

KE MAO

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Web: kemao.uk | Github: github.com/Rhapsod

Education

- University College London, London, UK 09/2014 to 09/2017
- PhD Candidate in Computer Science
 - Graduate Research Scholarship (GRS) & Overseas Research Scholarship (ORS)
- Institute of Software, Chinese Academy of Sciences, Beijing, China 09/2011 to 06/2014
- Master of Engineering in Computer Science
 - GPA: 84/100
 - Recommended student for admission with a full scholarship
- Hunan University, Changsha, China 09/2007 to 06/2011
- Bachelor of Engineering in Computer Science
 - GPA: 87/100 | Rank: 3/155
 - National Scholarship (Top 2%) & Computerworld Scholarship (National top 65)

Working and Training Experience

- Research Intern at **National Institute of Informatics (NII, Tokyo)** 02/2016 to 04/2016
Proposed and implemented a system for fully automated JavaScript testing.
- Software Engineering Intern at **Microsoft** 02/2014 to 06/2014
Worked on *XiaoIce* (the NLP chat-bot: msxiaoice.com) at Microsoft Search Technology Centre Asia.
- Software Engineer Intern at **Baidu** 02/2012 to 06/2012
Developed a test automation system based on Metamorphic Testing for Machine Learning applications.
- Outstanding Trainee at **National Supercomputing Center** 07/2011 to 08/2011
Trained on distributed computing & cloud computing.

Recent Projects

- sapienz.tk: Multi-objective Automated Android Testing 09/2015 to 05/2016
- Published at the top conference in software testing ISSTA 2016.
- crowddev.kemao.uk: Prestige Network based Developer Recommendation 08/2013 to 03/2014
- Published at SOSE 2016 (conference of Service-Oriented System Engineering).
- (A full list of publications is available at kemao.uk)

Selected Awards

- Third Prize of Morgan Stanley Hackathon (London) 09/2015
- Second Prize of Thomson Reuters EikonHack 2.0 (London) 11/2014
- Silver Medal of “WeChat” Open Platform Innovation Contest (Northern Region) 05/2013
Lead developer of the “MaiMeng” voice-based SNS mobile application.
- First Prize of “China Software Cup” Software Design Contest (*Ranked 2/1687*) 08/2012
Developed the “iFocus” vertical search engine with distributed crawlers.
- Silver Medal of “Amway Cup” Collegiate Computer Works Contest 05/2011
- First Prize of “YuanGuang Cup” 3rd ACM/ICPC Zhuhai Regional Contest 04/2010
- First Prize of ACM/ICPC 5th Hunan Provincial Programming Contest 10/2009
- Silver Medal of ACM/ICPC Asia Regional Central South China Site 05/2009

Selected Publications

Ke Mao, Mark Harman, Yue Jia. Sapienz: Multi-objective automated testing for Android applications. In International Symposium on Software Testing and Analysis (ISSTA'16), 2016. pp. 94-105. [\[pdf\]](#)

Ke Mao. Towards Realistic Mobile Test Generation. The Doctoral Symposium of 25th International Symposium on Software Testing and Analysis (ISSTA-DS'16), 2016 [\[pdf\]](#)

Ke Mao, Qing Wang, Yue Jia and Mark Harman. PREM: Prestige Network Enhanced Developer-Task Matching for Crowdsourced Software Development. RN/16/06, Department of Computer Science, University College London, 2016. [\[pdf\]](#)

Ke Mao, Licia Capra, Mark Harman and Yue Jia. A Survey of the Use of Crowdsourcing in Software Engineering. RN/15/01, Department of Computer Science, University College London, 2015. [\[pdf\]](#)

Xinye Tang, Song Wang and Ke Mao. Will This Bug-fixing Change Break Regression Testing? In Proceedings of the 9th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM'15), 2015. [\[pdf\]](#)

Ke Mao, Ye Yang, Qing Wang, Yue Jia and Mark Harman. Developer Recommendation for Crowdsourced Software Development Tasks. In Proceedings of the 9th IEEE International Symposium on Service-Oriented System Engineering (SOSE 2015), San Francisco, USA, 2015. pp. 187-198. [\[pdf\]](#)

Ke Mao, Ye Yang, Mingshu Li, Mark Harman. Pricing Crowdsourcing-based Software Development Tasks. In Proceedings of the 35th International Conference on Software Engineering (ICSE'13), San Francisco, USA, 2013. IEEE Press. NIER Track. pp. 1221-1224. [\[pdf\]](#)

XinYe Yang, Zhimin He, Ke Mao, Qi Li, Vu Nguyen, Barry Boehm, Ricardo Valerdi. Analyzing and Handling Local Bias for Calibrating Parametric Estimation Models. Journal of Information and Software Technology (IST), 2013.