

# Qi Xin

KACB 2323, 266 Ferst Drive, Atlanta, GA, 30332

☎ (+1)401-338-2015 | ✉ qxin6@gatech.edu | 🌐 <https://www.cc.gatech.edu/~qxin6>

## Employment

### Georgia Institute of Technology

POSTDOCTORAL RESEARCHER IN COMPUTER SCIENCE

Atlanta, GA

Aug. 2018-Present

## Education

### Brown University

PH.D. IN COMPUTER SCIENCE, GPA: 4.0/4.0

Providence, RI

May 2018

### Brown University

SC.M. IN COMPUTER SCIENCE, GPA: 4.0/4.0

Providence, RI

May 2016

### Rice University

M.C.S. IN COMPUTER SCIENCE, GPA: 3.93/4.0

Houston, TX

May 2013

### Dalian University of Technology

B.ENG. IN SOFTWARE ENGINEERING

Dalian, Liaoning, China

May 2011

## Publications

### Program Debloating via Stochastic Optimization

QI XIN, MYEONGSOO KIM, QIRUN ZHANG, AND ALESSANDRO ORSO

IN PROCEEDINGS OF THE 42ND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE), NIER TRACK, 2020

### APIMigrator: An API-Usage Migration Tool for Android Apps

MATTIA FAZZINI, QI XIN, AND ALESSANDRO ORSO

IN PROCEEDINGS OF 7TH INTERNATIONAL CONFERENCE ON MOBILE SOFTWARE ENGINEERING AND SYSTEMS (MOBILESOFT), DEMO TRACK, 2020

### Automated API-Usage Update for Android Apps

MATTIA FAZZINI, QI XIN, AND ALESSANDRO ORSO

IN PROCEEDINGS OF THE 28TH ACM SIGSOFT INTERNATIONAL SYMPOSIUM ON SOFTWARE TESTING AND ANALYSIS (ISSTA), 2019

### Identifying Features of Android Apps from Execution Traces

QI XIN, FARNAZ BEHRANG, MATTIA FAZZINI, AND ALESSANDRO ORSO

IN PROCEEDINGS OF 6TH IEEE/ACM INTERNATIONAL CONFERENCE ON MOBILE SOFTWARE ENGINEERING AND SYSTEMS (MOBILESOFT), 2019

### Better Code Search and Reuse for Better Program Repair

QI XIN AND STEVEN P. REISS

IN PROCEEDINGS OF THE 6TH INTERNATIONAL WORKSHOP ON GENETIC IMPROVEMENT (GI), 2019

### SEEDE: Simultaneous Execution and Editing in a Development Environment

STEVEN P. REISS, QI XIN, AND JEFF HUANG

IN PROCEEDINGS OF THE 33RD IEEE/ACM INTERNATIONAL CONFERENCE ON AUTOMATED SOFTWARE ENGINEERING (ASE), 2018

### Seeking the User Interface

STEVEN P. REISS, YUN MIAO, AND QI XIN

IN JOURNAL OF AUTOMATED SOFTWARE ENGINEERING, 2018

### A Demonstration of Simultaneous Execution and Editing in a Development Environment

STEVEN P. REISS AND QI XIN

IN PROCEEDINGS OF THE 32ND IEEE/ACM INTERNATIONAL CONFERENCE ON AUTOMATED SOFTWARE ENGINEERING (ASE), TOOL DEMONSTRATION TRACK, 2017

### Leveraging Syntax-Related Code for Automated Program Repair

QI XIN AND STEVEN P. REISS

IN PROCEEDINGS OF THE 32ND IEEE/ACM INTERNATIONAL CONFERENCE ON AUTOMATED SOFTWARE ENGINEERING (ASE), 2017

## Identifying Test-Suite-Overfitted Patches through Test Case Generation

QI XIN AND STEVEN P. REISS

IN PROCEEDINGS OF THE 26TH ACM SIGSOFT INTERNATIONAL SYMPOSIUM ON SOFTWARE TESTING AND ANALYSIS (ISSTA), 2017

## Towards Addressing the Patch Overfitting Problem

QI XIN

IN PROCEEDINGS OF THE 39TH INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE), DOCTORAL SYMPOSIUM, 2017

## A Framework for a Programmer's Minion

STEVEN P. REISS AND QI XIN

IN PROCEEDINGS OF THE 39TH INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING (ICSE), POSTER TRACK, 2017

## Building Dynamic, Long-Running Systems

STEVEN P. REISS AND QI XIN

IN PROCEEDINGS OF THE 4TH INTERNATIONAL WORKSHOP ON SOFTWARE ENGINEERING FOR SYSTEMS-OF-SYSTEMS (SESOS), 2016

## Awards

---

<b>Brown University Dissertation Fellowship (\$27,190)</b>	2017
<b>Sigsoft CAPS Grants (\$600)</b>	2017
<b>Brown University Conference Travel Grants (\$650)</b>	2017
<b>ISSTA Travel Award (\$771)</b>	2017
<b>ICSE Travel Award (\$1,820)</b>	2017
<b>Dalian University of Technology Excellence Award</b>	2008 - 2010

## Talks

---

<b>Identifying Features of Android Apps from Execution Traces</b>	May 2019
Conference Talk at MobileSoft'19, Montreal, QC, Canada	
<b>Better Code Search and Reuse for Better Program Repair</b>	May 2019
Conference Talk at ICSE-GI'19, Montreal, QC, Canada	
<b>Towards Improving the Effectiveness of Automated Program Repair</b>	Feb. 2018
Research Talk at DePaul University, Chicago, IL, USA	
<b>Leveraging Syntax-Related Code for Automated Program Repair</b>	Nov. 2017
Conference Talk at ASE'17, Urbana-Champaign, IL, USA	
<b>Identifying Test-Suite-Overfitted Patches through Test Case Generation</b>	Jul. 2017
Conference Talk at ISSTA'17, Santa Barbara, CA, USA	

## Teaching

---

<b>Guest Lecturer</b>	Fall 2017
Brown CS126: Compilers and Program Analysis	
<b>Graduate Teaching Assistant</b>	Fall 2016
Brown CS234: Software Engineering	
<b>Graduate Teaching Assistant</b>	Fall 2015
Brown CS126: Compilers and Program Analysis	
<b>Graduate Teaching Assistant</b>	Falls 2015 & 2016
Brown CS160: Embedded and Real Time Software	

## Services

---

<b>Reviewer</b>	2020
International Symposium on Software Testing and Analysis (ISSTA), Artifact Evaluation Track	
<b>Reviewer</b>	2019
Automated Software Engineering (AUSE)	

**Reviewer**

2019

Transactions on Software Engineering (TSE)

**Additional Reviewer**

2017

International Conference on Software Engineering (ICSE)