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Incoming Assistant Professor

Department of Computer Science

University of North Carolina Wilmington

Education 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

 † paper presented ‡ poster presented *co-first authorship

Journal Articles

2023

 $J.1^{\dagger}$

C.10

*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

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", 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", 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.
- 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[†] 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[†] 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 2022 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.

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

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 - 2025

Spring 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 - 2023

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

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 and Awards Exceptionally Engaging Letters award (Letters for a Prescientist)2021Graduate Student Travel Grant (Clemson University GSG)2020Robert M. Geist III Fellowship in Computing (Clemson University)2019Dean's List (8 semesters, UNCW)2015 - 2019

Professional Memberships ACM 2023 – Present IEEE 2021 – Present Upsilon Pi Epsilon 2018 – Present 2018 – P

Reviewing Experience

ASEE Annual Conference 2024, 2025
ACM CSCW 2022
IEEE/ACM ICSE SEmotion 2021
ACM FSE 2021

Service and Outreach

Invited Panelist An Inside Look at Clemson's MSCS Enrollment & Courses 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 Participant

CUhackit 2022

Clemson University January 29-30, 2022

Student Volunteer FormaliSE at ICSE 2021 Madrid, 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.

Research Methods

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

Programming Languages

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

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Skills