Wei (Victor) Yang

Contact victor950118@gmail.com, w85yang@uwaterloo.ca Information Homepage, Github, Linkedin, Google Scholar Dec 2019 to -Industry Research Engineer II EXPERIENCE Borealis.ai, Toronto, ON, Canada Machine Learning Engineer May 2018 to Aug 2019 RSVP.ai, Waterloo, ON, Canada Software Engineer Intern Feb 2017 to Jun 2017 Big Data Group, DiDi Research, Hangzhou, China Software Engineer Intern June 2016 to Oct 2016 Pangu Studio, Netease Game, Hangzhou, China EDUCATION University of Waterloo, Waterloo, ON, Canada M.Math., Computer Science Sep 2017 to Apr 2019 • Thesis: End-to-End Neural Information Retrieval [Paper] [Slide] • 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 Sep 2013 to Jun 2017 B.S., Computer Science and Technology • Thesis: Cross Domain Word Embedding • GPA: 3.87 / 4.0 (198.5 credits) • Thesis Supervisor: Lu Wei and Siliang Tang ACADEMIC Research Assistant Sep 2017 to Apr 2019 EXPERIENCE 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) AWARDS 2019

Top-one submission in the MS-MARCO Passage Retrieval task
International Student Scholarship, University of Waterloo
Graduate with Honors, Zhejiang University & Zhejiang Province

OPEN SOURCE CONTRIBUTION

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

Referred Papers

- 1. Zhengkai Tu*, **Wei Yang***, Zihang Fu, Yuqing Xie, Luchen Tan, Kun Xiong, Ming Li and Jimmy Lin "Approximate Nearest Neighbor Search and Lightweight Dense Vector Reranking in Multi-Stage Retrieval Architectures" *ICTIR*, 2020. (* equal contribution)
- 2. Rodrigo Nogueira, **Wei Yang**, Kyunghyun Cho, Jimmy Lin "Multi-stage document ranking with BERT" [**Paper**] [**Code**]

- 3. Wei Yang*, Yuqing Xie*, Luchen Tan, Kun Xiong, Ming Li, and Jimmy Lin "Data Augmentation for BERT Fine-Tuning in Open-Domain Question Answering" (* equal contribution) WWW, 2020.
- 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 demo, 2020. [Code]
- 5. Zeynep Akkalyoncu Yilmaz, Shengjin Wang, **Wei Yang**, Haotian Zhang and Jimmy Lin "Applying BERT to Document Retrieval with Birch." *EMNLP*, 2019.
- 6. 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]
- Linqing Liu, Wei Yang, Jinfeng Rao, Raphael Tang, and Jimmy Lin "Incorporating Compositional and Syntactic Structures Improves Semantic Similarity Modeling." EMNLP, 2019. [Paper] [Code]
- 8. Zeynep Akkalyoncu, **Wei Yang**, Haotian Zhang, and Jimmy Lin "Cross-Domain Modeling of Sentence-Level Evidence for Document Retrieval." *EMNLP*, 2019. [Paper] [Code]
- 9. Rodrigo Nogueira, **Wei Yang**, Jimmy Lin, and Kyunghyun Cho "Document Expansion by Query Prediction." [Paper] [Code]
- 10. Wei Yang*, Haotian Zhang*, and Jimmy Lin "Simple Applications of BERT for Ad Hoc Document Retrieval." (* equal contribution) [Paper] [Code]
- 11. 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]
- 12. **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**]
- 13. **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]
- 14. **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**]
- 15. Wei Yang "Pairwise Loss with Max Sampling: A Neural Meta-Architecture for Answer Selection." [Code]
- 16. 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**]
- 17. **Wei Yang**, Wei Lu, Vincent W. Zheng "A Simple Regularization-based Algorithm for Learning Cross-Domain Word Embeddings." *EMNLP*, 2017. [Paper] [Code]

Sub-reviewer: ACL 2020, NAACL 2019, SIGIR 2019, CIKM 2019, AAAI 2018 Reviewer: AACL 2020, EMNLP(2020, 2019), COLING 2020, AAAI(2021, 2020)

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