Yao Wan

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STATEMENT

I am currently a fifth-year Ph.D student from the Advanced Computing and System Laboratory (CCNT), College of Computer Science and Technology at Zhejiang University, Hangzhou, China. My supervisor is Prof. Jian Wu. I obtained my B.Eng. degree in Software Engineering from Northeastern University, Shenyang, China, then I entered Zhejiang University to pursue my Ph.D degree without examination. My current research interests are mainly focusing on natural language processing and program language analysis with some advanced techniques such as deep reinforcement learning and generative adversarial learning.

RESEARCH KEYWORDS

Big data, natural language processing, source code analysis, dialog generation, multi-modal/ multi-view/multi-task learning, deep learning, reinforcement learning.

EDUCATION

Zhejiang University, Hangzhou, China

Ph.D., Computer Science, *Expected:* Summer, 2019

- Thesis Topic: *Deep Reinforcement Learning based Text Generation with Applications*
- Advisor: Jian Wu, Ph.D

Northeastern University, Shenyang, China

B.S., Software Engineering, July 2014

RESEARCH EXPERIENCE

Student Intern (supported by CSC funding)   Jan. 2018 to Jan. 2019
- Department of Computer Science, University of Illinois at Chicago
- Supervisor: Philip S. Yu, Ph.D

Student Intern   Jul. 2016 to Jan. 2017
- School of Software & Advanced Analytics Institute,
University of Technology, Sydney
- Supervisor: Guandong Xu, Ph.D

Student Intern   Mar. 2014 to Sep. 2014
- Shenzhen Research Institute, The Chinese University of Hong Kong
- Supervisor: Zibin Zheng, Ph.D

REFEREED JOURNAL PUBLICATIONS

1. **Yao Wan**, Liang Chen, Guandong Xu, Zhou Zhao, Jie Tang, and Jian Wu. "SCSMiner: mining social coding sites for software developer recommendation with relevance propagation." World Wide Web (2018): 1-21. [**CCF B**, **SCI** Impact Factor=1.405]

2. **Yao Wan**, Guandong Xu, Liang Chen, Zhou Zhao, Jian Wu, "Exploiting Cross-source Knowledge for Warming up Community Question Answering Services", Neurocomputing, 2018. [**CCF C**, **SCI** Impact Factor=3.241]

REFEREED CONFERENCE PUBLICATIONS

1. Yue Wang, **Yao Wan**, Chenwei Zhang, Lu Bai, Lixin Cui, and Philip S. Yu, "Competitive Multi-Agent Deep Reinforcement Learning with Counterfactual Thinking", the 19th International Conference on Data Mining, November 8–11, 2019, Beijing, China. [**CCF B**, short paper, accepted rate=194/1046=18.5%]

2. **Yao Wan***, Jingdong Shu*, Yulei Sui, Guandong Xu, Zhou Zhao, Jian Wu, and Philip S. Yu, "Multi-Modal Attention Network Learning for Semantic Source Code Retrieval", the 34th ACM/IEEE International Conference on Automated Software Engineering, November 11–15, 2019, San Diego, United States. ACM, New York, NY, USA. [**CCF A**, accepted rate=x/xx=xx%]

3. Tingting Liang, Lei Zheng, Liang Chen, **Yao Wan**, Philip S. Yu, Jian Wu "Multi-View Factorization Machines for Mobile App Recommendation based on Hierarchical Attention", Knowledge-Based Systems , 2019. [**CCF C**, SCI Impact Factor=5.101]

4. Jian-Guo Zhang, Pengcheng Zou, Zhao Li, **Yao Wan**, Xiuming Pan, Yu Gong, Philip S. Yu "Multi-Modal Generative Adversarial Network for Short Product Title Generation in Mobile E-Commerce", The 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, June 2-7, 2019, Minneapolis, USA. [**CCF C**]

5. **Yao Wan**, Zhou Zhao, Min Yang, Guandong Xu, Haochao Ying, Jian Wu and Philip S. Yu. "Improving Automatic Source Code Summarization via Deep Reinforcement Learning." In IEEE/ACM International Conference on Automated Software Engineering, pp. 499-510. Springer, Montpellier, 2018. [**CCF A**, accepted rate=69/346=19.9%]

6. **Yao Wan***, Wenqiang Yan*, Jianwei Gao, Zhou Zhao, Jian Wu, and Philip S. Yu, "Improved Dynamic Memory Network for Dialogue Act Classification with Adversarial Training", 2018 IEEE International Conference on BigData, December 10–13, 2018, Seattle, WA, USA. [**CCF C**, accepted rate=98/518=18.9%]

7. Jian-Guo Zhang, Pengcheng Zou, Zhao Li, **Yao Wan**, Ye Liu, Xiuming Pan, Yu Gong, Philip S. Yu "Product Title Refinement via Multi-Modal Generative Adversarial Learning", NeurIPS workshop on Visually Grounded Interaction and Language, December 7th, 2018, Montreal, Canada.

8. Yuqiang Han, **Yao Wan**, Liang Chen, Guandong Xu, and Jian Wu. "Exploiting Geographical Location for Team Formation in Social Coding Sites." In Pacific-Asia Conference on Knowledge Discovery and Data Mining, pp. 499-510. Springer, Cham, 2017. [**CCF C**, accepted rate=45/458=9.8%]

9. **Yao Wan**, Liang Chen, Qi Yu, Tingting Liang, Jian Wu. "Incorporating Heterogeneous Information for Mashup Discovery with Consistent Regularization", The 20th Pacific Asia Conference on Knowledge Discovery and Data Mining, Auckland, New Zealand, 2016. [**CCF C**, accepted rate=17.3%]

10. **Yao Wan**, Liang Chen, Jian Wu and Qi Yu, "Time-aware API Popularity Prediction via Heterogeneous Features", The 22nd International Conference on Web Services, Application Track, New York, USA, 2015. [accepted rate=21.9%]

AWARDS	Student Awards — Zhejiang University	
	• Scholarship from China Scholarship Council (CSC)	Jan. 2018-Jan.2019
	• IEEE BigData Student Travel Award	Dec. 2018
	• Outstanding Student	2014 - 2018
	• Outstanding Student of CCNT Lab	Jan. 2015
	Student Awards — Northeastern University	
	• MCM Honorable Mention	Mar. 2012
	• National Motivational Scholarships	2010 - 2012

SKILLS	**Programming Language**: Python, Java, C++, PHP, SQL, HTML, CSS, Javascript. **Framework**: PyTorch, Torch, Tensorflow, Scrapy, Django. **Language**: Mandarin (mother tongue), English (CET6, good reading and writing). **Others**: Vi/Vim, Git, Mysql, LaTeXand Office.
SERVICES	- [**Journal Reviewer**] World Wide Web Journal (WWWJ2016, WWWJ2017) - [**Volunteer**] IEEE BigData 2018
INTERESTS	Basketball, calligraphy and photography.

REFERENCES

Jian Wu
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Zhejiang University   E-mail: wujian2000@zju.edu.cn

Guandong Xu
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University of Technology, Sydney   E-mail: guandong.xu@uts.edu.au

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University of Illinois at Chicago   E-mail: psyu@uic.edu