Yutian Tang, Ph.D.

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EDUCATION

The Hong Kong Polytechnic University, Hong Kong

- Ph.D. in Computing   Aug 2013 – May 2018
  - Thesis: The Pathway to Customized Product Solutions
  - Adviser: Prof.Hareton Leung, Prof. Xiapu Luo

Jilin University, P.R. China

- B.S. in Computer Science   Sep 2009 – Jun 2013

RESEARCH INTERESTS

Software product line, defect prediction, empirical study

WORK EXPERIENCE

Department of Computing, The Hong Kong Polytechnic University,

- Post-doc Research Fellow   Nov 2018 – May 2020

JetBrain,

- Member of JetBrain Marketplace Early Access Program   Feb 2018 – Feb 2019

Department of Computing, The Hong Kong Polytechnic University,

- Part-time Research Assistant   Aug 2017 – May 2018

Education Development Center, The Hong Kong Polytechnic University,

- Part-time Student Helper   Jan 2014 – Jan 2015
  - Enroll in course team for designing course material and present those online;
  - Develop the front-end webpage for the department;
    - Skill-set: HTML, CSS, JS, JQuery, Android, Java backend;
    - Tools: Android Studio, Dreamweaver;
    - Ability: Programming, problem solving, team work;

PUBLICATIONS

[15] Yan Cai, Yutian Tang, Haicheng Li, Le Yu, Hao Zhou, Xiapu Luo, Liang He and Purui Su "Resource Race Attacks on Android," in *Proceedings of 2020 IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*, 2020. (CCF B, CORE B)

[14] Zhou Xu, Sizhe Ye, Tao Zhang, Zhen Xia, Shuai Pang, Yong Wang, Yutian Tang, "MVSE: Effort-Aware Heterogeneous Defect Prediction via Multiple-View Spectral Embedding," in *International Conference on Software Quality, Reliability, and Security(QRS)*, pp 10-17, 2019

[13] Yutian Tang, Xian Zhan, Hao Zhou, Xipu Luo, Zhou Xu, Yajin Zhou, Qiben Yan, "Demystifying Application Performance Management Libraries for Android," in *34th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, accepted 2019. (Core A,CCF-A)

[12] Zhou Xu, Shuai Pang, Yifeng Zhang, Yutian Tang, Jin Liu, Xiapu Luo, Jackey Keung, Xiaohui Cui,, "Identifying Crashing Fault Residence Based on Cross Project Model," in *International Symposium on Software Reliability Engineering (ISSRE)*, accepted 2019.(Core A)

[11] Zhou Xu, Shuai Pang, Tao Zhang, Xiapu Luo, Yutian Tang, Xiao Yu, Lei Xue, "Cross Project Defect Prediction via Balanced Distribution Adaptation based Transfer Learning," in *Journal of Computer Science and Technology (JCST)*, accepted 2019.(CCF B)

[10] Zhou Xu, Shuai Li, Xiapu Luo, Jin Liu, Tao Zhang, Yutian Tang, Jun Xu, Peipei Yuan, Jackey Keung, "TSTSS: A Two-Stage Training Subset Selection Framework for Cross Version Defect Prediction," in *Journal of System and Software (JSS)*, pp. 59-78, 2019. (JCR-Q1)

[9] Xian Zhan, Tao Zhang,Yutian Tang, "A Comparative Study of Android RepackagedApps Detection Techniques," in *Proceedings of 2019 IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*, pp. 321-331, 2019.(Core B)

[8] Zhou Xu, Jin Liu, Xiapu Luo, Zijiang Yang, Yifeng Zhang, Peipei Yuan,Yutian Tang, Tao Zhang, "Software Defect Prediction Based on Kernel PCA and WeightedExtreme Learning Machine," in *Information and Software Technology (IST)*, pp. 182-200, 2018. (JCR-Q1)

[7] Xuejiao Zhao, Hongwei Li,Yutian Tang, Dongjing Gao, Lingfeng Bao, ChinghungLee, "A Smart Context-aware Program Assistant based on Dynamic ProgrammingEvent Modeling," in *In Proceedings of 29th The 29th IEEE International Symposium on Software Reliability Engineering (ISSRE)*, pp. 24-29, 2018. Best Paper Award (Core A)

[6] Yutian Tang, "The Pathway to Customize Product Solutions,", Ph.D. thesis, 2018.

[5] Zhou Xu, Shuai Li, Yutian Tang, Xiapu Luo, Tao Zhang, Jin Liu, and Jun Xu, "CrossVersion Defect Prediction with Representative Data via Sparse Subset Selection," in *Proceedings of 26th IEEE International Conference on Program Comprehension (ICPC)*, pp. 132-143, (CCF B) 2018.

[4] Yutian Tang and Hareton Leung, "StiCProb: A Novel Feature Mining Approach UsingConditional Probability," in *Proceedings of 24th IEEE International Conference onSoftware Analysis, Evolution, and Reengineering (SANER)*, pp. 45-55, 2017.(Core B)

[3] Yutian Tang and Hareton Leung, "Constructing Feature Model by Identifying Variability-aware Modules," in *Proceedings of 25th IEEE International Conference on ProgramComprehension (ICPC)*, pp. 263-274, 2017.(CCF B)

[2] Yutian Tang and Hareton Leung, "Feature Mining for Product Line Construction," in *The First International Conference on Advances and Trends in Software Engineering*, 2015.

[1] Yutian Tang and Hareton Leung, "Top-down Feature Mining Framework for SoftwareProduct Line," in *Proceedings of the International Conference on Enterprise InformationSystem (ICEIS)*, pp.71-81, 2015.

AWARDS & SCHOLARSHIPS		
■ Ph.D. Scholarships, The Hong Kong Polytechnic University		2013 – 2017
■ Best Industry Paper Award, International Symposium on Software Reliability Engineering		2018
■ First Prize, Jilin University Undergraduate Research Award		2012
■ Second Prize, Jilin University Undergraduate Scholarships		2012
■ Third Prize, Jilin University Undergraduate Scholarships		2011

PROFESSIONAL QUALIFICATIONS & MEMBERSHIP

ISACA
- ■ Member   2017 – Present

EuroSys
- ■ Member   2020 – Present

IEEE
- ■ Member   2017 – Present

HKCS (Hong Kong Computer Society)
- ■ Member   2017 – Present

China Qualification Certificate of ComputerScience Technology Proficiency
- ■ Senior Software Engineer   2012 – Present

SKILLS

OO Programming: Java, Python, C++, Android;
Web: HTML, CSS, JS, JQuery, Java, Php, Spring+MyBatis;
DB: MySQL, MongoDB;
Framework: Eclipse (JDT, CDT), IntelliJ, Soot, BootStrap, Matlab;
Android-specified Tools: Apktool, FlowDroid, dex2jar, Robotium, Monkeyrunner;

ACADEMIC SERVICE

Reviewer: IEEE Access, Frontier of Computer Science, SN Applied Sciences;
External Reviewer: IEEE Transactions on Services Computing (2018); IEEE Transactions on Biometrics, Behavior and Identity Science (2018);

TEACHING

COMP3235, Software Project Management, Department of Computing;
   Held lab sessions, design lab material, and graded midterm and final exams.
COMP3233, Software Testing and Quality Assurance, Department of Computing;
   Held lab sessions, handled questions, and graded exams.
COMP4911, Capstone Project, Department of Computing;
   Assisted students in research and capstone project, including Q&A, writing assist.
COMP3211, Software Engineering, Department of Computing;
   Held lab sessions, handled questions, and graded midterm and final exams.
COMP309, System Programming, Department of Computing;
   Undergraduate Scholarships
COMP322, Enterprise Information Systems Project Implementation, Department of Computing;
   Undergraduate Scholarships

REFEREE

- Dr. Xiapu Luo
  Associate Professor, Department of Computing
  The Hong Kong Polytechnic University
  csxluo@comp.polyu.edu.hk
- Dr. Liu Yan Wang, Dennis
  Teaching Fellow, Department of Computing
  The Hong Kong Polytechnic University
  csdennis@comp.polyu.edu.hk
- Prof. Yan Cai
  Professor, Institute of Software
  Chinese Academy of Sciences
  ycai.mail@gmail.com