

Carson Woods

✉ contact@carsonwoods.io
🌐 https://carsonwoods.io/

✉ carson.woods@emory.edu



Employment History

May 2022 – August 2023	📌 Research Associate , University of Tennessee at Chattanooga.
May 2021 – August 2021	📌 Research and Development Intern , Sandia National Laboratories.
May 2019 – August 2019	📌 Research and Development Intern , Sandia National Laboratories.
October 2017 – October 2021	📌 Research Assistant , University of Tennessee at Chattanooga.
May 2016 – November 2017	📌 CodeDay Nashville Regional Manager , StudentRND.
May 2017 – August 2017	📌 Summer Intern , Healthcare Corporation of America (HCA).

Education

2023 – Present	📌 Ph.D. Computer Science & Informatics, Emory University Pre-Candidacy
2017-2022	📌 B.S. Computer Science: Data Science, University of Tennessee at Chattanooga
	📌 B.S. Mathematics, University of Tennessee at Chattanooga

Scholarly Works

Conference Proceedings

- 1 **C. Woods**, D. Schafer, P. G. Bridges, and A. Skjellum, “Quantifying and Modeling Irregular MPI Communication,” in *2024 IEEE 24th International Symposium on Cluster, Cloud and Internet Computing (CCGrid)*, May 2024, pp. 525–533. 🔗 DOI: 10.1109/CCGrid59990.2024.00065.
- 2 **C. Woods**, M. L. Curry, and A. Skjellum, “Implementing a Common HPC Environment in a Multi-User Spack Instance,” in *HPCSYSPROS19*, Denver, CO, 2019, p. 7. 🔗 DOI: 10.5281/zenodo.3525373.

Research Presentations

May 2024	📌 Presented [1] at the CCGrid Conference in Philadelphia, PA.
November 2019	📌 Presented [2] at the SC19 HPCSYSPROS Workshop in Denver, CO.

Honors & Awards

April 2022	📌 Outstanding Senior Award – Computer Science: Data Science Note: Due to my double major extending my time as an undergraduate student, I was eligible for this award 2 years in a row.
	📌 Outstanding Senior Award – Mathematics
April 2021	📌 Outstanding Senior Award – Computer Science: Data Science

University & Professional Involvement

- 2019-2021  **Captain of the University of Tennessee at Chattanooga's MocSec Team**
Description of Role: I became team captain in the fall of 2019 and have since led the team to pass the SECCDC competition qualifiers of the 2021 competition season. During this season, the team went on to win best in defense and best in service uptime at the regional competition.

Skills

- Languages  Strong reading, writing, and speaking competencies in English.
Coding  Python, Rust, C, L^AT_EX.
Databases  PostgreSQL, SQLite.
Expertise  MPI communication, Distributed HPC applications, and systems programming.

References

Available on Request