

# Yongjian Hu

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CONTACT INFORMATION	465 Winston Chung Hall Dept. of Computer Science University of California Riverside Riverside, CA 92521	<i>Mobile:</i> (951) 880-8390 <i>E-mail:</i> yhu009@cs.ucr.edu <i>Homepage:</i> <a href="http://www.cs.ucr.edu/~yhu009">http://www.cs.ucr.edu/~yhu009</a>
RESEARCH INTERESTS	Software reliability, programming languages, debugging, deterministic replay for event-driven mobile systems.	
EDUCATION	<b>University of California Riverside</b> , Riverside, California USA Ph.D. Candidate, Computer Science & Engineering, (2012.9 - Present) <ul style="list-style-type: none"><li>• GPA: 3.967/4.0</li><li>• Advisor: Prof. Iulian Neamtii</li></ul> <b>Donghua University</b> , Shanghai, China M.S., Computer Science, 2010.3 <b>Donghua University</b> , Shanghai, China B.S., Computer Science, 2007.6	
EXPERIENCE	<b>University of California Riverside</b> , Riverside, CA USA <i>Research Assistant</i> <b>2013.7 - present</b> Research on designing a light-weighted record and replay tool for event-driven mobile system. The current target is Android. Traditional whole system replay tools are too heavy-weighted and not suitable for mobile devices. Our insight is that we could capture only a portion of the events that are enough for reproducing event-driven concurrent bugs. <b>Intel Corporation</b> , Shanghai, China <i>Software Engineer</i> <b>2010.4 - 2012.7</b> Member of Binary Translation Team, SSG. I join the "Houdini" project. "Houdini" is a dynamic binary translator that translates Arm code to x86. It allows Android applications which contain native Arm code to seamlessly run on x86 devices. My main job is to develop tools to ensure product quality and performance. I have developed a code/path coverage tool to provide metrics of the software quality. The performance tool is based on sampling and instrumentation techniques to detect and breakdown the overhead of the product.	
PUBLICATIONS	Yongjian Hu, Iulian Neamtii. Fuzzy and Cross-App Replay for Smartphone Apps. The 11th IEEE/ACM International Workshop on Automation of Software Test (AST 2016), May 2016. Yongjian Hu, Tanzirul Azim, Iulian Neamtii. Versatile yet Lightweight Record-and-Replay for Android. Proceedings of the 2015 ACM SIGPLAN International Conference on Object-Oriented Programming, Systems, Languages, and Applications(OOPSLA), Pages 349-366, October 2015. Yongjian Hu, Tanzirul Azim, Iulian Neamtii. Improving the Android Development Lifecycle with the VALERA Record-and-replay Approach. Third International Workshop on Mobile Development Lifecycle(MobileDeli), October 2015. Wei Xiao, Haihao Shen, Yongjian Hu. A Multi-platform System-level Path Coverage Tool. Intel Design and Test Technology Conference(DTTC), June 2011.	

HONORS AND  
AWARDS

University of California Riverside Graduate Fellowship, 2012.

Excellent Graduate Student of Donghua University, 2010.

Excellent Undergraduate Student of Shanghai. 2007.

Bronze Medal, ACM/ICPC Asia Regional, Beijing 2006.

Bronze Medal, ACM/ICPC Asia Regional, Beijing 2005.

COMPUTER SKILLS

- Programming Languages: Java, C/C++, OCaml, Ruby.
- Tools: Vim, Eclipse, Git, Subversion.
- Operating Systems: Linux, Mac OSX.