

Makayla Muster

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 [mmoster](#)

 [makayla-moster](#)

 [Makayla Muster](#)

 [makayla-moster.github.io](#)

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Research Interests

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

Education

Clemson University

Clemson, SC

Ph.D. Student in Computer Science

August 2019 – Present

Dissertation: TBA

Advisor: [Dr. Paige Rodeghero](#)

Committee: Drs. [Nathan McNeese](#), [Julian Brinkley](#), & [D. Matthew Boyer](#)

Clemson University

Clemson, SC

Graduate Certificate, Engineering and Science Education

December 2022

Clemson University

Clemson, SC

M.S. in Computer Science

May 2021

University of North Carolina Wilmington

Wilmington, NC

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

May 2019

Magna Cum Laude

GPA: 3.886

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

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

Research Experience

Research Assistant, HFSE Lab

May 2020 – Present

Advisor: [Dr. Paige Rodeghero](#)

Clemson University

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

Researcher, EdASE Coding Camp for Autism

Jan. 2021 – Present

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

[edase.org](#)

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

Research Assistant, Visual Computing Lab

Jan. 2020 – May 2020

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

Clemson University

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

Teaching Experience

Graduate Teaching Assistant

Fall 2019, Fall 2020 – Present

School of Computing

Clemson University

CPSC 4910/4911: Seminar in Professional Issues II 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](#) [edase.org](#)
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

Judge Clemson Tigertown Throwdown Robotics Competition
Clemson University February 4, 2023

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)