Yingzhuo Qian

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ACADEMIC

- Senior in Tsinghua University(THU)
- School of Software *(Sept, 2017 - Jun, 2018)*; Department of Computer Science and Technology *(Jul, 2018 - Present)*
- Major: Computer Science and Technology
- GPA: 3.64/4.0, Ranking: 75/225
- Fields of interest: Natural Language Processing
- Grades of some core courses:
  - Introduction to Machine Learning(98), Data Structures(92), Java Program Design and Training(100), Assembly Language Programming(98), Probability and Statistics(92), Discrete Mathematics(92)

RESEARCH EXPERIENCE

- Work and learn in **THUNLP** research group. Co-advised by **Zhiyuan Liu** and **Chenyan Xiong**. *(Mar, 2019 - Present)*
  - Involved in discussion over the improvement of **EDRM** model and participated in its implementation.
  - Worked on external incorporated conversation generation.
  - Currently working on contrastive query generation for few-shot IR.

PROJECTS

- **External knowledge incorporated conversation generation** *(Apr 2020 - Aug, 2020)*
  - advisor: **Chenyan Xiong**
  - incorporated external knowledge in a seq2seq generation framework
  - adopted a graph decoder to search for paths that imitates concepts shift in dialog
  - github: https://github.com/qyz-thu/ConceptFlow
- **Bert-EDRM for Passage Reranking** *(Nov, 2019 - Dec, 2019)*
  - advisor: **Zhiyuan Liu**, collaborated with **Zhenghao Liu**, **Yibo Shen**
  - incorporated Bert to provide context-based word embedding in EDRM
  - incorporated GAT to obtain augmented embedding of Wikipedia entities
  - github: https://github.com/qyz-thu/Passage-Ranking
- **A simple neural network for sentiment analysis** *(Apr, 2019)*
  - advisor: **Shaoping Ma**
  - implemented LSTM and text-CNN respectively and compared the performance
  - github: https://github.com/qyz-thu/SentimentAnalysis
- **A python implementation of word2vec** *(Mar, 2019)*
  - advisor: **Zhiyuan Liu**
  - implemented without deep learning framework
  - github: https://github.com/qyz-thu/Word2Vec
- For more, please visit https://github.com/qyz-thu.

SKILLS

- Programming Languages: **C**, **C++**, **Python**, **Java** and **Javascript**.
- Tools: **Git**, LaTeX, **Markdown**, **Microsoft Office** and **MATLAB**.
- Familiarity with deep learning framework **PyTorch**.
- Capability of programming on remote server in Linux.
- Proficiency in Chinese, English and Japanese. **TOEFL**: 109(R30, L28, S24, W27); **GRE**: 330(V160, Q170) + 4

ACTIVITIES

- Embarked on an exchange program in St Louis, Missouri. *(Feb, 2016)*
- Serve in Student Union of Department of Computer Science and Technology. *(Jul, 2018 - Present)*