

MAKAYLA MOSTER

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EDUCATION

Clemson University

Ph.D. Candidate in Computer Science

- Robert M. Geist Fellowship

Clemson, SC

Aug. 2019 – Present

2019 – 2020

Clemson University

M.S. in Computer Science

Clemson, SC

Aug. 2019 – May 2021

University of North Carolina Wilmington

B.S. Honors in Computer Science

- Concentration in Digital Arts

- Magna Cum Laude

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

Wilmington, NC

Aug. 2015 – May 2019

3.886 / 4.0

EXPERIENCE

Computer Game Coding Camp

Instructor/Researcher

- Developed 2D game development course content and activities for the 2021 camp.
- Lead camp instruction/developed content for one full day of camp.

Jan. 2021 – Present

codeatclemson.com

Graduate Teaching Assistant

School of Computing

- CPSC 4910/4911 [Seminar in Professional Issues II]

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

- CPSC 1010/1011 [Computer Science I]

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

Aug. 2019 – Dec. 2019, Aug. 2020 – Present

Clemson University

Spring 2021, Fall 2021

Fall 2019, Fall 2020

Graduate Research Assistant

School of Computing

- Developed code to model reaction-diffusion systems over arbitrary meshes under the guidance of Dr. Daljit Singh Dhillon.

Jan. 2020 – May 2020

Clemson University

Computer Science Tutor

Department of Computer Science

- Tutored students in multiple computer science courses including Introduction to Programming, Discrete Mathematics, Data Structures, and Object-Oriented Programming.

Sept. 2018 – Dec. 2018

University of North Carolina Wilmington

Engineering Expectations Summer & Weekend Camps

Instructor

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

June 2018 – Aug. 2019

University of North Carolina Wilmington

PUBLICATIONS

2021

- **Moster, M.**, Ford, D., Rodeghero, P. “ ‘Is My Mic On?’ Preparing SE Students for Collaborative Remote Work and Hybrid Team Communication”, in Proc. of the 43rd IEEE/ACM International Conference on Software Engineering - Joint Software Engineering and Education Track (ICSE JSEET ‘21), Madrid, Spain, May 23-29, 2021.
- Huff Jr, E. W., Boateng, K., **Moster, M.**, Rodeghero, P., Brinkley, J. “Exploring the Perspectives of Teachers of the Visually Impaired Regarding Accessible K12 Computing Education”, in Proc. of the 51st Technical Symposium on Computer Science Education (SIGCSE ‘21), Toronto, Canada, March 13-20, 2021.

2020

- Huff Jr, E. W., Boateng, K., **Moster, M.**, Rodeghero, P., Brinkley, J. “Examining the Work Experience of Programmers with Visual Impairments”, in Proc. of the 36th International Conference on Software Maintenance and Evolution - New Ideas and Emerging Results Track (ICSME NIER ‘20), Adelaide, Australia, Sept. 27-Oct. 3, 2020.

AWARDS, FELLOWSHIPS, AND HONORS

Robert M. Geist III Fellowship in Computing

Recipient

Aug. 2019 – May 2020

Clemson University

Upsilon Pi Epsilon

UNCW Chapter President

Apr. 2018

2018 - 2019

- Inducted into the UNCW chapter of Upsilon Pi Epsilon, the international honors society for the Computing and Information disciplines.

Dean’s List

8 semesters

Aug. 2015 – May 2019

University of North Carolina Wilmington

RELEVANT COURSEWORK

- Teaching Undergraduate Engineering
- The Science of Teamwork and Technology
- Teaching STEM Online
- Research Methods for Human-Centered Computing
- Foundations of Software Engineering

REVIEWING EXPERIENCE

Int’l Workshop on Emotion Awareness in Software Engineering

Reviewer

2021

SEmotion 2021 website

ACM Joint ESEC and Symposium on the FSE

Subreviewer

2021

ESEC/FSE 2021 website

CONFERENCES ATTENDED

2021

- International Conference on Software Engineering (ICSE), Spain [SV, Virtual]
- Special Interest Group Computer Science Education (SIGCSE) Technical Symposium [Virtual]

2020

- International Conference on Software Maintenance and Evolution (ICSME), Australia [Virtual]
- International Conference on Software Engineering (ICSE), South Korea [Virtual]

EXTRACURRICULARS AND SERVICE

ICSE 2021 Student Volunteer

SV for FormaliSE 2021

May 2021

Madrid, Spain (Virtual)

SEMotion 2021 Program Committee

PC Member

Dec. 2020 – May 2021

ICSE 2021 Workshop website

SEMotion 2021 Chair

Website Chair

Dec. 2020 – May 2021

ICSE 2021 Workshop website

- Deployed, edited, and kept website up-to-date before and during conference period.

Letters to a Pre-Scientist Program

Pen Pal

Aug. 2020 – June 2021

www.prescientist.org

- Corresponded through letters with an elementary school student aspiring for a job in STEM.
- Received an **award for Exceptionally Engaging Letters** for the 2020-2021 school year.

SKILLS

Research Methods: Survey & Design, Interview & Design, Qualitative Analysis, Quantitative Analysis

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

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

Languages: English (fluent), Spanish (limited conversant)