Wei Yang

Contact Information	victor950118@gmail.com, w85yang@uwaterloo.ca Homepage, Github, Linkedin, Google Scholar

Education

University of Waterloo, Waterloo, ON

M.Math., Computer Science	Sep 2017 to Apr 2019

- Thesis: End-to-End Neural Information Retrieval
- Thesis Supervisor: Jimmy Lin

Zhejiang University, Hangzhou, China

B.S., Computer Science and Technology	Sep 2013 to Jun 2017

- Thesis: Cross Domain Word Embedding
- GPA: 3.87 / 4.0 (198.5 credits)
- Thesis Supervisor: Lu Wei and Siliang Tang

Research Experience

Research Assistant	Sep 2017 to Apr 2019
Data System Group, University of Waterloo, supervised by Jimmy Lin	
Research Assistant	Oct 2016 to Feb 2017
Singapore University of Technology and Design, supervised by Lu Wei	
Research Assistant	Jun 2016 to Sep 2016
The Hong Kong Polytechnic University, supervised by Ajay Kumar (IEEE Fellow)	

Industry Experience

Machine Learning Engineer	May 2018 to April 2019
RSVP.ai, Waterloo, ON, Canada	
Machine Learning Engineer	Sep 2018 to Oct 2018
Big Data Group, JD.com, Beijing, China	
Software Engineer	Feb 2017 to Jun 2017
Big Data Group, DiDi Research, Hangzhou, China	
Software Engineer	June 2016 to Oct 2016
Pangu Studio, Netease Game, Hangzhou, China	

Exchange Experience

Exchange Student	Sep 2016 to Dec 2016
GPA: 4.0 / 4.0 in Singapore University of Technology and Design	

Awards

- Top-one submission in the MS-MARCO Passage Retrieval task — 2019
- International Student Scholarship, University of Waterloo — 2018
- Graduate with Honors, Zhejiang University & Zhejiang Province — 2017
- Champion, Zhejiang University Programming Contest, ACM-ICPC — 2016

Talks

- Detecting Customer Complaint Escalation in Dialogue, NAACL — June 2019
- End-to-End Goal-Oriented QA System for Chatbot, RSVP.ai — Mar 2019
- An Anatomy of BERT Model and Its Applications, RSVP.ai — Oct 2018
- Text Matching Models and Their Applications, RSVP.ai — Jul 2018
- Neural Information Retrieval and Text Matching, University of Waterloo — Mar 2018
- Corss-domain Word Embedding, EMNLP — Sep 2017

REFERRED PAPERS
1. **Wei Yang** "End-to-End Neural Information Retrieval." [**Paper**] [**Slide**]

2. Zeynep Akkalyoncu Yilmaz, Shengjin Wang, **Wei Yang**, Haotian Zhang and Jimmy Lin "Applying BERT to Document Retrieval with Birch." *EMNLP*, 2019.

3. Jinfeng Rao, Linqing Liu, Yi Tay, **Wei Yang**, Peng Shi, Jimmy Lin "Bridging the Gap of Relevance Matching and Semantic Matching with Hierarchical Co-Attention Network." *EMNLP*, 2019.

4. Linqing Liu, **Wei Yang**, Jinfeng Rao, Raphael Tang, and Jimmy Lin "Incorporating Compositional and Syntactic Structures Improves Semantic Similarity Modeling." *EMNLP*, 2019.

5. Zeynep Akkalyoncu, **Wei Yang**, Haotian Zhang, and Jimmy Lin "Cross-Domain Modeling of Sentence-Level Evidence for Document Retrieval." *EMNLP*, 2019. [**Code**]

6. Rodrigo Nogueira, **Wei Yang**, Jimmy Lin, and Kyunghyun Cho "Document Expansion by Query Prediction." [**Paper**] [**Code**]

7. **Wei Yang***, Yuqing Xie*, Luchen Tan, Kun Xiong, Ming Li, and Jimmy Lin "Data Augmentation for BERT Fine-Tuning in Open-Domain Question Answering"

8. **Wei Yang***, Haotian Zhang*, and Jimmy Lin "Simple Applications of BERT for Ad Hoc Document Retrieval." (* equal contribution) [**Paper**] [**Code**]

9. Peng Shi, Ji Xin, **Wei Yang**, Jinfeng Rao and Jimmy Lin "Distantly-Supervised Pretraining for Named Entity Recognition."

10. **Wei Yang**, Kuang Lu, Peilin Yang, Jimmy Lin "Critically Examining the "Neural Hype": Weak Baselines and the Additivity of Effectiveness Gains from Neural Ranking Models." *SIGIR*, 2019. (**Best Short Paper Honorable Mention**) [**Paper**] [**Code**]

11. **Wei Yang***, Yuqing Xie*, Aileen Lin, Xingyu li, Luchen Tan, Kun Xiong, Ming Li, and Jimmy Lin "End-to-End Open-Domain Question Answering with BERTserini." (* equal contribution) *NAACL*, 2019. [**Paper**]

12. **Wei Yang**, Luchen Tan, Anqi Cui, Han Li, Xi Chen, Chunwei Lu, Muzi Wang, and Jimmy Lin "Detecting Customer Complaint Escalation with Recurrent Neural Networks and Manually-Engineered Features." *NAACL*, 2019. [**Paper**]

13. **Wei Yang**, Junnan Chen, Rui Qiao, Haocheng Qin, Ming Li, and Jimmy Lin "End-to-End Neural Context Reconstruction in Chinese Dialogue." *ACL workshop* (NLP for Conversational AI), 2019. [**Paper**]

14. **Wei Yang** "Pairwise Loss with Max Sampling: A Neural Meta-Architecture for Answer Selection." [**Code**]

15. Jinfeng Rao, **Wei Yang**, Yuhao Zhang, Ferhan Ture, and Jimmy Lin "Multi-Perspective Relevance Matching with Hierarchical ConvNets for Social Media Search." *AAAI*, 2019. [**Paper**] [**Code**]

16. **Wei Yang**, Wei Lu, Vincent W. Zheng "A Simple Regularization-based Algorithm for Learning Cross-Domain Word Embeddings." *EMNLP*, 2017. [**Paper**] [**Code**]

17. Tingting Liang, Liang Chen, Zhining Xie, **Wei Yang**, Jian Wu "CASE: A Platform for Crowdsourcing Based API Search." *ICSOC*, 2015. [**Paper**]

SERVICE
Sub-reviewer, AAAI 2018, NAACL 2019, SIGIR 2019, CIKM 2019
Reviewer/PC member, EMNLP 2019, AAAI 2020