

Ronghui Gu

CONTACT INFORMATION	Department of Computer Science Yale University 51 Prospect Street, New Haven, CT 06511	(203) 430-2840 ronghui.gu@yale.edu http://guronghui.com
EXPERTISE	System verification, formal methods, system design, and functional programming	
EDUCATION	Yale University , New Haven, CT Ph.D. in Computer Science • Advisor: Prof. Zhong Shao M.S. in Computer Science • GPA: 3.9 / 4 M.Phil. in Computer Science Tsinghua University , Beijing, China B.S. in Computer Science • GPA: 91.2 / 100 • Rank: 4 / 118	Aug. 2011 - May 2016 (expected) Aug. 2011 - May 2014 Aug. 2011 - May 2014 Aug. 2007 - Jul. 2011
RESEARCH EXPERIENCE	Research Assistant at Yale University • As the team leader, developed CertiKOS, the world's first fully verified hypervisor. • Developed over 200,000 lines of machine checkable proofs in Coq. Research Assistant at Tsinghua University • Proposed μ AIM, a new abstract model for nested interrupts. • Verified the preemptive scheduling of μ C/OS-II.	Aug. 2011 - present Sept. 2009 - May 2011
SELECTED PUBLICATIONS	D. Costanzo, Z. Shao, and R. Gu . End-to-End Verification of Information-Flow Security for C and Assembly Programs. <i>Proceedings of the 37th annual ACM SIGPLAN conference on Programming Language Design and Implementation (PLDI'16)</i> , 2016. C. Hao, X. Wu, Z. Shao, J. Lockerman, and R. Gu . Toward Compositional Verification of Interruptible OS Kernels and Device Drivers. <i>Proceedings of the 37th annual ACM SIGPLAN conference on Programming Language Design and Implementation (PLDI'16)</i> , 2016. R. Gu , J. Koenig, T. Ramananandro, Z. Shao, X. Wu, S. Weng, H. Zhang, and Y. Guo. Deep Specifications and Certified Abstraction Layers. <i>Proceedings of the 42nd ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages (POPL'15)</i> , 2015.	
SELECTED PRESENTATIONS	Yale Programming Languages Day, CT New England Programming Languages and Systems Symposium, CT High Confidence Software and Systems Conference, MD Symposium on Principles of Programming Languages, Mumbai, India	Nov. 2015 June 2015 May 2015 Jan. 2015
SELECTED AWARDS	Robert Willets Carle Scholarship, Yale University Travel Grant, NSF Doctoral Fellowship, Yale University Graduation with Distinction (top 2%), Tsinghua University Outstanding Graduate of Beijing City, China Outstanding Undergraduate Thesis Award, Tsinghua University Sohu Scholarship, Tsinghua University Outstanding Student Leader, Tsinghua University Ticket Master Scholarship, Tsinghua University Outstanding Social Work Scholarship, Tsinghua University Elite Youth League Member of Jiangsu Province, China • The only high school student winner within 3 years. First Prize of National Olympic Mathematics Competition, China	Feb. 2016 Jan. 2015 Aug. 2011 Jul. 2011 Jul. 2011 Jul. 2011 Oct. 2010 Mar. 2010 Oct. 2009 Oct 2008 Apr. 2007 Oct. 2006

TEACHING EXPERIENCE	<p>Teaching Assistant at Yale University</p> <ul style="list-style-type: none"> • CPSC 458/558 Automatic Decision Systems (Fall 2015) Instructor: Dr. Stephen Slade • CPSC 439/539 Software Engineering (Spring 2015 and Spring 2014) Instructor: Prof. Ruzica Piskac • CPSC 424/524 Parallel Programming Techniques (Fall 2014 and Fall 2013) Instructor: Dr. Andrew Sherman • CPSC 112 Introduction to Programming Languages (Spring 2013 and Fall 2012) Instructor: Prof. Drew V. McDermott and Prof. Daniel Abadi 	Fall 2012 - present
SKILLS	Coq, Java, C/C++, Python, Android, L ^A T _E X	