Xin Zhang

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EDUCATION

Georgia Institute of Technology, USA   2011 - Present
Ph.D Candidate in Computer Science. GPA: 4.0/4.0
Advisor: Mayur Naik

Shanghai Jiaotong University, China   2007 - 2011
B.E. in Software Engineering. GPA: 3.7/4.0
Ranked 1 out of 120

RESEARCH INTERESTS

I have a broad interest in programming languages and software engineering, including program analysis, program verification and program synthesis, with emphasis on large programs.
My other interests include mobile-cloud computing and approximate computing.

PUBLICATIONS

- **Xin Zhang**, Ravi Mangal, Radu Grigore, Mayur Naik, Hongseok Yang. On Abstraction Refinement for Program Analyses in Datalog. ACM Conference on Programming Language Design and Implementation (PLDI) 2014. **Distinguished Paper Award.**

- **Xin Zhang**, Ravi Mangal, Mayur Naik, Hongseok Yang. Hybrid Top-down and Bottom-up Interprocedural Analysis. ACM Conference on Programming Language Design and Implementation (PLDI) 2014.

- Jongse Park, Kangqi Ni, **Xin Zhang**, Hadi Esmaeilzadeh, Mayur Naik. Expectation-Oriented Framework for Automating Approximate Programming. Workshop on Approximate Computing Across the System Stack (WACAS) in conjunction with ASPLOS, 2014.

- **Xin Zhang**, Mayur Naik, Hongseok Yang. Finding Optimum Abstractions in Parametric Dataflow Analysis. ACM Conference on Programming Language Design and Implementation (PLDI) 2013.

- Cheng Zhang, Juyuan Yang, Yi Zhang, Jing Fan, **Xin Zhang**, Jianjun Zhao, Peizhao Ou. Automatic Parameter Recommendation for Practical API Usage. International Conference on Software Engineering (ICSE) 2012.

HONORS AND AWARDS

Distinguished Paper Award. The 35th annual ACM SIGPLAN conference on Programming Language Design and Implementation. (3 out of 52 accepted papers)

Finalist for 2014 Qualcomm Innovation Fellowship. (32 out of 137)

POSITIONS HELD

Research Intern, Microsoft Research Cambridge   Summer 2013
Worked with Josh Berdine on **SLAyer**, a formal verification tool for memory safety.

TEACHING EXPERIENCE

CS6340: Software Analysis and Testing, Georgia Tech   Fall 2014
Teaching Assistant

CS4400: Introduction to Database Systems, Georgia Tech   Spring 2013
Teaching Assistant

SKILLS

Programming languages: Java, C++, C, C#, JavaScript, PHP, OCaml, Datalog.

Tools: IDEs (Eclipse, Visual Studio, Netbeans, Adobe Dreamweaver, Zend Studio), Program Analysis Frameworks (Chord, ASM), Formal Proof Management Systems (Coq), Program Profilers (Yourkit), Compiler Infrastructures (LLVM), Editors (VI).

Natural languages: Mandarin (native speaker), English (fluent).