

Yuan Tian

✉ School of Information Systems, Singapore Management University, Singapore 178902
☎ +65 83513558
✉ yuan.tian.2012@phdis.smu.edu.sg
🌐 www.mysmu.edu/phdis2012/yuan.tian.2012

RESEARCH INTERESTS

I am interested in Software Engineering with a focus on **software maintenance & evolution**, **empirical studies**, and **social media analysis**.

Leveraging techniques from areas including machine learning, natural language processing, social network analysis, I have proposed models to aid software development & maintenance tasks by either automating manual processes or discovering knowledge from large historical software repositories.

RESEARCH EXPERIENCES

2015 – 2016

Institute for Software Research, Carnegie Mellon University, USA

Exchange PhD Student

Advisor: Claire Le Goues

May – August 2014

Software Analysis and Intelligence Lab, Queen's University, Canada

Visiting Researcher

Advisor: Ahmed E. Hassan and Meiyappan Nagappan

November – December 2013

LIP6, INRIA, Paris, France

Visiting Researcher

Advisor: Julia Lawall

2011 – 2012

School of Information Systems, Singapore Management University, Singapore

Visiting Undergraduate

Advisor: David Lo

HONORS

- Invited by the National Research Foundation (NRF) of Singapore to attend the Royal Society Commonwealth Science Conference, 2016.
- SMU Presidential Doctoral Fellowship Award, 2015.
- Best Paper Award nomination, ICSM, 2013.
- Travel Grant for Female Students, Google and ICSM, 2013.
- Temasek Foundation Leadership Enrichment and Regional Networking Scholarship, Singapore, 2012.
- Excellent Student Awards, Zhejiang University, 2009

PUBLICATIONS

Journal

[J2] On the unreliability of bug severity data
Y Tian, N Ali, D Lo, A.E. Hassan
Empirical Software Engineering (**EMSE**), 2016.

[J1] Automated prediction of bug report priority using multi-factor analysis
Y Tian, D Lo, X Xia, C Sun
Empirical Software Engineering (**EMSE**), 2015.

Book Chapter

[B1] Leveraging Web 2.0 for software evolution
Y Tian and D Lo
Evolving Software Systems, 2014.

Conference (Selected)

[C14] Harnessing Twitter to Support Serendipitous Learning of Developers
A Sharma, Y Tian, A Sulistya, D Lo, A Yamashita
24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (**SANER ERA track**), 2017.

[c13] Learning to Rank for Bug Report Assignee Recommendation
Y Tian, D Wijedasa, D Lo, CL Goues
24th IEEE International Conference on Program Comprehension (**ICPC**), 2016.

[c12] What's Hot in Software Engineering Twitter Space?
A Sharma, Y Tian, D Lo
31st IEEE International Conference on Software Analysis, Evolution, and Reengineering (**ICSME**), 2015.

[c11] What are the Characteristics of High-Rated Apps? A Case Study on Free Android Applications
Y Tian, M Nagappan, D Lo, A E. Hassan
31st IEEE International Conference on Software Maintenance and Evolution (**ICSME**), 2015.

[c10] NIRMAL: Automatic Identification of Software Relevant Tweets Leveraging Language Model
A Sharma, Y Tian, D Lo
22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (**SANER**), 2015.

[c9] Potential Biases in Bug Localization: Do They Matter?
PS Kochhar, Y Tian, D Lo
29th International Conference on Automated Software Engineering (**ASE**), 2014.

[c8] Automated Construction of a Software-Specific Word Similarity Database
Y Tian, D Lo, J Lawall
Software Evolution Week-IEEE Conference on Software Maintenance, Reengineering and Reverse Engineering (**CSMR-WCRE**), 2014

[c7] DRONE: Predicting Priority of Reported Bugs by Multi-Factor Analysis

Y Tian, D Lo, C Sun

29th IEEE International Conference on Software Maintenance (ICSM), 2013.

[c6] Predicting Project Outcome Leveraging Socio-Technical Network Patterns

D Surian, Y Tian, D Lo, H Cheng, EP Lim

17th European Conference on Software Maintenance and Reengineering (CSMR), 2013.

[c5] Automatic Classification of Software Related Microblogs

PK Prasetyo, D Lo, A Palakorna, Y Tian, EP Lim

28th IEEE International Conference on Software Maintenance (ICSM ERA track), 2012.

[c4] Information Retrieval Based Nearest Neighbor Classification for Fine-Grained Bug Severity Prediction

Y Tian, D Lo, C Sun

19th Working Conference on Reverse Engineering (WCRE), 2012.

[c3] What Does Software Engineering Community Microblog About?

Y Tian, P Achananuparp, IN Lubis, D Lo, EP Lim

10th Working Conference on Mining Software Repositories (MSR), 2012.

[c2] Improved Duplicate Bug Report Identification

Y Tian, C Sun, D Lo

16th European Conference on Software Maintenance and Reengineering (CSMR), 2012.

[c1] Identifying Linux Bug Fixing Patches

Y Tian, J Lawall, D Lo

34th International Conference of Software Engineering (ICSE), 2012.

ACADEMIC ACTIVITIES

Journal Reviewer

- Transactions on Software Engineering and Methodology (TOSEM).

- Transactions on Software Engineering (TSE).

- Transactions on Information Systems (TOIS).

- Information and Software Technology Journal (IST).

Conference External Reviewer

- International Working Conference on Source Code Analysis & Manipulation (SCAM), 2016.

- Mining Software Repository (MSR), 2016.

- Empirical Software Engineering and Measurement (ESEM), 2016.

- Asia-Pacific Software Engineering Conference (APSEC), 2015.

Talks

- Talk on "Bug Report Analytics" invited by Advanced Digital Sciences Center (ADSC), Singapore, 2016.

- Present paper in the 29th International Conference on Software Maintenance (ICSM), 2013.

- Present paper in the 28th International Conference on

Software Maintenance (ICSM), 2012.

Conference Volunteer

- The 31st IEEE/ACM International Conference on Automated Software Engineering (ASE), 2016.

- The 3rd International Conference on Social Informatics (SocInfo), 2011.

EDUCATION

Ph.D. , Software Engineering

2012 – 2017 (expected)

Singapore Management University, Singapore

Advisor: David Lo, Associate Professor

GPA: 4.00/4.00

B.S. , Computer Science and Technology

2008 – 2012

Chu Kochen Honors College

Zhejiang University, China

GPA: 3.87/4.00, ranks top 5% over 199 students

REFERENCES

David Lo (PhD advisor)

Associate Professor, School of Information Systems,

Singapore Management University,

davidlo@smu.edu.sg

Ahmed E. Hassan (collaborator of EMSE2016 Journal paper, ICSME2015 paper)

Professor, School of Computing,

Queen's University,

ahmed@cs.queensu.ca

Claire Le Goues (collaborator of ICPC2016 paper)

Assistant Professor, School of Computer Science,

Carnegie Mellon University,

clegoues@cs.cmu.edu

Julia Lawall (collaborator of ICSE2012 paper)

Senior Research Scientist, Inria/LIP6

julia.lawall@lip6.fr

Xin Xia (collaborator of EMSE2015 Journal paper)

Research Assistant Professor, College of Computer Science and Technology,

Zhejiang University,

xxkidd@zju.edu.cn