

# 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

### Graduate Teaching Assistant

*School of Computing*

- CPSC 1011

\* Instructed 3 introductory computer science lab sessions, held weekly office hours, and graded lab assignments each semester.

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

*Clemson University*

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*

### 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 (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 (ICSME NIER '20), Adelaide, Australia, Sept. 27-Oct. 3, 2020.

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## Posters & Presentations

### Visual Computing Seminar

*Clemson University*

Fall 2019

*Clemson, SC*

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

### UNCW Spring Undergraduate Research Showcase

*University of North Carolina Wilmington*

Spring 2019

*Wilmington, NC*

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

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## Awards, Fellowships, & 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*

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## Research Projects

### Undergraduate Thesis

*Conforming Realistic, Procedural Tree Models to User-Drawn Shapes*

Aug. 2018 – May 2019

*C++, OpenGL*

- *Committee:* Dr. Brittany Morago (Advisor), Dr. Toni Pence, and Dr. Herman Russell
- 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

*Generating Plant Models using Fractals*

Jan. 2018 – May 2018

*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.

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## Extracurriculars

### SEMotion 2021 Program Committee

*Invited*

Dec. 2020 – Present

*ICSE 2021 Workshop*

### SEMotion 2021 Website Chair

*ICSE 2021 Workshop*

Dec. 2020 – Present

- Edited and updated website.

### Letters to a Pre-Scientist Program

*Pen Pal*

Aug. 2020 – May 2021

[www.prescientist.org](http://www.prescientist.org)

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

### Science Olympiad Volunteer

*Experiment and Test Administrator Assistant*

2018, 2019

*University of North Carolina Wilmington*

**S.T.E.A.M. Celebration Volunteer**  
*Mathematics and Statistics Club*

Sept. 2017  
*University of North Carolina Wilmington*

**Mathematics and Statistics Club**  
*Member*

Aug. 2017 – May 2019  
*University of North Carolina Wilmington*

**SIGGRAPH Club**  
*Member*

Aug. 2016 – May 2019  
*University of North Carolina Wilmington*