Research Interests Computer Science Education, Software Engineering Education,

Remote/Hybrid Learning, Remote/Hybrid Work

Education Ph.D. Candidate in Computer Science August 2019 – Present

Clemson University Clemson, SC

Dissertation: "Learning Through Online Participation: From Breakout Rooms

to Discord"

Advisor: Dr. Paige Rodeghero

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

Graduate Certificate, Engineering and Science Education December 2022 Clemson University Clemson, SC

M.S. in Computer Science May 2021

Clemson University Clemson, SC

B.S. Honors in Computer Science, Digital Arts concentration May 2019 University of North Carolina Wilmington Wilmington, NC

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

esearch 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 January 2021 – Present EdASE Directors: Drs. Paige Rodeghero, Andrew Begel, & D. Matthew Boyer Examining how computer coding camps for autism impact students' self-

efficacy and communication skills.

Research Assistant, Visual Computing Lab August 2019 – 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 2019 – May 2023

School of Computing

Clemson University

CPSC 8510: AI-Receptive Software Development

2024

Aided in Coursera course creation by developing course outline, lecture topics, and assignments.

Spring 2024: Aided in course development

CPSC 9500: Graduate Seminar

2023

Conducted speaker searches, developed course materials, and organized/lead seminar sessions for a departmental, graduate-level seminar course.

Hosted by SoCGSA during my time as president.

Spring 2023: 6 graduate students

CPSC 4910/4911: Seminar in Professional Issues II

2021 - 2023

Conducted lab lectures, provided aid, and was scrum master for multiple sections of student software engineering teams.

Spring 2021: 87 undergraduate students (4 sections)

Fall 2021: 60 undergraduate students (3 sections)

Spring 2022: 72 undergraduate students (3 sections)

Fall 2022 [Lead GTA]: 77 undergraduate students (3 sections)

Spring 2023 [Lead GTA]: 94 undergraduate students (6 sections)

CPSC 1010/1011: Computer Science I

2019, 2020

Conducted lab lectures, provided aid and office hours, and graded weekly introductory programming assignments for 3 sections of students.

Fall 2019: 65 undergraduate students (3 sections)

Fall 2020: 55 undergraduate students (3 sections)

Instructor, EdASE Coding Camp for Autism

2021, 2022, 2023, 2024

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.

Summer 2021: 14 campers Summer 2022: 15 campers Summer 2023: 20 campers

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.

approx. 20 campers/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", 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

C.10

2024

- Kokinda, E., **Moster, M.**, Rodeghero, P., Boyer, D. M. "Informal Learning Opportunities Neurodiversity, Self-Efficacy, and Motivation for Programming Interest", presented at the 16th International Conference on Computer Supported Education (CSEDU '24), Angers, France, May 2-4, 2024.
- C.9 Moster, M., Boyer, D. M., Rodeghero, P. "WIP: Exploring how an Unofficial Discord Server Supports Undergraduate Learning in Computer Science", to be presented at 2024 ASEE Annual Conference & Exposition, Portland, Oregon, USA, June 23-26, 2024.
- C.8 Kokinda, E., Moster, M., Rodeghero, P., Boyer, D. M. "Compiling Resilience: A Study on First-Generation Women Pursuing Computing Degrees", to be presented at 2024 ASEE Annual Conference & Exposition, Portland, Oregon, USA, June 23-26, 2024.
- C.7 Moster, M., Kokinda, E., Boyer, D. M., Rodeghero, P. "Experiences with Summer Camp Communication via Discord", in Proc. of the 46th IEEE/ACM International Conference on Software Engineering Sofware Engineering Education and Training Track (ICSE SEET '24), Lisbon, Portugal, April 14-20, 2024.

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, May 17-19, 2023.

2022

C.5 Moster, M., Chandra, A., Chu, C., Liu, W., Rodeghero, P. "In the Zone: An Analysis of the Music Practices of Remote Software Developers", in Proc. of the 2022 ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM '22), Helsinki, Finland, September 19-23, 2022.

Moster, M., Kokinda, E., Re, M., Dominic, J., Lehmann, J., Begel, A., Rodeghero, C.4 P. "'Can You Help Me?' An Experience Report of Teamwork in a Game Coding Camp for Autistic High School Students", in Proc. of the 44th IEEE/ACM International Conference on Software Engineering - Software Engineering Education and Training Track (ICSE SEET '22), Pittsburgh, PA, USA, May 21-29, 2022. Moster, M., Ford, D., Rodeghero, P. "'Is My Mic On?' Preparing SE Students C.3 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. C.2 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. Huff Jr, E. W., Boateng, K., Moster, M., Rodeghero, P., Brinkley, J. "Examining C.1 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. Workshop Papers SW.2 Moster, M. "Investigating Communication Tools in SE Capstone Courses", in Proc. of the 2022 ACM Conference on International Computing Education Research V.2 (ICER '22), Lugano and Virtual Event, Switzerland, August 7-11, 2022. SW.1 Moster, M., Begel, A., Boyer, D. M., Rodeghero, P. "A Longitudinal Study Exploring Autistic High Schoolers' Interests in CS", 4th Annual Autism at Work Research Workshop (AAWRW '22), Virtual, May 16-18, 2022. Member, ACM 2023 - Present Member, IEEE 2021 - Present Member, Upsilon Pi Epsilon 2018 - Present **Exceptionally Engaging Letters award** (Letters for a Prescientist) 2021

2021

2020

2022

Symposia and

Professional

Memberships

Honors

and Awards

Dean's List (8 semesters, UNCW)

Graduate Student Travel Grant (Clemson University GSG)

Robert M. Geist III Fellowship in Computing (Clemson University) 2019

2020

2015 - 2019

Service
and Outreach

Skills

Judge (Clemson University

Clemson Tigertown Throwdown Robotics Competition February 4, 2023

President School of Computing Graduate Student Association Clemson University August 2022 – Present

SoCGSA is a student organization that represents and holds events for Clemson's School of Computing graduate students in Computer Science, Human-Centered Computing, Digital Production Arts, and Biomedical Data Science & Informatics graduate programs.

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

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

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