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in mmoster

makayla-moster

makayla-moster.github.io

Makayla Moster

G Makayla Moster

Research Interests Computer Science Education, Software Engineering Education,

Remote/Hybrid Learning, Remote/Hybrid Work

Education Clemson University Clemson, SC

Ph.D. Student in Computer Science

August 2019 – Present

Dissertation: TBA

Advisor: Dr. Paige Rodeghero

Committee: Drs. D. Matthew Boyer, Julian Brinkley, & Kelly Caine

Clemson University Clemson, SC

Graduate Certificate, Engineering and Science Education December 2022

Clemson, SC Clemson University

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 GPA: 3.886

Magna Cum Laude

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.

January 2021 - Present Researcher, EdASE Coding Camp for Autism EdASE Directors: Drs. Paige Rodeghero, Andrew Begel, & D. Matthew Boyer Examining how computer coding camps for autism impact students' selfefficacy and communication skills.

Research Assistant, Visual Computing Lab

January 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

August 2020 – May 2023 & August 2019 – December 2019

School of Computing

Clemson University

CPSC 4910/4911: Seminar in Professional Issues II

S/F21, S/F22, S23

Conducted lab lectures, provided aid, and was scrum master for 3-6 sections of student software engineering 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, 2023

EdASE Directors: Drs. Paige Rodeghero, Andrew Begel, & D. Matthew Boyer 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 – August 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

I.1

2023

*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", in Proc. of the ACM on Human Computer Interaction, 7, CSCW1, Article 30 (April 2023), 33 pages.

* denotes co-first authorship

Peer-Reviewed Conference Papers

2023 C.6

Kokinda, E., **Moster, M.**, Dominic, J., Rodeghero, P. "Under the Bridge: Trolling and the Challenges of Recruiting Software Developers for Empirical Research Studies", 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.

Professional		Member, ACM	2023 – Present
	SW.1	Moster, M. , Begel, A., Boyer, D. M., Rodeghero, P. "A Long ploring Autistic High Schoolers' Interests in CS", 4th Annua Research Workshop (AAWRW '22), Virtual, May 16-18, 2022	al Autism at Work
Symposia and Workshop Pape 2022	ers SW.2	Moster, M. "Investigating Communication Tools in SE Cap Proc. of the 2022 ACM Conference on International Comput search V.2 (ICER '22), Lugano and Virtual Event, Switzerla 2022.	ing Education Re-
2020	C.1	Huff Jr, E. W., Boateng, K., Moster, M. , Rodeghero, P., Brink the Work Experience of Programmers with Visual Impairn the 36th International Conference on Software Maintenance New Ideas and Emerging Results Track (ICSME NIER '20), A Sept. 27-Oct. 3, 2020.	nents", in Proc. of ce and Evolution -
	C.2	Huff Jr, E. W., Boateng, K., Moster, M. , Rodeghero, P., Brin the Perspectives of Teachers of the Visually Impaired Regard Computing Education", in Proc. of the 51st Technical Sympostic Science Education (SIGCSE '21), Toronto, Canada, March 13	ing Accessible K12 sium on Computer
2021	C.3	Moster, M. , Ford, D., Rodeghero, P. "'Is My Mic On?' Prepfor Collaborative Remote Work and Hybrid Team Communithe 43rd IEEE/ACM International Conference on Software Engineering and Education Track (ICSE JSEET '2 May 23-29, 2021.	cation", in Proc. of Engineering - Joint
	C.4	Moster, M., Kokinda, E., Re, M., Dominic, J., Lehmann, J., Beg P. "'Can You Help Me?' An Experience Report of Teamworing Camp for Autistic High School Students", in Proc. of the International Conference on Software Engineering - Software ucation and Training Track (ICSE SEET '22), Pittsburgh, PA 2022.	ck in a Game Cod- ne 44th IEEE/ACM re Engineering Ed-
2022	C.5	Moster, M., Chandra, A., Chu, C., Liu, W., Rodeghero, P. Analysis of the Music Practices of Remote Software Develope 2022 ACM/IEEE International Symposium on Empirical Soft and Measurement (ESEM '22), Helsinki, Finland, September	ers", in Proc. of the ware Engineering

2021 – Present

2018 - Present

Memberships

Member, IEEE

Member, Upsilon Pi Epsilon

Inducted into the UNCW chapter of Upsilon Pi Epsilon in April 2018, the international honors society for the Computing and Information disciplines.

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 August 2022

Student Volunteer Carolinas Women In Computing Conference 2022 University of North Carolina Wilmington April 2022

Hackathon ParticipantCUhackit 2022Clemson UniversityJanuary 29-30, 2022

Student VolunteerFormaliSE at ICSE 2021Madrid, 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 August 2020 – May 2023 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 August 2018 – May 2019

Skills

Research Methods

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

Programming Languages

Python, C++, C, LaTEX, HTML/CSS

Tools

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