

Department of Computer Science · Vanderbilt University

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Education

North Carolina State University

Raleigh, NC

PH.D. IN COMPUTER SCIENCE

June 2022

May 2016

- Advisor: Dr. Kathryn T. Stolee
- Dissertation: Improving Student Testing Practices through a Lightweight Checklist Intervention
- · Committee: Dr. Kathryn Stolee, Dr. Sarah Heckman, Dr. Thomas Price, Dr. Shiyan Jiang, Dr. Susan Fisk

Wake Forest University Winston-Salem, NC

B.S. IN COMPUTER SCIENCE, MINOR IN MATHEMATICS

· Magna Cum Laude

Employment History

Vanderbilt University Nashville, TN

ASSISTANT PROFESSOR OF THE PRACTICE Fall 2022 - Present

North Carolina State University

Raleigh, NC

GRADUATE RESEARCH ASSISTANT (SUPERVISED BY DR. KATHRYN T. STOLEE) Fall 2016 - Summer 2022

INSTRUCTOR Summer 2020, 2021

GRADUATE TEACHING ASSISTANT Fall 2017, 2020

Mei & Mark LLP Washington, DC

WEB SUPPORT SPECIALIST (VOLUNTEER) Dec. 2016 - May 2021

Wake Forest University Winston-Salem, NC

Undergraduate Teaching Assistant Spring 2015

SUMMER RESEARCH FELLOW (SUPERVISED BY DR. PAÚL PAUCA) Summer 2014

Teaching Experience

Vanderbilt University Nashville, TN

INSTRUCTOR Fall 2022 - Present

- CS 1101: Programming and Problem Solving (Java), 3 credit, undergraduate core course
 - Developed and adapted lecture materials; managed 20+ undergraduate teaching assistants; designed and proctored exams
 - Provided office hours and student meetings; provided assistance to students via emails and piazza posts
 - Semesters Taught: Spring 2023; Fall 2022, 169 students enrolled

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;
- Provided 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
 - Provided 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)

OCTOBER, 2022 Rui Bai · Curriculum Vitae Wake Forest University

Undergraduate Teaching Assistant & Student Tutor

Winston-Salem, NC Fall 2013 - Spring 2016

- CSC 101: Overview of Computer Science, 3 credit, undergraduate course for non-CS majors/minors
- · Conducted one-on-one and group tutoring sessions on Computer Science, Mathematics, and Mandarin Chinese

Publications [Peer-Reviewed] _____

Does Assertion Roulette Smell Bad? An Experiment from the Perspective of Testing Education

VL/HCC 2022

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

• IEEE Symposium on Visual Languages and Human-Centric Computing

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

Professional Service

Program Committee

2023 **Poster Reviewer**, ACM Special Interest Group on Computer Science Education (SIGCSE)

Journal Reviewer

2022 Manuscript Reviewer, IEEE Transactions on Learning Technologies (TLT)

Other Service

2017-2020 Graduate Relations Chair/Member, NCSU-ACM-W (Women in Computer Science)

Rui Bai · Curriculum Vitae

Raleigh, NC

Miscellaneous_

Language English (fluent), Mandarin Chinese (fluent)

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