

#### ASSISTANT PROFESSOR OF THE PRACTICE

Department of Computer Science · Vanderbilt University

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### **Education**

### **North Carolina State University**

Raleigh, NC

PH.D. IN COMPUTER SCIENCE

June 2022

- · 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

May 2016

· 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

Summer 2020 2021

GRADUATE TEACHING ASSISTANT

INSTRUCTOR

Fall 2017, 2020

Mei & Mark LLP

**Wake Forest University** 

Washington, DC

WEB SUPPORT SPECIALIST (VOLUNTEER)

Dec. 2016 - Present
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, 3 credit, undergraduate core course, Fall 2022

### **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)

JULY, 2022 GINA R. BAI · CURRICULUM VITAE 1

Undergraduate Teaching Assistant & Student Tutor

# 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

 $Nasif\,Imtiaz,\,Justin\,Middleton,\,Joymallya\,Chakraborty,\,Neill\,Robson,\,\textbf{Gina}\,\textbf{R.\,Bai},\,Emerson\,Murphy-Hill.$ 

• 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 \_\_\_\_\_

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)

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)