Bowen Xu

School of Computing and Information Systems Singapore Management University

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Education

2017-	Ph.D Candidate in School of Computing and Information Systems, Singapore Management Uni-		
Present	versity, Singapore		
	Supervised by Prof. David Lo (ACM Distinguished Member (Scientist))		
2014-	Master Degree in School of Software Technology, Zhejiang University, China		
2017	Supervised by Prof. Shanping Li and Prof. Xin Xia (Top 40 Young Researchers in Australia)		
2010-	Bachelor Degree in College of Computer Science and Technology, Hunan City University, China		
2014			

Working Experience

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

Research Interests

- ✓ Mining Software Repository
- ★ Empirical Software Engineering
- Program Comprehension and Analysis

Research Works

Google Scholar: https://tinyurl.com/7f0741af

 \Rightarrow Conference Papers

IC-[C9] √ Ting Zhang, Bowen Xu (Corresponding Author), Ferdian Thung, Stefanus Agus Haryono, **SME'20** David Lo, Lingxiao Jiang. "Sentiment Analysis for Software Engineering: How Far Can Pre-trained (CCF-B) Transformer Models Go?". 36th IEEE International Conference on Software Maintenance and Evolution (ICSME 2020). (Acceptance Rate 50/201=24.9%)

[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 PAKDD'19 (CCF-C) Conference on Knowledge Discovery and Data Mining (PAKDD 2019).

(Acceptance	Rate	137/567=24.1%)	
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ESEM'18 [C7] ✓ **Bowen Xu**, Amirreza Shirani, David Lo and Mohammad Amin Alipour. "Prediction of Re-

(CCF-B) latedness 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

(CCF-A) 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. "Predict-

(CCF-A) ing 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

(CCF-A) 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-

(CCF-C) 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%)

[C2] ✓ Yun Zhang, David Lo, Xin Xia, **Bowen Xu**, Jianling Sun, Shanping Li. "Combining Soft-

ICECCS'15 ware Metrics and Text Features for Vulnerable File Prediction". 20th International Conference on

(CCF-C) Engineering of Complex Computer Systems (ICECCS 2015). (Acceptance Rate 17/71=23.9%)

[C1] ✓ Bowen Xu, David Lo, Xin Xia, Ashish Sureka, Shanping Li. "EFSPredictor: Predicting

APSEC'15 Configuration Bugs With Ensemble Feature Selection". 22th Asia-Pacific Software Engineering

(CCF-C) Conference (APSEC 2015). (Acceptance Rate 51/182=28.02%)

\Rightarrow Journal Papers

TSE'20 [J3] ✓ **Bowen Xu**, HOANG Van Duc Thong, Abhishek SHARMA, Xin Xia, and David Lo. "Post2Vec:

(CCF-A) Learning Distributed Representations of Stack Overflow Posts". IEEE Transactions on Software Engineering (TSE).

EMSE'20 [J2] ★ ■ Bowen Xu, Le An, Ferdian Thung, Foutse Khomh, David Lo. "Why Reinventing the

(CCF-B) Wheels? An Empirical Study on Library Reuse and Re-implementation". Empirical Software Engineering (EMSE). *Presented during ICSE 2020 as part of the Journal First Paper Track*

EMSE'17 [J1]

Bowen Xu, Zhenchang Xing, Xin Xia, David Lo, Shanping Li. "Domain-Specific Cross-

(CCF-B) Language Relevant Question Retrieval". Empirical Software Engineering (EMSE).

⇒ Tool Demo Papers

[T2] ✓ Liang Cai, Haoye Wang, Bowen Xu, Qiao Huang, Xin Xia, David Lo, Zhenchang Xing.

ESEC/FSE'19 "AnswerBot: An Answer Summary Generation Tool Based on Stack Overflow". The 27th ACM

(CCF-A) Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2019).

[T1] ✓ Bowen Xu, Zhenchang Xing, Xin Xia, David Lo. "XSearch: A DomainSpecific Cross-

ESEC/FSE'17 Language Relevant Question Retrieval Tool". 11th joint meeting of the European Software Engi-

(CCF-A) neering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering.

⇒ Workshop Paper

AAAI'19 [W1] ✓ ★ Amirreza Shirani, **Bowen Xu**, David Lo, Thamar Solorio and Mohammad Amin Alipour.

RCQA "Question Relatedness on Stack Overflow: The Task, Dataset, and Corpus-inspired Model". AAAI 2019 Reasoning and Complex QA Workshop.

\Rightarrow Recent/Unpublished Work

[U1] ★ ■ Bowen Xu, Hongjin Kang, Jiajun Jiang, David Lo. "Systematically Benchmarking Example-Based Program Transformation Techniques on Bug-Fixing Changes".

Professional Service

TOIS'20 Journal Referee for ACM Transactions on Information Systems (CCF-A).

JSS'20 Journal Referee for Journal of Systems and Software (CCF-C).

Teaching

2020 Teaching Assistant, Singapore Management University, IS706 - Software Mining and Analysis

Students' Feedback: https://tinyurl.com/1t9xklsh

2019 Graduate Instructor Certification, Singapore Management University, Singapore.

Certifications, honors & awards

2020 Dean's List (top3%), Singapore Management University, Singapore.

2020 Presidential Doctoral Fellowship (top3%), 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 Zhe-

jiang 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.