Yixiao **Zhang**

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Natural Language Processing, Data Mining, Symbolic Music Generation

Education

University of Electronic Science and Technology of China(UESTC) — *Chengdu, P.R.China*

985, 211, one of top 10 universities in Computer Science — *Sept. 2015 - Exp. Jun. 2019*

- B.S. in Computer Science and Engineering
- GPA: 3.80/4, Average Score: 87.01/100, TOEFL: 95

Research Experiences

Machine Learning Group - Microsoft Research of Asia — *Beijing, P.R. China*

Research Intern — *Nov. 2018 - Current*

- Working on finance data mining and deep learning, supervised by Dr. Weiqing Liu.
- Designed a prediction model to evaluate the actual financial value using existed history data.

University of Lethbridge, Mitacs Globalink Program 2018 — *Lethbridge, Alberta, Canada*

Research Assistant — *Jul. 2018 - Oct. 2018*

- Research assistance under supervision of Prof. Yllias Chali.
- During this period, I assist a PhD. to complete the evaluation part of a text summarization model. Furthermore, to improve the performance of summarization, especially the grammar, I reproduced a deep neural model based on VAE using PyTorch, and transfer the model into summarization task.
- I joined the discussion and development of a question answering model, which is related to Master's thesis. I also contributed to the programming part of the model.

Institute of Intelligent Learning Science and Applications of UESTC — *Chengdu, P.R. China*

Undergraduate Research Program — *Jun. 2016 - Jun. 2018*

- Research assistant in Natural Language Processing under supervision of Prof. Qu.
- During this period, I did some research on abstract summarization, and developed a deep model, which aimed to improve the quality of summarization result. This model took part in NLPCC 2018 Shared Task, and I wrote a pre-print draft to conclude my deep model.

Programs

Symbolic Music Generation Model with Emotion Recognition and Adversarial Training — *Chengdu, P.R.China*

Team Leader & Coder, Innovation Funding of School of CSE — *Apr. 2017 - Sept. 2017*

- Built a music generation model, which is combined by two neural network units.
- User can input a sentence or an image, then emotion analysis module extracts a emotion vector. The music generation module receives the vector, and generate background music in different styles.
- Used Convolutional Neural Network, Cognitive Service, Deep Convolutional Generative Adversarial Network.
- Outstanding Prize, Yinxinghuang School-Level Innovation Program

Symbolic Music Generation Model Based On Reinforcement Learning and GAN — *Chengdu, P.R.China*

Team Leader, Microsoft Student Project, Under the supervision of Chao Chen, STCA — *Dec. 2017 - Feb. 2018*

- Transformed the reinforcement learning model SeqGAN to the field of music generation. Used Nottingham Dataset, and fine-tuned key parameters.
- Results are used in my independent game program in Imagine Cup 2018, which won 3rd prize in the final of the Sichuan regional competition
- Outstanding Prize, 2018 Microsoft Student Practice Space

Scholarships & Awards

2018 **Mitacs Globalink Graduate Fellowship,** CAD 15,000 — *Applied in Jan. 2019*

2017 **Renmin Scholarship 2017 & 2016,** Chengdu, P.R.China — *2017 & 2016*

Extracurricular Activity

Microsoft Student Club in UESTC — *Chengdu, P.R. China*

President Since 2017 — *Sept. 2017 - Jun. 2018*