Rui (Gina) **Bai**

PhD Student · Computer Science

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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

Wake Forest University	*Winston-Salem, NC*
Summer Research Fellow (supervised by Dr. Paúl Pauca & Dr. Kenneth S. Berenhaut))	*May 2014 - Aug. 2014*

North Carolina State University	*Raleigh, NC*
Graduate Research Assistant (supervised by Dr. Kathryn T. Stolee)	*Aug. 2016 - Aug. 2017*
Graduate Teaching Assistant	*Aug. 2017 - Dec. 2017*
Graduate Research Assistant (supervised by Dr. Kathryn T. Stolee)	*Jan. 2018 - May 2020*
Instructor	*May 2020 - Aug. 2020*
Graduate Teaching Assistant	*Aug. 2020 - Dec. 2020*
Graduate Research Assistant (supervised by Dr. Kathryn T. Stolee)	*Jan. 2021 - May 2021*
Instructor	*May 2021 - Aug. 2021*
Graduate Research Assistant (supervised by Dr. Kathryn T. Stolee)	*Aug. 2021 - PRESENT*

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

Teaching Experience

North Carolina State University	*Raleigh, NC*
Instructor	*Summer 2021, Summer 2020*

- **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 2020, Fall 2017*

- **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

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

Language English (fluent), Mandarin Chinese (fluent)

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