Yutian Tang

Assistant Professor
(UK Lecturer)
Senior Member, IEEE

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Research Interests

Software Engineering (AIGC for SE, AI4SE, SE4AI, Program Analysis, Empirical Software Engineering, Software Component Analysis, Android);
Security (Mobile Security, Fuzzing, Software Supply Chain Security)

Profile

Dr.Tang is a UK Lecturer (equiv. to Assistant Professor in US system) in Software Engineering at the School of Computing Science at University of Glasgow (Scotland, UK) interested in AI4SE, SE4AI, empirical software engineering, variability in software systems, as well as open source sustainability and software engineering for traditional and AI-enabled systems. Developing mechanisms, techniques, and tools to improve program comprehension in software systems, often focused on systems. Also interested in open-source sustainability and software engineering for AI-enabled systems.

Education

2013-2018	**Ph.D.**, Department of Computing, The Hong Kong Polytechnic University, Hong Kong SAR, China
Advisor	○ Full Prof. Xiapu Luo, and Dr. Hareton Leung (Associate Professor Emeritus)
2009-2013	**B.Sc.**, Department of Computer Science and Technology, Jilin University, China

Research Positions

2023-Present	**Assistant Professor (UK Lecturer)**, *School of Computing Science,* *University of Glasgow,* *Leading University in UK, Member of Russel Group, Top-100 University in the World* *Glasgow, Scotland, United Kingdom*
2020-2022	**Assistant Professor**, *School of Information Science and Technology,* *ShanghaiTech University, China*
2018-2020	**Post-doc Research Fellow**, *The Hong Kong Polytechnic University, Hong Kong SAR, China*

Grants

Highly competitive grants are <mark>highlighted</mark>

Summary	I have secured 3 research grants as solo PI or leading PI, which collectively amount to 80,720(GBP)/98,000(USD) in total. This sum does not include any start-up grants.

Research Grants Received.

Title	Period	Funding Scheme	Amount
OpenAI's Researcher Access Program	2024.03-2024.11	Open AI,	USD 5,000 (100%)
Start-up Grant	2023.07-2025.07	University of Glasgow,	GBP 20,000 (100%)
Research on Android App Debloating with Multi-dimension, Multi-semantic Module Mining (No. 62202306)	2023.01-2025.12	National Natural Science Foundation of China (NSFC), China	CNY 300,000 (100%)
Research on Mobile App Component Behavior Understanding (No. 21PJ1410700)	2021.10-2023.09	Science and Technology Commission of Shanghai Municipality, China	CNY 300,000 (100%)
Early-career Research Fund (No. 2020F0203-000-14)	2020.10-2026.10	ShanghaiTech University, China	CNY 3,000,000 (100%)

As Solo or Leading Principal Investigator (4)

LG5 OpenAI's Researcher Access Program
Agency/Company: OpenAI
Grant Amount: $5000 (in API credit)
Role: PI
Collaborators: Yutian Tang (PI)
Period of Contract: 2024.03-2024.11
Share: 100%

LG4 Start-up Research Grant, University of Glasgow
Agency/Company: University of Glasgow
Grant Amount: 20,000 GBP
Role: PI
Collaborators: Yutian Tang (PI)
Period of Contract: 2023-2025
Share: 100%

LG3 Research on Android App Debloating with Multi-dimension, Multi-semantic Module Mining (No. 6220072429)
Agency/Company: National Natural Science Foundation of China (NSFC) -Youth Program
Grant Amount: 300,000 CNY
Role: PI
Collaborators: Yutian Tang (PI)
Period of Contract: 2023.01-2025.12
Share: 100%
Success Rate: 17.29%

LG2 Vulnerable Components Detection for Apps (No. 21PJ1410700)
Agency/Company: Shanghai Pujiang Program, Science and Technology Commission of Shanghai Municipality
Grant Amount: 300,000 CNY
Role: PI
Collaborators: Yutian Tang (PI)
Period of Contract: 2021.10-2023.09
Share: 100%

LG1 Early Career Research Fund (No.2020F0203-000-14)
Agency/Company: ShanghaiTech University
Grant Amount: 3 million CNY
Role: PI
Collaborators: Yutian Tang (PI)
Period of Contract: 2020-2023
Share: 100%

As Participants (2)

PG2 Improving Mobile Users'Privacy Decisions via Exposing Unexpected Sensitive Operations in Hardened Apps
Agency/Company: Research Grants Council GRF, Hong Kong
Grant Amount:: 416,667 HKD
Role: Participant
Collaborators: Xiapu Luo (PI)
Period of Contract: 2018-2020
Share: Not available

PG1 Research and Development of An Advanced IPS System for Aftermarket Telematics
Agency/Company: Innovation and Technology Fund (ITF), Hong Kong
Grant Amount: 2,386,066 HKD (including 1,899,340 HKD from ITF, and 486,726 from company sponsor);
Role: Participant
Collaborators: Xiapu Luo (PI)
Period of Contract: 2018-2020
Share: Not available

Publications

Summary I have published 36 peer-reviewed papers. In the domain of software engineering, the most prestigious conferences are IEEE TSE, ASE, ICSE, ISSTA, ESEC/FSE, and WWW.

Top-tier Conf./Journal (13) ESEC/FSE (1); WWW (1); ASE (4); IEEE TSE (7);

JCR-Q1 (10), Core-A/A*(25), CORE-B(8), CORE-C(1)

H-index: 14, Citation: 732 (as of Jun 2024)

$\star$ for the corresponding author, (stu) for my students under my supervision

Selected Papers are highlighted

Pre-print Papers (2)

P.2 Zhijie Liu[(stu.)], **Yutian Tang**[*], Meiyun Li, Xin Jin, Yunfei Long, Liang Feng Zhang, Xiapu Luo"LLM-CompDroid: Repairing Configuration Compatibility Bugs in Android Apps with Pre-trained Large Language Models", *arXiv preprint arXiv:2402.15078, pp. 1-12*;

P.1 Yongkun Liu, Jiachi Chen, Tingting Bi, John Grundy, Yanlin Wang, Ting Chen, **Yutian Tang**, Zibin Zheng,"An Empirical Study on Low Code Programming using Traditional vs Large Language Model Support", *arXiv preprint arXiv:2402.01156, pp. 1-12*;

Refereed Conference Papers (19);

C.19 Zhijie Liu[(stu.)], Liangfeng Zhang, **Yutian Tang**[*], "Enhancing Malware Detection for Android Apps: Detecting Fine-granularity Malicious Components", *IEEE/ACM Automated Software Engineering (ASE) Conference,2023: pp. 1-12* CORE-A*, Top 3 conference in SE;

C.18 Zhichao Zhou$^{(stu.)}$, Yuming Zhou, Chunrong Fang, Zhenyu Chen, **Yutian Tang***, "Selectively Combining Multiple Coverage Goals in Search-Based Unit Test Generation", *35th IEEE/ACM International Conference on Automated Software Engineering (ASE),2022: pp. 1-12* CORE-A*, Top 3 conference in SE;

C.17 Guosheng Xu, Siyi Li, Hao Zhou, Shucen Liu, **Yutian Tang**, Li Li, Xiapu Luo, Xusheng Xiao, Guoai Xu and Haoyu Wang, "Lie to Me: Abusing the Mobile Content Sharing Service for Fun and Profit", *The Web Conference (WWW), 2022: pp. 3327–3335,*CORE-A*;

C.16 Zejun Wu, Chao Ma, Xiaochuan Shi, Libing Wu, Dian Zhang, **Yutian Tang**, "BRNN-GAN: Generative Adversarial Networks with Bi-directional Recurrent Neural Networks for Multi-variate Time Series Imputation", *IEEE International Conference on Parallel and Distributed Systems,2021: pp. 217-224*, CORE-B;

C.15 Kunsong Zhao, Zhou Xu, Meng Yan, **Yutian Tang**, Ming Fan, Gemma Catolino, "Just-in-Time Defect Prediction for Android Apps via Imbalanced Deep Learning Model", *The 36th ACM/SIGAPP Symposium On Applied Computing,2021*: pp 1447-1454.

C.14 Hao Zhou, Haoyu Wang, Yajin Zhou, Xiapu Luo, **Yutian Tang**, Lei Xu, Ting Wang, "De-mystifying Diehard Android Apps", *35th IEEE/ACM International Conference on Automated Software Engineering (ASE),2020*: pp. 187-198 CORE-A*, Top 3 conference in SE;

C.13 Kunsong Zhao, Zhou Xu, Tao Zhang, **Yutian Tang**, "Simplified Deep Forest Model based Just-In-Time Defect Prediction for Android Mobile Apps", *20th International Conference on Software Quality, Reliability, and Security (QRS),2020*, CORE-B;

C.12 **Yutian Tang**, Yulei Sui, Haoyu Wang, Xiapu Luo, Hao Zhou, Zhou Xu, "All Your App Links (are) Belong to Us: Understanding the Threats of Instant Apps based Attacks",*The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE),2020*, CORE-A*, Top 2 conference in SE, the vulnerability reported is confirmed by Google;

C.11 Yan Cai, **Yutian Tang**, Haicheng Li, Le Yu, Hao Zhou, Xiapu Luo, Liang He, Purui Su, "Resource Race Attacks on Android", *27th IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER),2020*, , CORE-A, the vulnerability reported is confirmed by Google;

C.10 **Yutian Tang**, Xian Zhan, Hao Zhou, Xiapu Luo, Zhou Xu, Yajin Zhou, Qiben Yan, "Demys-tifying Application Performance Management Libraries for Android", *The 34th IEEE/ACM International Conference on Automated Software Engineering (ASE),2019*, CORE-A*;

C.9 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", 19th International Conference on Software Quality, Reliability, and Security (QRS),2019, CORE-B

C.8 Zhou Xu, Shuai Pang, Yifeng Zhang, **Yutian Tang**, Jin Liu, Xiapu Luo, Jacky Keung, Xiaohui Cui,"Identifying Crashing Fault Residence Based on Cross Project Model",International Symposium on Software Reliability Engineering (ISSRE), 2019, CORE-A;

C.7 Xian Zhan, Tao Zhang, **Yutian Tang**,"A Comparative Study of Android Repackaged Apps Detection Techniques", 2019 IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER),2019, CORE-A;

C.6 Xuejiao Zhao, Hongwei Li, **Yutian Tang**, Dongjing Gao, Lingfeng Bao, Chinghung Lee,"A Smart Context-aware Program Assistant based on Dynamic Programming Event Model-ing",The 29th IEEE International Symposium on Software Reliability Engineering (ISSRE), 2018, CORE-A, Best Industrial Paper Award;

C.5 Zhou Xu, Shuai Li, **Yutian Tang**, Xiapu Luo, Tao Zhang, Jin Liu, Jun Xu,"Cross Version Defect Prediction with Representative Data via Sparse Subset Selection",26th IEEE/ACM International Conference on Program Comprehension (ICPC), 2018, CORE-A;

C.4 **Yutian Tang**, Hareton Leung,"Constructing Feature Model by Identifying Variability-aware Modules", 25th IEEE/ACM International Conference on Program Comprehension (ICPC), 2017, CORE-A;

C.3 **Yutian Tang**, Hareton Leung,"StiCProb: A Novel Feature Mining Approach using Conditional Probability", 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), 2017, CORE-A

C.2 **Yutian Tang**, Hareton Leung,"Feature Mining for Product Line Construction", The First International Conference on Advances and Trends in Software Engineering (SOFTENG), pp.29-33, 2015;

C.1 **Yutian Tang**, Hareton Leung,"A Top-down Feature Mining Framework for Software Product Line", 17th International Conference on Enterprise Information Systems (ICEIS), pp.71-81, 2015;

Refereed Journal Articles (17)

J.17 Zhichao Zhou$^{(stu.)}$, Yuming Zhou, Chunrong Fang, Zhenyu Chen, Xiapu Luo, Jingzhu He, **Yutian Tang***, "Coverage Goal Selector for Combining Multiple Criteria in Search-Based Unit Test Generation", *IEEE Transactions on Software Engineering*, 2024, Top-1 Journal in SE field, IF=9.322, CORE-A*

J.16 Zhijie Liu$^{(stu.)}$, **Yutian Tang***, Xiapu Luo, Yuming Zhou, Liang Feng Zhang, "No Need to Lift a Finger Anymore? Assessing the Quality of Code Generation by ChatGPT", *IEEE Transactions on Software Engineering* Top-1 Journal in SE field, IF=9.322, CORE-A*

J.15 **Yutian Tang***, Zhijie Liu$^{(stu.)}$, Zhichao Zhou$^{(stu.)}$, Xiapu Luo, "ChatGPT vs SBST: A Comparative Assessment of Unit Test Suite Generation", *IEEE Transactions on Software Engineering*, 2024, Top-1 Journal in SE field, IF=9.322, CORE-A*

J.14 Yang Wang, Peng Zhang, Zeyu Lu, Yibiao Yang, **Yutian Tang**, and Yuming Zhou, "Uncovering bugs in code coverage profilers via control flow constraint solving", *IEEE Transactions on Software Engineering*, 2023, Top-1 Journal in SE field, IF=9.322, CORE-A*

J.13 Yuanqing Mei, Yi Rong, Shiran Liu, Zhaoqiang Guo, Yibiao Yang, Hongmin Lu, **Yutian Tang**, and Yuming Zhou, "Deriving thresholds of object-oriented metrics to predict defect-proness of classes: A large-scale meta-analysis", *International Journal of Software Engineering and Knowledge Engineering, 33, no. 05 (2023): 651-695* IF=1.01, CORE-B

J.12 Hongchen Chao$^{(stu)}$, Shuai Li, Yuming Zhou, Ming Fan, Xuejiao Zhao, **Yutian Tang***, "Cheating Your Apps: Black-box Adversarial Attacks on Deep Learning Apps", *Journal of Software: Evolution and Process, 2023*, CORE-B, IF=1.932

J.11 Le Yu, Haoyu Wang, Xiapu Luo, Tao Zhang, Kang Liu, Jiachi Chen, Hao Zhou, **Yutian Tang**, Xusheng Xiao, "Towards Automatically Localizing Function Errors in Mobile Apps with User Reviews", *IEEE Transactions on Software Engineering, 49, no. 4 (2022): 1464-1486* Top-1 Journal in SE field, IF=9.322, CORE-A*

J.10 Jian Huang, Shanhui Liu, **Yutian Tang***, Xiushan Zhang,"Object-Level Remote Sensing Image Augmentation Using U-Net-Based Generative Adversarial Networks", *Wireless Communication and Mobile Computing*, 2021 (2021): 1-12, CORE-B; IF=2.146

J.9 **Yutian Tang**, Hao Zhou, Xiapu Luo, Ting Chen, Haoyu Wang, Zhou Xu, and Yan Cai, "XDebloat: Towards Automated Feature-Oriented App Debloating", *IEEE Transactions on Software Engineering, 48, no. 11 (2021): 4501-4520* Top-1 Journal in SE field, IF=9.322, CORE-A*
Top-1 Recommended Paper from Bing AI for app debloating topic

J.8 Zhen Yang, Jacky Keung, Md Alamgir Kabir, Xiao Yu, **Yutian Tang**, Miao Zhang, Shuo Feng, "AComNN: Attention Enhanced Compound Neural Network For Financial Time-Series Forecasting With Cross-Regional Features", *Applied Soft Computing, 111 (2021): 107649.* JCR-Q1, CORE-C IF=5.47

J.7 Kunsong Zhao, Zhou Xu, Tao Zhang, **Yutian Tang**, Meng Yan, "Simplified Deep Forest Model based Just-In-Time Defect Prediction for Android Mobile Apps", *IEEE Transactions on Reliability, 70, no. 2 (2021): 848-859,* CORE-A, JCR-Q1; IF=5.883

J.6 **Yutian Tang***, Haoyu Wang, Xian Zhan, Xiapu Luo*, Yajin Zhou, Hao Zhou, Qiben Yan, Yulei Sui, Jacky Keung, "A Systematical Study on Application Performance Management Libraries for Apps", *IEEE Transactions on Software Engineering, 2021, 48(8), pp. 3044 - 3065* Top-1 Journal in SE field, CORE-A*, JCR-Q1; IF=9.322;

J.5 Zhou Xu, Tao Zhang, Jacky Keung, Meng Yan, Xiapu Luo, Xiaohong Zhang, Ling Xu, **Yutian Tang**,"Feature Selection and Embedding Based Cross Project Framework for Identifying Crashing Fault Residence"*Information and Software Technology (IST), 131 (2021): 106452, JCR-Q2 CORE-A*; IF=3.862

J.4 Zhou Xu, Shuai Li, Jun Xu, Jin Liu, Xiapu Luo, Yifeng Zhang, Tao Zhang, Jacky Keung, **Yutian Tang**, "LDFR: Learning deep feature representation for software defect prediction",Journal of Systems and Software (JSS), 158 (2019), 110402 JCR-Q1, CORE-A; IF=3.514

J.3 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",Journal of Computer Science and Technology (JCST), 34 (2019): pp. 1039-1062, CORE-B; IF=1.87

J.2 Zhou Xu, Shuai Li, Xiapu Luo, Jin Liu, Tao Zhang, **Yutian Tang**, Jun Xu, Peipei Yuan, Jacky Keung,"TSTSS: A Two-Stage Training Subset Selection Framework for Cross Version Defect Prediction",Journal of System and Software (JSS), 154 (2019): pp. 59-78, JCR-Q1, CORE-A; IF=3.514

J.1 Zhou Xu, Jin Liu, Xiapu Luo, Zijiang Yang, Yifeng Zhang, Peipei Yuan, **Yutian Tang**, Tao Zhang, "Software Defect Prediction Based on Kernel PCA and Weighted Extreme Learning Machine",Information and Software Technology (IST), 106 (2019), pp. 182-200. JCR-Q1; IF=3.862, CORE-A

Software Copyright

C.1 **Yutian Tang**, Zhijie Liu, "Big Data-Based Mobile Application Malicious Component Detection System V1.0",Software Copyright, 2023, Authorized by: National Copyright Administration of P.R.China.

Impact and Engagement

International Stands Working Group/Committee

Standard Working Group Member **IEEE Standard P1633 Working Group: (Recommended Practice for Software Reliability)**

Grant/Award Review Panelist

Grant Reviewer **Engineering and Physical Sciences Research Council (EPSRC) New Investigator Award 2024, UK**

Member **Engineering and Physical Sciences Research Council (EPSRC) Peer Review College (Members will service as grant review panelists for EPSRC proposals), UK**

Award Panelist	**Shanghai Science and Technology Award (Top-1 award in Shanghai in field of Sci. and Tech.)**, 2022
Grant Review Panelist	**Shanghai Innovation Grant for Small and medium-sized Enterprises**, 2021
Grant Review Panelist	**National Natural Science Foundation of China (NSFC)**, 2023

Editorship

Review Editor	**Frontiers in Computer Science** (ESCI Indexed), 2021-now
Review Editor	**Scientific Programming**, 2022-now

Technical Committee Member

Committee Member	**CCF-Technical Committee of Software Engineering**
Committee Member	**CCF-Technical Committee of System Software**
Committee Member	**Shanghai Computer Society-Technical Committee of Software Engineering**
Technical Committee Member	**IEEE Technical Committee on Software Engineering (TCSE)**

Organizing Committee Member

2024	**[1] Internetware 2024**, Publicity Co-Chair

Conference Technical Program Committee (TPC) Member (34 in total)

2025	**[1] 47th International Conference on Software Engineering (ICSE)** Core A*, Top-1 in Software Engineering Research Track **[2] Mining Software Repositories 2025** Core A Research Track

2024 **[1] ACM International Conference on the Foundations of Software Engineering (FSE) (formerly known as ESEC/FSE)** Core A*
Research Track
[2] 39th IEEE/ACM International Conference on Automated Software Engineering (ASE) Core A*
Research Track
[3] International Working Conference on Variability Modelling of Software-Intensive Systems
Research Track;
[4] International Conference on Program Comprehension (ICPC) Core A
Research Track;
[5] The IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER) Core A
ERA Track;
[6] Program Committee, 36th International Conference on Advanced Information Systems Engineering (CAiSE) Core A
[7] Program Committee, ACM TheWebConf 2024 Core A*
Research Track (System Track);
[8] Program Committee, International Conference on Software Engineering & Knowledge Engineering 2024 Core B
Research Track;
[9] 31st Asia-Pacific Software Engineering Conference (APSEC)
Research Track;

2023 **[1] The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)** Core A*
Research Track
Student Research Competition Track
[2] 38th IEEE/ACM International Conference on Automated Software Engineering (ASE) Core A*
Research Track
The New Ideas and Emerging Results (NIER) Track
[3] IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER) Core A
Research Track, Tool Demo Track
[4] International Conference on Program Comprehension (ICPC) Core A
Research Track;
[5] International Conference on Software Engineering & Knowledge Engineering, (SEKE) Core B
Research Track;
[6] 2023 International Conference on Evaluation and Assessment in Software Engineering (EASE) Core A
Research Track;
[7] 20th International Conference on Mining Software Repositories (MSR) Core A
Research Track, Industry Track;
[8] Programming Language Design and Implementation (PLDI) Core A*
Artefact Evaluation Track
[9] 35th International Conference on Advanced Information Systems Engineering (CAiSE) 2023; Core A
Research Track
[10] Program Committee, IEEE/ACM International Conference on Mobile Software Engineering and Systems (MOBILESoft): 2023;
Research Track;
[11] International Working Conference on Variability Modelling of Software-Intensive Systems
Research Track;
[12] 30th Asia-Pacific Software Engineering Conference (APSEC)
Research Track;

2022	**[1] The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)** Core A* Artefact Evaluation Track **[2] Programming Language Design and Implementation (PLDI)** Core A* Artefact Evaluation Track **[3] International Conference on Software Engineering (ICSE)** Core A* Artefact Evaluation Track **[4] International Conference on Program Comprehension (ICPC)** Core A Research Track; **[5] IEEE/ACM International Conference on Mobile Software Engineering and Systems (MobileSoft)** Research Track, Industry Track; **[6] International Conference on Software Engineering & Knowledge Engineering, (SEKE)** Core A Research Track; **[7] International Conference of Modern Systems Engineering Solutions** Research Track **[8] Future Technologies Conference** Research Track **[9] Computing Conference** Research Track
2021	**[1] The ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)** Core A* Artefact Evaluation Track **[2] CCF Chinasoft Conference (ChinaSoft)** Software & Data Intelligence Track

Journal Reviewer (18 in total)

Reviewer	**IEEE Transactions on Dependable and Secure Computing;**
Reviewer	**Journal of Computer Security;**
Reviewer	**IEEE Transactions on Reliability;**
Reviewer	**ACM Transactions on Software Engineering and Methodology (TOSEM)**
Reviewer	**IEEE Communication Magazine;**
Reviewer	**IEEE Transactions on Software Engineering;**
Reviewer	**Automated Software Engineering (ASE);**
Reviewer	**Empirical Software Engineering (EMSE):**
Reviewer	**Frontier of Computer Science;**
Reviewer	**SN Applied Sciences;**
Reviewer	**Scientific Programming;**
Reviewer	**The Journal of System and Software;**
Reviewer	**Frontiers of Information Technology & Electronic Engineering;**
Reviewer	**SCIENCE CHINA Information Sciences;**
Reviewer	**IEEE Access;**
Reviewer	**Security and Communication Networks;**
Ad-hoc Reviewer	**Journal of Information Technology Research;**
Sub-reviewer	IEEE Transactions on Services Computing, IEEE Transactions on Biometrics, Behavior and Identity Science

Awards & Recognition

2023	**Best Reviewer Award**, Asia-Pacific Software Engineering Conference (APSEC), 2023
2021	**Shanghai Pujiang Talent Program**, Science and Technology Commission of Shanghai Municipality
2018	**Best Industry Paper Award** International Symposium on Software Reliability Engineering, Paper: "A Smart Context-aware Program Assistant based on Dynamic Programming Event Modeling"
2013–2017	**Ph.D. Scholarships**, The Hong Kong Polytechnic University
2012	**Undergraduate Research Award, First Prize**, Jilin University
2012	**Undergraduate Scholarships, Second Prize**, Jilin University
2011	**Undergraduate Scholarships, Third Prize**, Jilin University

News Interview/Media Report

VOC, CCTV	12/Aug/2021 – The Voice of China, China Central Television; [see `https://mp.weixin.qq.com/s/glvaDNdsAAXrdAn9imDgnQ` (in Chinese)]
VOC, CCTV	25/May/2022 – The Voice of China, China Central Television; [see `https://content-static.cctvnews.cctv.com/snow-book/index.html?toc_style_id=feeds_default&share_to=wechat&item_id=631265256291590857&track_id=ABAA3E71-3BC8-468E-BB30-E7749E30EBB7_675580162403` (in Chinese)]
VOC, CCTV	26/June/2022 – The Voice of China, China Central Television; [see `https://content-static.cctvnews.cctv.com/snow-book/index.html?toc_style_id=feeds_default&share_to=wechat&item_id=7098209212896444086&track_id=9CEB9984-7D6A-4A10-8AF3-73D7EADCA068_677671690278` (in Chinese)]
IEEE Spectrum	6/July/2024 – IEEE Spectrum [see `https://spectrum.ieee.org/chatgpt-for-coding`]

Professional Qualifications & Membership

2023–Present	**RISCS Affiliate Fellowship**, The Research Institute for Sociotechnical Cyber Security (RISCS), (funded by the National Cyber Security Centre (NCSC))
2023–Present	**Senior Member**, IEEE
2022–Present	**Member**, European Alliance for Innovation (EAI)
2020–Present	**Member**, China Computer Federation (CCF)
2020–Present	**Member**, EuroSys
2017–Present	**Member**, ISACA
2012–Present	**Senior Software Engineer**, under "China Qualification Certificate of Computer Science Technology Proficiency"

Teaching

Instructor

Uni. of Glasgow	COMPSCI5093/5104 Secured Software Engineering, University of Glasgow; Spring'24, Spring'25
Uni. of Glasgow	COMPSCI4015 Professional Software Development, University of Glasgow; Fall'23, Spring'24, Fall'24, Spring'25

ShanghaiTech Uni.	**CS132**, Software Engineering, ShanghaiTech University.		
	Year (Sem)	**Enrollment**	**Teaching Evaluation**
	2021 (Spring)	129	4.5/5.0
	2021 (Fall)	29	4.7/5.0

ShanghaiTech Uni.	**CS224**, Program Analysis, ShanghaiTech University.		
	Year (Sem)	**Enrollment**	**Teaching Evaluation**
	2022 (Spring)	26	4.9/5.0

Teaching Assistant

PolyU.HK — COMP3235, Software Project Management, Department of Computing; (Course for both Undergraduate);

PolyU.HK — COMP3233, Software Testing and Quality Assurance, Department of Computing;(Course for both Undergraduate);

PolyU.HK — COMP4911, Capstone Project, Department of Computing; (Course for both Undergraduate);

PolyU.HK — COMP3211, Software Engineering, Department of Computing; (Course for both Undergraduate);

PolyU.HK — COMP309, System Programming, Department of Computing; (Course for both Undergraduate);

PolyU.HK — COMP322, Enterprise Information Systems Project Implementation, Department of Computing (Course for both Undergraduate);

Supervision

Summary — I have supervised 6 research-oriented students, 7 graduate apprenticeship students, and 7 project/thesis-oriented students.

Research Postgraduate Students (4 Students)

2023 — Jinan Jiang (with H.K Polytechnic University, Co-supervised with Prof. Xiapu Luo)

2022 — Zhijie Liu (with ShanghaiTech Uni.)
Publication: [C19]
Haitao Hu (with ShanghaiTech Uni.)

2021 — Zhichao Zhou (with ShanghaiTech Uni.)
Publication: [C18]

Research Intern (2 Students)

2020-2022 — Hongchen Cao, Undergraduate from ShanghaiTech Uni.
Publication: [J12]

2022-2023 — Xingchen Jin, Undergraduate from ShanghaiTech Uni.
Visiting Student at University of California, Berkeley (UCB)

Graduate Apprenticeships Workplace Assessment Year 3 (3 Students in total)

2023-2024 — 3 Year-3 Students, University of Glasgow

Graduate Apprenticeships Workplace Assessment Year 4 (4 Students in total)

2023-2024 — 4 Year-4 Students, University of Glasgow

Undergraduates/Projects/Thesis (7 Students in total)

2023-2024 — 2 Year-4 Students, University of Glasgow

2022 — 1 Final Year Student, ShanghaiTech University

2021 — 3 Final Year Students, ShanghaiTech University

2020   1 Final Year Student, ShanghaiTech University

Selected University/Teaching/ECDP Trainings

2023-2025   Postgraduate Certificate in Academic Practice (PgCAP)

2023   Equality and Diversity Essentials, University of Glasgow; 07/2023

2023   Implementing Reasonable Adjustments, University of Glasgow; 07/2023

2023   Information Security, University of Glasgow; 07/2023

2023   Introduction to the General Data Protection Regulation, University of Glasgow; 07/2023

University & Department Services

2023   University Open Day, School of Computing Science, University of Glasgow; 30/08/2023

2023   Application Evaluation for Review, School of Computing Science, University of Glasgow; 10/08/2023

2021   Undergraduate Admission Coordinator, ShanghaiTech University, Hangzhou (Zhejiang); 28/6/2021-1/7/2021

2021   Graduate Recruiting at Jilin University, Changchun, 11/6/2021 (Online)

2021   Undergraduate Admission Coordinator, ShanghaiTech University, Tianjin City; 24/4/2021, 25/4/2021

2021   PI Interview Committee, System and Security Center, 1C-201, SIST, ShanghaiTech University, 4/3/2021; 11/3/2021

2021   Graduate Admission Interview, School of Information Science and Technology, 1A-302, SIST, ShanghaiTech University, 19/3/2021

2020   Modular High Performance Computing Application Innovation Workshop, 26/11/2020-Room 110, Administration Center, ShanghaiTech University

2020   Graduate Admission Interview, School of Information Science and Technology, 1A-212, SIST, ShanghaiTech University, 23/10/2020;13/09/2020

2020   Undergraduate Seminar, "System Security, Are We There Yet?", School of Information Science and Technology, ShanghaiTech University, 6/11/2020

2020   PI Interview Committee, System and Security Center, 1C-201, SIST, ShanghaiTech University, 19/11/2020

Conference Talks & Invited Talks

Fudan University   "Demystifying Application Performance Management Libraries for Android", **Yutian Tang**, Fudan University, 8/4/2021, Seminar;

ShanghaiTech University   "System Security, Are We There Yet?", **Yutian Tang**, School of Information Science and Technology, ShanghaiTech University, 6/11/2020, Undergraduate Seminar;

Invited Speaker   The 12th International Conference on Advanced Infocomm Technology(2020);

ShanghaiTech University   "Android, Don't Lie to Me", **Yutian Tang**, ShanghaiTech University, China;

Queen's University Belfast   "Android, Don't Lie to Me", **Yutian Tang**, Queen's University Belfast, United Kingdom;

University of East London   "Android, Don't Lie to Me", **Yutian Tang**, University of East London,United Kingdom

University of Dundee	"Android, Don't Lie to Me", **Yutian Tang**, University of Dundee, United Kingdom;
University of Central Lancashire	"Android, Don't Lie to Me", **Yutian Tang**, University of Central Lancashire, United Kingdom;
University of Canterbury	"Android, Don't Lie to Me", **Yutian Tang**, University of Canterbury, New Zealand;
ESEC/FSE'20	"All Your App Links are Belong to Us: Understanding the Threats of Instant Apps based Attacks", **Yutian Tang**, in *The ACM Joint European Software Engineering Conference and Symposium on the Fundations of Software Engineering*;
Tongji University	"All Your App Links are Belong to Us: Understanding the Threats of Instant Apps based Attacks", **Yutian Tang**, School of Software, Tongji University;
ASE'19	"Demystifying Application Performance Management Libraries for Android,", **Yutian Tang** in *34th IEEE/ACM International Conference on Automated Software Engineering*;
SANER'17	"StiCProb: A Novel Feature Mining Approach Using Conditional Probability", **Yutian Tang**,in *Proceedings of 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering*;
ICPC'17	"Constructing Feature Model by Identifying Variability-aware Modules", **Yutian Tang**, in *IEEE/ACM International Conference on Program Comprehension*;
SOFTENG'15	"Feature Mining for Product Line Construction", **Yutian Tang**, in *The First International Conference on Advances and Trends in Software Engineering*;
ICEIS'15	"Top-down Feature Mining Framework for Software Product Line,"**Yutian Tang**,in *Proceedings of the International Conference on Enterprise Information System*;

Languages

Chinese	Native
English	Proficient (CEFR C1)
Cantonese	Basic

References

Available upon requests.