVC.
- Engaged in UI design and implementation with Struts, JSP, Servlet, HTML5, CSS, *etc.*

Research Experience

Project: Multimodal Name Entity Recognition on Social Media *Aug 2019 – Present*
Supervisor: *Prof.* Thamar Solorio

- Combining textual and visual information to achieve name entity recognition in Tweets using bidirectional Long Short Term Memory (LSTM) and Conditional Random Field (CRF)
- Focused on multimodal information extraction, retrieval and fusion.

Project: Sequences Generation with Recurrent Neural Networks (RNNs) *Mar 2017 – May 2018*
Supervisor: *Prof.* Wei Men

- Using the Long Short Term Memory (LSTM) model and RNNLIB library to achieve handwriting recognition, study, and generation functionalities.
- Responsible for training the RNNs with a mixture density output layer and the source data of different handwriting styles.

Project: Recognition and Processing of Human Voice

Mar. 2015 - Nov. 2015

Supervisor: *Prof.* Yanyan Xu

- Worked on extracting and analyzing the features of human voice with Linear Prediction Coefficient (LPC) filtering and Fourier transform.
- Performed the synthesis of voice signals with Pitch Synchronous Overlap and Add (PSOLA) technique.
- Used the random forest algorithm and sufficient samples to train the system.

Honors & Awards

Academic and Scientific Competitions

- **Honorable Mention**, American Interdisciplinary Contest in Modeling 2017
- **Bronze Metal**, China Collegiate Programming Contest 2016
- **2rd Award**, The 7th Beijing LAN QIAO Cup National Software Competition 2016

Scholarships and Awards

- **Outstanding Undergraduate Awards**, *Beijing Forestry University* 2018

Technical Skills

- **Programming Languages:** Python, C/C++, Java, C#
- **Web Programming:** JavaScript, HTML/CSS, Spring, Hibernate, Django
- **Database Engines:** MySQL, SQL Server
- **Libraries:** Scikit-learn, Keras, PyTorch