

## Wei (Victor) Yang

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INDUSTRY EXPERIENCE	<b>Research Engineer II</b> Borealis.ai, Toronto, ON, Canada <b>Machine Learning Engineer</b> RSVP.ai, Waterloo, ON, Canada <b>Software Engineer Intern</b> Big Data Group, DiDi Research, Hangzhou, China <b>Software Engineer Intern</b> Pangu Studio, Netease Game, Hangzhou, China	Dec 2019 to - May 2018 to Aug 2019 Feb 2017 to Jun 2017 June 2016 to Oct 2016
EDUCATION	<b>University of Waterloo</b> , Waterloo, ON, Canada M.Math., Computer Science (GPA: 86.8 / 100) <ul style="list-style-type: none"><li>• Thesis: <a href="#">End-to-End Neural Information Retrieval [Paper]</a> <a href="#">[Slide]</a></li><li>• Thesis Supervisor: Jimmy Lin</li></ul> <b>Singapore University of Technology and Design</b> , Singapore Exchange Student (GPA: 4.0 / 4.0 ) <b>Zhejiang University</b> , Hangzhou, China B.S., Computer Science and Technology (GPA: 3.87 / 4.0) <ul style="list-style-type: none"><li>• Thesis: Cross Domain Word Embedding</li><li>• Thesis Supervisor: <a href="#">Lu Wei</a> and <a href="#">Siliang Tang</a></li><li>• Minor: Advanced Honors Class of Engineering Education (ACEE), Chu Kochen Honors College, Zhejiang University</li></ul>	Sep 2017 to Apr 2019 Sep 2016 to Dec 2016 Sep 2013 to Jun 2017
ACADEMIC EXPERIENCE	<b>Research Assistant</b> Data System Group, University of Waterloo, supervised by <a href="#">Jimmy Lin</a> Research Areas: Neural Information Retrieval, Open-domain Question Answering <b>Research Assistant</b> Singapore University of Technology and Design, supervised by <a href="#">Lu Wei</a> Research Areas: Cross-domain Word Embedding <b>Research Assistant</b> The Hong Kong Polytechnic University, supervised by <a href="#">Ajay Kumar</a> ( <a href="#">IEEE Fellow</a> ) Research Areas: Neural Palmprint Recognition	Sep 2017 to Apr 2019 Oct 2016 to Feb 2017 Jun 2016 to Sep 2016
AWARDS	<ul style="list-style-type: none"><li>• Rank 1st in the MS-MARCO Passage Retrieval task</li><li>• International Student Scholarship, University of Waterloo</li><li>• Student Researcher Scholarship, EMNLP</li><li>• Graduate with Honors, Zhejiang University &amp; Zhejiang Province</li><li>• Champion, Zhejiang University Programming Contest, ACM-ICPC</li></ul>	2019 2018 2017 2017 2016
OPEN SOURCE CONTRIBUTION	<a href="#">Castor</a> • <a href="#">Anserini</a> • <a href="#">NCRFpp</a> • <a href="#">Birch</a> • <a href="#">MatchZoo</a> • <a href="#">BERT-Fine_tune</a> • <a href="#">Capreolus</a>	
SERVICE	Sub-reviewer: ACL 2020, NAACL 2019, SIGIR 2019, CIKM 2019, AAAI 2018 Reviewer: AACL 2020, EMNLP(2020, 2019), COLING 2020, AAAI(2021, 2020), IJCAI 2021	

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) [[Paper](#)]
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 “Distant Supervision for Multi-Stage Fine-Tuning in Retrieval-Based Question Answering” (\* equal contribution) *WWW*, 2020. [[Paper](#)]
4. 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. [[Paper](#)] [[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](#)]
7. 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](#)] [[Code](#)]
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. 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](#)]