

MAKAYLA MOSTER

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Education

Clemson University

Ph.D. Student

- Robert M. Geist Fellowship

Clemson, SC

Aug. 2019 – Present

2019-2020

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

Clemson Game Coding Camp

Instructor/Researcher

- Currently developing course content to be taught during the camp in Summer 2021.

Jan. 2021 – Present

codeatclemson.com

Graduate Teaching Assistant

School of Computing

- CPSC 4910/4911
- CPSC 1011

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

Clemson University

Spring 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

Web Development Assistant

Division for University Advancement

- Aided in the maintenance and development of web pages and emails using HTML, CSS, and JavaScript.

Aug. 2018 – June 2019

University of North Carolina Wilmington

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

Instructor

Engineering Expectations Summer & Weekend Camps

- 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.

Posters & Presentations

International Conference on Software Engineering (ICSE)

May 2021

Joint Track on Software Engineering Education and Training (JSEET)

Madrid, Spain (Virtual)

- Presentation Title: “ ‘Is My Mic On?’ Preparing SE Students for Collaborative Remote Work and Hybrid Team Communication”

Visual Computing Seminar

Fall 2019

Clemson University

Clemson, SC

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

UNCW Spring Undergraduate Research Showcase

Spring 2019

University of North Carolina Wilmington

Wilmington, NC

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

Awards, Fellowships, & Honors

Robert M. Geist III Fellowship in Computing

Aug. 2019 – May 2020

Recipient

Clemson University

Upsilon Pi Epsilon

Apr. 2018

UNCW Chapter President

2018 - 2019

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

Dean’s List

Aug. 2015 – May 2019

8 semesters

University of North Carolina Wilmington

Research Projects

Undergraduate Thesis

Aug. 2018 – May 2019

Conforming Realistic, Procedural Tree Models to User-Drawn Shapes

C++, OpenGL

- *Committee:* Dr. Brittany Morago (Advisor), Dr. Toni Pence, and Dr. Russell Herman
- For departmental honors in Computer Science.

- This project included building upon a previous project to generate an evolving, realistic, three-dimensional plant model with leaf venation and real-time lighting using fractals. The main focus was to generate a plant model within a user-defined shape.

Undergraduate Directed Independent Study

Jan. 2018 – May 2018

Generating Plant Models using Fractals

C++, OpenGL

- *Advisor:* Dr. Brittany Morago
- This directed independent study produced an evolving plant model with basic leaf venation and basic real-time lighting using fractals.

Extracurriculars & Service

SEMotion 2021 Program Committee

Dec. 2020 – Present

Invited

ICSE 2021 Workshop

SEMotion 2021 Website Chair

Dec. 2020 – Present

ICSE 2021 Workshop

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

Letters to a Pre-Scientist Program

Aug. 2020 – Present

Pen Pal

www.prescientist.org

- Corresponded through letters with an elementary school student aspiring for a job in STEM.

Science Olympiad Volunteer

2018, 2019

Experiment and Test Administrator Assistant

University of North Carolina Wilmington

S.T.E.A.M. Celebration Volunteer

Sept. 2017

Mathematics and Statistics Club

University of North Carolina Wilmington

Mathematics and Statistics Club

Aug. 2017 – May 2019

Member

University of North Carolina Wilmington

SIGGRAPH Club

Aug. 2016 – May 2019

Member

University of North Carolina Wilmington