

Makayla Muster

Updated January 19, 2023

✉ mmoster@clemson.edu

in [mmoster](#)

🔗 [makayla-moster](#)

ID [Makayla Muster](#)

💻 makayla-moster.github.io

G [Makayla Muster](#)

Research Interests

Computer Science Education, Software Engineering Education,
Remote/Hybrid Learning, Remote/Hybrid Work, HCI

Education

Clemson University

Ph.D. Student in Computer Science

Advisor: [Dr. Paige Rodeghero](#)

Clemson, SC

August 2019 – Present

Clemson University

Graduate Certificate, Engineering and Science Education

Clemson, SC

December 2022

Clemson University

M.S. in Computer Science

Clemson, SC

May 2021

University of North Carolina Wilmington

B.S. Honors in Computer Science, concentration in Digital Arts

Magna Cum Laude

Thesis: “Conforming Realistic, Procedural Tree Models to User-Drawn Shapes”

Advisor: [Dr. Brittany Morago](#) Committee: Drs. Toni Pence & Russell Herman

Wilmington, NC

May 2019

GPA: 3.886

Research Experience

Research Assistant, HFSE Lab

Advisor: [Dr. Paige Rodeghero](#)

Studying how communication tools prepare collegiate software engineering students for roles in industry.

May 2020 – Present

Clemson University

Researcher, EdASE Coding Camp for Autism

EdASE Directors: Drs. [Paige Rodeghero](#) & [Andrew Begel](#) codeatclemson.com

Examining how computer coding camps for autism impact students’ self-efficacy and communication skills.

Jan. 2021 – Present

Research Assistant, Visual Computing Lab

Advisor: [Dr. Daljit Singh Dhillon](#)

Developed code to model reaction-diffusion systems over arbitrary meshes.

Jan. 2020 – May 2020

Clemson University

Teaching Experience

Graduate Teaching Assistant

School of Computing

CPSC 4910/4911: Seminar in Professional Issues II

Fall 2019, Fall 2020 – Present

Clemson University

S21, F21, S22, F22, S23

Conducted lab lectures, provided aid, and was scrum master for 3-6 sections of student SE teams. (approx. 60 - 100 undergraduate students)

CPSC 9500: Graduate Seminar S23

Conducted speaker searches, developed course materials, and organized/lead seminar sessions for a departmental, graduate-level seminar course. (6 graduate students)

CPSC 1010/1011: Computer Science I F19, F20

Conducted lab lectures, provided aid and office hours, and graded weekly introductory programming assignments for 3 sections of students. (60 undergraduate students)

Instructor, EdASE Coding Camp for Autism 2021, 2022

EdASE Directors: Drs. [Paige Rodeghero](#) & [Andrew Begel](#) codeatclemsun.com

Developed 2D game development course content and activities involving pixel art and videogame narratives.

Helped lead camp instruction and developed content for multiple days of camp. Liaison between parents and instructors for the 2022 camp.

Instructor, Engineering Expectations June 2018 – Aug. 2019

Summer & Weekend Camps University of North Carolina Wilmington

Taught children how to code in HTML/CSS, Python, Java, and Scratch in several week-long and weekend computer science camps. (20 students/camp)

Publications

Journal Articles

- 2023 J.1 ***Moster, M.**, *Kokinda, E., Rodeghero, P., McNeese, N. “Both Sides of the Story: Changing the “pre-existing culture of dread” surrounding student teamwork in breakout rooms”, to appear in Proc. of the 2023 ACM on Human Computer Interaction, Computer Supported Cooperative Work ([CSCW ‘23](#)), Minneapolis, MN, USA, October 13-18, 2023.
- * denotes co-first authorship

Peer-Reviewed

Conference Papers

- 2023 C.7 Kokinda, E., **Moster, M.**, Dominic, J., Rodeghero, P. “Under the Bridge: Trolling and the Challenges of Recruiting Software Developers for Empirical Research Studies”, to appear in Proc. of the 45th IEEE/ACM International Conference on Software Engineering - New Ideas and Emerging Results Track ([ICSE NIER ‘23](#)), Melbourne, Australia, 17-19 May 2023.

Honors and Awards

Graduate Student Travel Grant (Clemson University GSG) 2020
Robert M. Geist III Fellowship in Computing (Clemson University) 2019
Dean's List (8 semesters, UNCW) 2015 – 2019

Service and Outreach

President School of Computing Graduate Student Association
Clemson University Aug. 2022 – Present
SoCGSA is a student organization that represents and holds events for computing graduate students in CS, HCC, DPA, and BDSI.
Conducted administrative duties, organization of events, and task delegation.

Invited Panelist New Graduate Student & Postdoc Teaching Conference
Clemson University Aug. 2022

Student Volunteer [Carolinas Women In Computing Conference 2022](#)
University of North Carolina Wilmington April 2022

Hackathon Participant [CUhackit 2022](#)
Clemson University January 29-30, 2022

Student Volunteer [FormaliSE at ICSE 2021](#)
Madrid, Spain (Virtual) May 2021

Program Committee Member & Website Chair [SEmotion 2021](#)
Madrid, Spain (Virtual) May 2021
Deployed, edited, and kept website up-to-date before and during conference period.

Pen Pal, [Letters to a Prescientist Program](#) Aug. 2020 – Present
Corresponded through letters with an elementary school student each school year who is interested in learning more about STEM careers.
Received an **award for Exceptionally Engaging Letters** for the 2020-2021 school year.

President Upsilon Pi Epsilon
University of North Carolina Wilmington Aug. 2018 – May 2019

Skills

Research Methods
Survey, Survey Design, Interview, Interview Design, Qualitative Analysis, Quantitative Analysis, Grounded Theory

Programming Languages
Python, Java, C++, C, \LaTeX , HTML/CSS

Tools

OpenGL, Maya, Git, GitHub, Adobe Photoshop, Adobe Illustrator, Adobe XD, MAXQDA, Azure DevOps, Qualtrics, Taguette

Languages

English (fluent), Spanish (limited conversant)