

Bowen Xu

Ph.D Candidate
School of Information System
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Research Interests

Software Analytics, Automated Program Repair

Education

- 2017-Present** **Ph.D Candidate** in School of Information System, Singapore Management University, Singapore
Supervised by Prof. David Lo
- 2014-2017** **Master Degree** in School of Software Technology, Zhejiang University, China
Supervised by Prof. Shanping Li and Prof. Xin Xia
- 2010-2014** **Bachelor Degree** in College of Computer Science and Technology, Hunan City University, China

Professional Service

- SCAM'19** **External Reviewer** for the 19th IEEE International Working Conference on Source Code Analysis and Manipulation.
- SWAN'16** **External Reviewer** for the 2nd International Workshop on Software Analytics.
- SATE'16** **External Reviewer** for the 2016 Annual Conference on Software Analysis, Testing and Evolution.

Working Experience

- May - July, 2017** **Research Associate** in Software Analytics Research Group, Singapore Management University, Singapore
Supervised by Prof. David Lo
- Feb - July, 2016** **Research Assistant** in Software Engineering Lab, Nanyang Technological University, Singapore
Supervised by Prof. Zhenchang Xing

Publications

- Conference Papers**
- PAKDD'19** [C8] Heng-Yi Li, Shu-Ting Shi, Ferdian Thung, Xuan Huo, **Bowen Xu**, Ming Li, and David Lo. "DeepReview: Automatic Code Review using Deep Multi-Instance Learning". *The 23rd Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2019)*.
(Acceptance Rate 137/567=24.1%)
- ESEM'18** [C7] **Bowen Xu**, Amirreza Shirani, David Lo and Mohammad Amin Alipour. "Prediction of Relatedness in Stack Overflow: Deep Learning vs. SVM - A Reproducibility Study". *12th International Symposium on Empirical Software Engineering and Measurement (ESEM 2018)*. **Highly Commended Full Paper Award**
(Acceptance Rate 30/140=21.4%)
- ASE'17** [C6] **Bowen Xu**, Zhenchang Xing, Xin Xia, David Lo. "AnswerBot - Automated Generation of Answer Summary to Developers' Technical Questions". *32nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2017)*.
(Acceptance Rate 65/314=20.7%)

- ASE'16** [C5] **Bowen Xu**, Deheng Ye, Zhenchang Xing, Xin Xia, Guibin Chen, Shanping Li. "Predicting Semantically Linkable Knowledge in Developer Online Forums via Convolutional Neural Network". *31st IEEE/ACM International Conference on Automated Software Engineering (ASE 2016)*. (Acceptance Rate 57/298=19.1%)
- ASE'16** [C4] Guibin Chen, Chunyang Chen, Zhenchang Xing, **Bowen Xu**. "Learning Dual-Language Vector Space for Domain-specific Cross-Lingual Question Retrieval". *31st IEEE/ACM International Conference on Automated Software Engineering (ASE 2016)*. (Acceptance Rate 57/298=19.1%)
- MSR'16** [C3] **Bowen Xu**, Zhenchang Xing, Xin Xia, David Lo, Qingye Wang, Shanping Li. "Domain-Specific Cross-Language Relevant Question Retrieval". *13th International Conference on Mining Software Repositories (MSR 2016)*. *Invited to Empirical Software Engineering Journal* (Acceptance Rate 36/103=35%)
- ICECCS'15** [C2] Yun Zhang, David Lo, Xin Xia, **Bowen Xu**, Jianling Sun, Shanping Li. "Combining Software Metrics and Text Features for Vulnerable File Prediction". *20th International Conference on Engineering of Complex Computer Systems (ICECCS 2015)*. (Acceptance Rate 17/71=23.9%)
- APSEC'15** [C1] **Bowen Xu**, David Lo, Xin Xia, Ashish Sureka, Shanping Li. "EFSPredictor: Predicting Configuration Bugs With Ensemble Feature Selection". *22th Asia-Pacific Software Engineering Conference (APSEC 2015)*. (Acceptance Rate 51/182=28.02%)
- Journal Papers**
- EMSE'17** [J1] **Bowen Xu**, Zhenchang Xing, Xin Xia, David Lo, Shanping Li. "Domain-Specific Cross-Language Relevant Question Retrieval". *Empirical Software Engineering (EMSE)*.
- Tool Demo Papers**
- ESEC/FSE'19** [T2] Liang Cai, Haoye Wang, **Bowen Xu**, Qiao Huang, Xin Xia, David Lo, Zhenchang Xing. "AnswerBot: An Answer Summary Generation Tool Based on Stack Overflow". *The 27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2019)*. (Tool Demo: <http://answerbot.cn>)
- ESEC/FSE'17** [T1] **Bowen Xu**, Zhenchang Xing, Xin Xia, David Lo. "XSearch: A DomainSpecific Cross-Language Relevant Question Retrieval Tool". *11th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering*. (Tool Demo: <http://67.230.191.128:8080/XSearch>)
- Workshop Papers**
- AAAI RCQA'19** [W1] Amirreza Shirani, **Bowen Xu**, David Lo, Tamar Solorio and Mohammad Amin Alipour. "Question Relatedness on Stack Overflow: The Task, Dataset, and Corpus-inspired Model". *AAAI 2019 Reasoning and Complex QA Workshop*.

Certifications, honors & awards

- 2019** Graduate Instructor Certification, Singapore Management University, Singapore
- 2019** English Communication Skills for PhD Candidates Certification, British Council, Singapore
- 2017** Excellent Graduate of Zhejiang Province, Ministry of Education of the People's Republic of Zhejiang Province (top3%), China,
- 2014** Scholarship of State Street (top5%), State Street Corp, U.S.A
- 2012** National Scholarship (top3%), Ministry of Education of the People's Republic of China, China