# Rui (Gina) **Bai**

PhD Student · Computer Science

*Department of Computer Science · North Carolina State University*

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## Education

**North Carolina State University**  ·  *Raleigh, NC*
Ph.D. in Computer Science. Est: May 2022  ·  *Aug. 2016 - Present*
• Advisor: Dr. Kathryn T. Stolee

**Wake Forest University**  ·  *Winston-Salem, NC*
B.S. in Computer Science, Minor in Mathematics  ·  *May 2016*
• Magna Cum Laude
• Advisor: Dr. Paúl Pauca

## Employment History

**North Carolina State University**  ·  *Raleigh, NC*
Graduate Research Assistant (supervised by Dr. Kathryn T. Stolee)  ·  *Fall 2016 - Present*

Instructor  ·  *Summer 2020, 2021*

Graduate Teaching Assistant  ·  *Fall 2017, 2020*

**Mei & Mark LLP**  ·  *Washington, DC*
Web Support Specialist (Volunteer)  ·  *Dec. 2016 - Present*

**Wake Forest University**  ·  *Winston-Salem, NC*
Undergraduate Teaching Assistant  ·  *Spring 2015*

Summer Research Fellow (supervised by Dr. Paúl Pauca & Dr. Kenneth S. Berenhaut))  ·  *Summer 2014*

## Teaching Experience

**North Carolina State University**  ·  *Raleigh, NC*
Instructor  ·  *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**  ·  *Winston-Salem, NC*
Undergraduate Teaching Assistant & Student Tutor  ·  *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]

### 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 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 Hoppper 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

### 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) |