Qi Zeng

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Education

2019 - Present **University of Illinois Urbana-Champaign**, Illinois, USA
Ph.D. in Computer Science, Advisor: Prof. Heng Ji

2013 - 2018 **Peking University**, Beijing, China
B.S. in Information Science, Advisor: Prof. Xu Sun

Research Interest

My research interests lie in the general area of Natural Language Processing, especially in event representation and knowledge-aware text generation.

Research Experience

Sept. 2019 - Present **Blender Lab, University of Illinois Urbana-Champaign**, Illinois, USA
Graduate Research Assistant, Advisor: Prof. Heng Ji
Work on multi-media event extraction and structual event representation.

Oct. 2017 - June 2018 **Institute of Computational Linguistics, Peking University**, Beijing, China
Undergraduate Research Assistant, Advisor: Prof. Xu Sun
Work on neural text generation tasks. Some selected work:

- Proposed a cycled reinforcement learning method for unpaired sentiment translation, which preserves semantics by explicitly separating sentiment from semantic content. [ACL 2018]
- Constructed a clarification dataset for KBQA and implemented representative neural networks for three designed tasks: clarification identification, clarification question generation and clarification-based question answering. [EMNLP 2019a]

Internship

April 2019 - Aug. 2019 **ByteDance AI Lab**, Shanghai, China
Research Intern at MLNLP Group, Mentor: Dr. Hao Zhou (Researcher)
Work on search query generation and rare word representation.

- Proposed a finite stated automata restricted decoder for search query generation, which constrains the generation target space and has significantly improve generation diversity.

Jan. 2018 - June 2018 **Microsoft Research Asia**, Beijing, China
Research Intern at Software Analytics Group, Mentor: Dr. Wenhao Huang (Researcher)
Work on insight ranking and personalized dialog system.

- Formulated the problem of text assisted insight mining from tables, and proposed a Text-Assisted Insight Ranking network to model the importance of insights. [AAAI 2019a]
- Proposed a Memory Network to model user personality, which encodes user profiles into distributed embeddings and learns user preference over knowledge base entities. [AAAI 2019b]

March 2017 - Dec. 2017 **Microsoft Search Technology Center Asia**, Beijing, China
Software Developer Intern at Xiaoice Group, Mentor: Peng Chen (Principle Software Engineer)
Worked on QA system and product review generation.

- Implemented a retrieval-based travel-domain question answering system for chitchat bot Xiaoice.
- Proposed a Table-to-Text generation model for product review generation task, which incorporates field information into table representation.

Skills

Programming	Python, C++/C
DL Library	Pytorch

Publications

* indicates equal contribution. [Google Scholar Profile].

EMNLP 2019	Asking Clarification Questions in Knowledge-Based Question Answering. Jingjing Xu, Yuechen Wang, Duyu Tang, Nan Duan, Pengcheng Yang, **Qi Zeng**, Ming Zhou, Xu Sun.
EMNLP 2019	LexicalAT: Lexical-Based Adversarial Reinforcement Training for Robust Sentiment Classification. Jingjing Xu, Liang Zhao, Hanqi Yan, **Qi Zeng**, Yun Liang, Xu Sun
NAACL 2019	Review-Driven Multi-Label Music Style Classification by Exploiting Style Correlations Jingjing Xu*, Guangxiang Zhao*, **Qi Zeng**, Xuancheng Ren, Xu Sun.
AAAI 2019	Text Assisted Insight Ranking Using Context-Aware Memory Network. **Qi Zeng***, Liangchen Luo*, Wenhao Huang, Yang Tang.
AAAI 2019	Learning Personalized End-to-End Goal-Oriented Dialog. Liangchen Luo, Wenhao Huang, **Qi Zeng**, Xu Sun, Zaiqing Nie.
EMNLP 2018	A Skeleton-Based Model for Promoting Coherence in Narrative Story Generation. Jingjing Xu, Xuancheng Ren, Yi Zhang, **Qi Zeng**, Xiaoyan Cai, Xu Sun.
EMNLP 2018	An Auto-Encoder Matching Model for Learning Utterance-Level Semantic Dependency in Dialogue Generation. (Short Paper). Jingjing Xu*, Liangchen Luo*, Junyang Lin, **Qi Zeng**, Xu Sun.
ACL 2018	Unpaired Sentiment-to-Sentiment Translation Using Cycled Reinforcement Learning. Jingjing Xu, Xu Sun, **Qi Zeng**, Xuancheng Ren, Xiaodong Zhang, Houfeng Wang, Wenjie Li.