

## Wei Yang

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CONTACT INFORMATION	victor950118@gmail.com, w85yang@uwaterloo.ca Homepage, Github, Linkedin, Google Scholar	
EDUCATION	<b>University of Waterloo</b> , Waterloo, ON	
	M.Math., Computer Science	Sep 2017 to Apr 2019
	<ul style="list-style-type: none"><li>• Thesis: End-to-End Neural Information Retrieval</li><li>• Thesis Supervisor: Jimmy Lin</li></ul>	
	<b>Zhejiang University</b> , Hangzhou, China	
	B.S., Computer Science and Technology	Sep 2013 to Jun 2017
	<ul style="list-style-type: none"><li>• Thesis: Cross Domain Word Embedding</li><li>• GPA: 3.87 / 4.0 ( 198.5 credits )</li><li>• Thesis Supervisor: Lu Wei and Siliang Tang</li></ul>	
RESEARCH EXPERIENCE	<b>Research Assistant</b>	Sep 2017 to Apr 2019
	Data System Group, University of Waterloo, supervised by Jimmy Lin	
	<b>Research Assistant</b>	Oct 2016 to Feb 2017
	Singapore University of Technology and Design, supervised by Lu Wei	
	<b>Research Assistant</b>	Jun 2016 to Sep 2016
	The Hong Kong Polytechnic University, supervised by Ajay Kumar (IEEE Fellow)	
INDUSTRY EXPERIENCE	<b>Machine Learning Engineer</b>	May 2018 to April 2019
	RSVP.ai, Waterloo, ON, Canada	
	<b>Machine Learning Engineer</b>	Sep 2018 to Oct 2018
	Big Data Group, JD.com, Beijing, China	
	<b>Software Engineer</b>	Feb 2017 to Jun 2017
	Big Data Group, DiDi Research, Hangzhou, China	
	<b>Software Engineer</b>	June 2016 to Oct 2016
	Pangu Studio, Netease Game, Hangzhou, China	
EXCHANGE EXPERIENCE	<b>Exchange Student</b>	Sep 2016 to Dec 2016
	GPA: 4.0 / 4.0 in Singapore University of Technology and Design	
AWARDS	<ul style="list-style-type: none"><li>• Top-one submission in the MS-MARCO Passage Retrieval task 2019</li><li>• International Student Scholarship, University of Waterloo 2018</li><li>• Graduate with Honors, Zhejiang University &amp; Zhejiang Province 2017</li><li>• Champion, Zhejiang University Programming Contest, ACM-ICPC 2016</li></ul>	
TALKS	<ul style="list-style-type: none"><li>• Detecting Customer Complaint Escalation in Dialogue, NAACL June 2019</li><li>• End-to-End Goal-Oriented QA System for Chatbot, RSVP.ai Mar 2019</li><li>• An Anatomy of BERT Model and Its Applications, RSVP.ai Oct 2018</li><li>• Text Matching Models and Their Applications, RSVP.ai Jul 2018</li><li>• Neural Information Retrieval and Text Matching, University of Waterloo Mar 2018</li><li>• Corss-domain Word Embedding, EMNLP Sep 2017</li></ul>	
OPEN SOURCE CONTRIBUTION	Castor • Anserini • NCRFpp • Birch • MatchZoo • BERT-Fine_tune	

# 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.
5. Linqing Liu, **Wei Yang**, Jinfeng Rao, Raphael Tang, and Jimmy Lin “Incorporating Compositional and Syntactic Structures Improves Semantic Similarity Modeling.” *EMNLP*, 2019.
6. Zeynep Akkalyoncu, **Wei Yang**, Haotian Zhang, and Jimmy Lin “Cross-Domain Modeling of Sentence-Level Evidence for Document Retrieval.” *EMNLP*, 2019. [\[Code\]](#)
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