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**Assistant Professor** 

Department of Computer Science

University of North Carolina Wilmington

## Education Ph.

### Ph.D. in Computer Science

May 2025

Clemson University

Clemson, SC

Dissertation: "Learning Through Online Participation: From Breakout Rooms

to Discord"

**Graduate Certificate, Engineering & 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"

#### **Publications**

## Journal Articles

2023 J.1<sup>†</sup>

\*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.

# Peer-Reviewed Conference Papers

2024 C.10

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<sup>‡</sup> **Moster, M.** & Boyer, D. M. "WIP: Exploring how an Unofficial Discord Server Supports Undergraduate Learning in Computer Science", presented at 2024 ASEE Annual Conference & Exposition, Portland, Oregon, USA, June 23-26, 2024.

 $<sup>^\</sup>dagger$ paper presented  $^\ddagger$ poster presented \*co-first authorship

- C.8<sup>†</sup> Kokinda, E., **Moster, M.**, Boyer, D. M. "Compiling Resilience: A Study on First-Generation Women Pursuing Computing Degrees", presented at 2024 ASEE Annual Conference & Exposition, Portland, Oregon, USA, June 23-26, 2024.
- C.7<sup>†</sup> 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.
- 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.
  - C.4<sup>†</sup> Moster, M., Kokinda, E., Re, M., Dominic, J., Lehmann, J., Begel, A., Rodeghero, 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.
- 2021 C.3<sup>†</sup> 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.
  - 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.
- 2020 C.1 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.

## Symposia and Workshop Papers SW.2<sup>‡</sup> 2022 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. Dissertation 2025 D.1 **Moster, M.** "Learning Through Online Participation: From Breakout Rooms to Discord", (2025). All Dissertations. 3900. https://open.clemson.edu/all\_dissertations/3900/ **Teaching Experience Assistant Professor** August 2025 – Present Department of Computer Science University of North Carolina Wilmington **CIT 425**: Human-Computer Interfaces 2025 Fall 2025: TBD undergraduate students (1 section) CIT 213: Introduction to Databases 2025 Fall 2025: TBD undergraduate students (1 section) **Adjunct Faculty** January 2025 – May 2025 Department of Computer Science University of North Carolina Wilmington CIT 425: Human-Computer Interfaces 2025 Spring 2025: 9 undergraduate students (1 section, online) **Graduate Teaching Assistant** August 2019 - May 2025 School of Computing Clemson University **CPSC 8740**: AI-Receptive Software Development 2024 - 2025Spring 2024: Aided in course development Fall 2024: 116 graduate students (3 sections + 1 Coursera section) Spring 2025: 46 graduate students (1 Coursera section) CPSC 9500: Graduate Seminar 2023 Hosted by SoCGSA during my time as president. Spring 2023: 6 graduate students CPSC 4910/4911: Senior Computing Practicum 2021 - 2023Spring 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
Fall 2019: 65 undergraduate students (3 sections)	
Fall 2020: 55 undergraduate students (3 sections)	

**Instructor**, EdASE Coding Camp for Autism

2021 - 2024

Summer Camp Clemson University Developed course content surrounding 2D game design using Godot Engine (2021, 2022) and Scratch (2023, 2024).

Created instructional videos for campers and led camp instruction online.

Liaison between parents and instructors for the 2022 camp.

Summer 2021: 14 campers Summer 2022: 15 campers Summer 2023: 20 campers Summer 2024: 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

Honors	Exceptionally Engaging Letters award (Letters	for a Prescientist)	2021
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
Professional	ACM	2023 - Pi	esent
Memberships	IEEE	2021 - Pi	resent
	Upsilon Pi Epsilon	2018 - Pi	resent
Reviewing	ASEE Annual Conference	2024	, 2025
Experience	ACM CSCW		2022

ACM CSCW 2022
IEEE/ACM ICSE SEmotion 2021
ACM FSE 2021

Service Invited Panelist An Inside Look at Clemson's MSCS Enrollment & Courses and Outreach Clemson University September & October 2024

Invited PanelistDeep Dive into Clemson's MSCS ProgramClemson UniversityJune & July 2024

Session Moderator ASEE Annual Conference & Exposition 2024
Portland, Oregon June 2024

**Judge** Clemson Tigertown Throwdown Robotics Competition
Clemson University February 4, 2023

**President** School of Computing Graduate Student Association Clemson University August 2022 – May 2024

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

period.

Corresponded through letters with an elementary school student each school year who is interested in learning more about STEM careers.

August 2020 – May 2023

Received an **award for Exceptionally Engaging Letters** for the 2020-2021 school year.

## Skills Research Methods

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

#### **Programming Languages**

Pen Pal, Letters to a Prescientist Program

Python, C++, C, LATEX, HTML/CSS, Gatsby, Tailwind CSS, Scratch, Godot Engine

#### **Tools**

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