

# Rui (Gina) Bai

PHD STUDENT · COMPUTER SCIENCE

Department of Computer Science · North Carolina State University

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## Education

### North Carolina State University

PH.D. IN COMPUTER SCIENCE. EST: MAY 2022

- Advisor: Dr. Kathryn T. Stolee

Raleigh, NC

Aug. 2016 - Present

### Wake Forest University

B.S. IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

- Magna Cum Laude
- Advisor: Dr. Paúl Pauca

Winston-Salem, NC

May 2016

## Employment History

### North Carolina State University

GRADUATE RESEARCH ASSISTANT (SUPERVISED BY DR. KATHRYN T. STOLEE)

Raleigh, NC

Fall 2016 - Present

INSTRUCTOR

Summer 2020, 2021

GRADUATE TEACHING ASSISTANT

Fall 2017, 2020

### Mei & Mark LLP

WEB SUPPORT SPECIALIST (VOLUNTEER)

Washington, DC

Dec. 2016 - Present

### Wake Forest University

UNDERGRADUATE TEACHING ASSISTANT

Winston-Salem, NC

Spring 2015

SUMMER RESEARCH FELLOW (SUPERVISED BY DR. PAÚL PAUCA & DR. KENNETH S. BERENHAUT)

Summer 2014

## Teaching Experience

### North Carolina State University

INSTRUCTOR

Raleigh, NC

Summer 2020, 2021

- **CSC 116: Introduction to Computing - Java**, 3 credit, undergraduate core course, Summer 2021, 35 students
  - Delivered lectures and supervised in-class labs synchronously online via Zoom
  - Flipped classroom; adapted course materials; managed undergraduate teaching assistant
  - Graded group projects; held office hours; provided assistance to students via emails and piazza posts
- **CSC 226: Discrete Mathematics for Computer Scientists**, 3 credit, undergraduate core course, Summer 2020, 21 students
  - Delivered lectures synchronously online via Zoom
  - Developed and adapted course materials; managed two graduate teaching assistants
  - Held office hours; provided assistance to students via emails and piazza posts

GRADUATE TEACHING ASSISTANT

Fall 2017, 2020

- **CSC 712/591: Software Testing**, 3 credit, graduate elective course (for Ph.D. and M.S. students), Fall 2020, 38 students
  - Assisted in course assignment designing, provided assistance to students during in-class labs and after class, held office hours, and graded assignments
- **CSC 216: Programming Concepts - Java**, 4 credit, undergraduate core course, Fall 2017, 200+ students (25 in lab)
  - Supervised weekly lab sessions, graded assignments, and managed team formation
  - Collaborated with twelve undergraduate and graduate teaching assistants, provided assistance to all students enrolled in this course via emails and Piazza posts (ranked highest in contributions in *Piazza Instructor Participation Report*), held office hours, and graded exams

### Wake Forest University

UNDERGRADUATE TEACHING ASSISTANT & STUDENT TUTOR

Winston-Salem, NC

Fall 2013 – Spring 2016

- Held office hours, graded assignments, provided assistance to students
- Conducted one-on-one and group tutoring sessions on Computer Science, Mathematics, and Mandarin Chinese

## Publications [Peer-Reviewed]

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\* denotes papers currently under review.

**\*Check It Off: Exploring the Impact of a Checklist Intervention on the Quality of Student-written Unit Tests [Under Review]**

ICSE SEET 2022\*

GINA R. BAI, KAI PRESLER-MARSHALL, THOMAS PRICE, KATHRYN T. STOLEE.

- IEEE/ACM International Conference on Software Engineering - Software Engineering Education and Training

**\*Does Assertion Roulette Smell Bad? An Experiment from the Perspective of Testing Education [Under Review]**

ICST 2022\*

GINA R. BAI, KAI PRESLER-MARSHALL, SUSAN R. FISK, KATHRYN T. STOLEE.

- IEEE International Conference on Software Testing, Verification and Validation

**\*Fair Enough: Searching for Sufficient Measures of Fairness [Under Review]**

ICSE 2022\*

SUVODEEP MAJUMDER, JOYMALLYA CHAKRABORTY, GINA R. BAI, KATHRYN T. STOLEE, TIM MENZIES

- IEEE/ACM International Conference on Software Engineering

**How Students Unit Test: Perceptions, Practices, and Pitfalls**

ITICSE 2021

GINA R. BAI, JUSTIN SMITH, KATHRYN T. STOLEE.

- ACM Conference on Innovation and Technology in Computer Science Education

**How Graduate Computing Students Search When Using an Unfamiliar Programming Language**

ICPC 2020

GINA R. BAI, JOSHUA KAYANI, KATHRYN T. STOLEE.

- IEEE/ACM International Conference on Program Comprehension

**Improving Students' Testing Practices**

ICSE Doc Sym 2020

GINA R. BAI.

- IEEE/ACM International Conference on Software Engineering - Doctoral Symposium

**Exploring Tools and Strategies Used During Regular Expression Composition Tasks**

ICPC 2019

GINA R. BAI, BRIAN CLEE, NISCHAL SHRESTHA, CARL CHAPMAN, CIMONE WRIGHT, KATHRYN T. STOLEE.

- IEEE/ACM International Conference on Program Comprehension

**Investigating the Effects of Gender Bias on GitHub**

ICSE 2019

NASIF IMTIAZ, JUSTIN MIDDLETON, JOYMALLYA CHAKRABORTY, NEILL ROBSON, GINA R. BAI, EMERSON MURPHY-HILL.

- IEEE/ACM International Conference on Software Engineering

**Exploring Regular Expression Evolution**

SANER 2019

PEIPEI WANG, GINA R. BAI, KATHRYN T. STOLEE.

- IEEE International Conference on Software Analysis, Evolution and Reengineering

## Honors & Awards

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2021 **Graduate Merit Award**, College of Engineering, North Carolina State University

2018 **Grace Hopper Travel Scholarship Recipient**, NCSU-ACM-W (Women in Computer Science)

2016-2017 **Graduate Research Award Recipient**, College of Engineering, North Carolina State University

2014 **Research Fellowship Recipient**, Wake Forest University

## Service

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**NCSU-ACM-W (Women in Computer Science)**

Raleigh, NC

MEMBER/GRADUATE RELATIONS CHAIR

2017 - 2020

- Led the bi-weekly event "Coding Nights"
- Organized the workshops and invited guest speakers from the industry for Techwickz Coding Bootcamp 2018
- Presented at WiCS Research Symposium 2018 and mentored female graduate students in WiCS Research Symposium 2019
- Managed the internal logistics of DiamondHacks Hackathon 2019

## Miscellaneous

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**Language** English (fluent), Mandarin Chinese (fluent)

**Honor Society** Upsilon Phi Epsilon (International Honor Societies for the Computing and Information Disciplines, invited 2015)