Wei (Victor) Yang

CONTACT INFORMATION	victor950118@gmail.com, w85yang@uwaterloo.ca Homepage, Github, Linkedin, Google Scholar

EDUCATION

University of Waterloo, Waterloo, ON, Canada

M.Math., Computer Science   Sep 2017 to Apr 2019
- Thesis: End-to-End Neural Information Retrieval
- Thesis Supervisor: Jimmy Lin

Singapore University of Technology and Design, Singapore

Exchange Student   Sep 2016 to Dec 2016
- GPA: 4.0 / 4.0 in two courses (Machine Learning, Optimization)

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

INDUSTRY EXPERIENCE

Research Engineer II Borealis.ai, Toronto, ON, Canada	Dec 2019 to -
Machine Learning Engineer RSVP.ai, Waterloo, ON, Canada	May 2018 to Aug 2019
Software Engineer Intern Big Data Group, DiDi Research, Hangzhou, China	Feb 2017 to Jun 2017
Software Engineer Intern Pangu Studio, Netease Game, Hangzhou, China	June 2016 to Oct 2016

ACADEMIC EXPERIENCE

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

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

OPEN SOURCE CONTRIBUTION

Castor • Anserini • NCRFpp • Birch • MatchZoo • BERT-Fine_tune • Capreolus

REFERRED PAPERS

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

2. Andrew Yates, Siddhant Arora, Xinyu Zhang, **Wei Yang**, Kevin Martin Jose and Jimmy Lin "Capreolus: A Toolkit for End-to-End Neural Ad Hoc Retrieval." *WSDM*, 2020.

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

4. 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. [**Paper**] [**Code**]

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

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

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

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

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

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, ACL 2020