

Ting Su

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Birth: April 7th, 1989, Male

EDUCATION

09/2011 —Now	East China Normal University Ph.D candidate in Computer Science	Shanghai, China
02/2014 —02/2015	University of California, Davis Visiting Ph.D student	Davis, CA, USA
09/2007— 07/2011	East China Normal University B.S. in Software Engineering	Shanghai, China

RESEARCH INTERESTS

Software Testing (Automated Test Data Generation in particular), Symbolic Execution, Software Model Checking, Program Analysis and Verification, Automated Android GUI Testing

RESEARCH PROJECTS and WORK EXPERIENCE

07/2011 - Now	Research Project, ECNU Build a Dynamic Symbolic Execution-based tool (named “CAUT”) to automate test data generation and finding software runtime bugs. I collaborate with several smart people to design the architecture and algorithms of the tool. Currently, this tool is able to analyze C program and automatically generate test cases conforming to structural coverage criteria, e.g., statement, branch, MC/DC coverage and data flow coverage. For further information, please refer to http://www.lab205.org/caut/ .	Shanghai
02/2012 – 01/2013	Research Project, ECNU Work in an automotive OS formal verification project. This automotive OS conforms to the popular OSEK/VDX standard in automotive industry. My research work focuses on using CSP (communicating sequential process) and PAT (a model checking tool) to verify some safety properties of the engine management system running on an OS implementation of AUTOSAR (an evolved standard of OSEK/VDX). One novelty in this work is that we use CSP to simulate the parallel execution process of four strokes in a four-cylinder engine and facilitate the verification of software which has to interact with low-level hardware.	Shanghai
02/2011 - 06/2011	Research Assistant, Shanghai Embedded System Institute Develop a cloud-based game platform on FREECALE platform collaborated with China Telecom. My task involves developing a client control program for the game devices on Linux.	Shanghai
06/2010 - 01/2011	Research Assistant, China Mobile Develop an Android-based video call application based on an ARM platform. My tasks involve modifying the camera driver (OS kernel), 3G/GPRS modules, and upper layer Java Application.	Shanghai

09/2010 - 11/2010	Research Assistant, Shanghai Geological Survey Institute	Shanghai
	Work in a wireless sensor network project, which aims to measure environmental parameters of underground water all over Shanghai city. My task involves developing the server-part program to control sensors via GPRS network.	
03/2010 – 06/2010	Research Assistant, CAN Bus Laboratory in ECNU	Shanghai
	Develop a remote video monitoring system on ARM platform with Browser/Server structure. My tasks involve developing a web applet client and building the server application. The monitoring scene can be accessed via local IP address directly.	

PUBLICATIONS

- [1]. **Ting Su**, Zhoulai Fu, Geguang Pu, Jifeng He, Zhendong Su. Combining Symbolic Execution and Model Checking for Data Flow Testing. The 37th International Conference on Software Engineering (ICSE 2015)
- [2]. Yan Shen, Jianwen Li, Zheng Wang, **Ting Su**, Bin Fang, Geguang Pu and Wangwei Liu Runtime Verification by Convergent Formula Progression. The 21st Asia-Pacific Software Engineering Conference (APSEC 2014)
- [3]. **Ting Su**, Siyuan Jiang, Geguang Pu, Bin Fang, Jifeng He, Jun Yan, Jianjun Zhao. Automated Coverage-Driven Test Data Generation Using Dynamic Symbolic Execution. The 8th International Conference on Software Security and Reliability. (SERE 2014)
- [4]. Yunhui Peng, Yanhong Huang, **Ting Su**, Jian Guo. Modeling and Verification of AUTOSAR OS and EMS Application. 7th International Symposium on Theoretical Aspects of Software Engineering, (TASE 2013).
- [5]. Yongxin Zhao, Hao Xiao, Zheng Wang, Geguang Pu, and **Ting Su**. The Semantics and Verification of Timed Service Choreography. International Journal of Computer Mathematics. 2013.

AWARDS AND HONORS

10/2014	National Graduate Scholarship
06/2011	Shanghai Outstanding Graduate
10/2010	Special Scholarship of ECNU
12/2009	National "ITAT" Cup C Programming Contest, Third Prize
10/2009	The Scholarship of ECNU, First Prize

PROFESSIONAL SKILLS

Programming	C, C++, Java, Ocaml, bash, Ruby
Lauguages:	
OS Platforms:	Windows, Unix/Linux, Mac OS
Database:	SQLite, SQL Server
Hardware Platforms	Single chip microcomputer , ARM series.
Used Tools:	LaTex, PAT, UPPAAL, CIL, Valgrind, SMT solvers (Z3,lpsolve), CREST, KLEE, Otter, SCORE

FOREIGN LANGUAGE CAPABILITY

May 8, 2009	Advanced English Interpretation Written Test	Pass
Jan. 10, 2008	College English Test (Band 6)	Excellent

SOCIAL ACTIVITY

Volunteers or organizers in following workshops and conferences:

1. Verified Software Workshop and Summer School 2012, hosted by Microsoft Research Asia and East China Normal University.
2. 10th International Colloquium on Theoretical Aspects of Computing (ICTAC 2013)
3. Advanced Program for Festschrift Symposium in Honor of He Jifeng (hosted together with ICTAC 2013)
4. The Formal Methods in Software Engineering 2013 Summer School (hosted together with ICTAC 2013)

Hobbies: football, karate, running



I am now supervised by:

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Prof. Geguang Pu
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I was advised by Prof. Zhendong Su when I was a visiting Ph.D student at UC Davis

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