Gina R. **Bai**

PHD CANDIDATE · COMPUTER SCIENCE

Department of Computer Science · North Carolina State University

✉ rbai2@ncsu.edu | 🏠 ginabai.github.io

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

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
- **CSC 216: Programming Concepts - Java**, 4 credit, undergraduate core course, Fall 2017, 200+ students (25 in lab)

Wake Forest University   *Winston-Salem, NC*

UNDERGRADUATE TEACHING ASSISTANT & STUDENT TUTOR   *Fall 2013 – Spring 2016*

Publications [Peer-Reviewed]

Check It Off: Exploring the Impact of a Checklist Intervention on the Quality of Student-written Unit Tests   *ITiCSE 2022*

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

- ACM Conference on Innovation and Technology in Computer Science Education

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

2021	**Graduate Merit Award Recipient**, 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

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)