Yingying Zhuang

+86-15652315788| Zhuangyingying@bupt.edu.cn | https://duangyying.github.io./

Education Background

Beijing University of Posts and Telecommunications **9/2016 - 9/2020(expected)**

Junior Student of E-Commerce Engineering

- **GPA:** 86.53/100
- **Relevant Coursework:** Engineering Mathematics (95), C Programming Basis (93), Java Programming(92),
- Probability Theory and Mathematical statistics(96),Discrete Techniques for Computing(92),Data Structures
- **GRE：** 151（V）+169(Q)+3.0 (AW)

Queen Mary University of London **9/2016 - 9/2020(expected)**

Bachelor of Science (Engineering) with Honors; School of EECS London

- Joint Programme with Bejing University of Posts and Telecommunications (BUPT)

Publication

Jie Zheng, **Yingying Zhuang**, Yuezhang Zheng, Andi Xia, ***Music Genre Classification with Self-attention Mechanism***, 2019 International Computer Music Conference and New York City Electroacoustic Music Festival (ICMC-NYCEMF 2019). （submitted）

Research Experience

Visual Dialog Based on Neural Networks **3/2019–Present**

Beihang University Intelligent Computing and Machine Learning Lab

- Applied neural networks to deal with a visual dialog task in order to increase the accuracy of predicted answer options; Aimed to enhance the Multimodal Machine Learning association representation；
- Combined Glove and Elmo for better word representation；
- Used CNN with attention mechanism for image processing and Bi-LSTM for question processing as well as the content of history conversations.

Small-footprint Keyword Spotting on Microcontrollers **11/2018 – 3/2019**

Tsinghua University iVip Research Group

- Performed neural network architecture evaluation and exploration for running Key Word Spotting on resource-constrained microcontrollers for reducing energy consumption;
- Trained a new KWS model based on GRU；
- Designed a quantification model applying ADMM algorithm to compress space；
- Optimized neural network architecture with hardware resulting efficiently on memory and compute constrained microcontrollers;

Music Genre Classification with Self-attention Mechanism **7/2018 – 11/2018**

Beijing University of Posts and Telecommunications

- Applied deep learning to Music Genre Classification tasks;
- Designed a transformer classifier to classify music genre instead of traditional RNN model;
- Used hierarchical topology consistently with the layering of music in the time and frequency domains.

Honors And Awards

- Honorable Mention of Mathematical Contest In Modeling **2018**
- Second Class Scholarship, BUPT **2018**
- First Class Scholarship, BUPT **2017**
- Merit Student (twice), BUPT **2017 &2018**

Others

- **Computer Skills:** Mastered Java, C, Python, MATLAB.
- **Machine Learning Platforms**: Pytorch, Tensorflow