Neea Rusch

Curriculum vitae

School of Computer and Cyber Sciences
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Education

8/2020–present	**PhD student in Computer Science**, *Augusta University*, Augusta, GA USA.
8/2014–5/2016	**Master of Science in Computer Science**, *Georgia Institute of Technology*, Atlanta, GA USA.
8/2011–5/2014	**Bachelor of Science in Computer Science**, *Augusta University*, Augusta, GA USA.

Teaching Experience

2019–2021	**CSCI 1301 - Principles of Computer Programming I**, *Instructor*, Augusta University. Taught in: fall 2019 – spring and fall 2020 – spring and summer and fall 2021.
2019	**CSCI 1200 - Introduction to Computers and Programming**, *Instructor*, Augusta University. Taught in spring and summer 2019.

Publications

[3] Clément Aubert, Thomas Rubiano, Neea Rusch, and Thomas Seiller. "Distributing and Parallelizing Non-canonical Loops". In: *Verification, Model Checking, and Abstract Interpretation*. Springer Nature Switzerland, 2023, pp. 1–24. DOI: 10.1007/978-3-031-24950-1_1.

[2] Clément Aubert, Thomas Rubiano, Neea Rusch, and Thomas Seiller. "mwp-Analysis Improvement and Implementation: Realizing Implicit Computational Complexity". In: *7th International Conference on Formal Structures for Computation and Deduction (FSCD 2022)*. Vol. 228. LIPIcs. Schloss Dagstuhl–Leibniz-Zentrum für Informatik, 2022, 26:1–26:23. DOI: 10.4230/LIPIcs.FSCD.2022.26.

[1] Neea Rusch. "Formally Verified Resource Bounds Through Implicit Computational Complexity". In: *Companion Proceedings of the 2022 ACM SIGPLAN International Conference on Systems, Programming, Languages, and Applications: Software for Humanity*. SPLASH Companion 2022. ACM, 2022, pp. 17–20. DOI: 10.1145/3563768.3565545.

Talks & Presentations

2023-03-10	SCOT: A Seminar on Semantic and Formal Approaches to Complexity, *virtual*.
2023-01-21	The Ninth International Workshop on Coq for Programming Languages (CoqPL 2023), *Boston, USA*.
2023-01-16	The 24th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI 2023), *Boston, USA*.
2022-12-06	The SPLASH Doctoral Symposium (SPLASH 2022), *University of Auckland, New Zealand*.
2022-06-20	The 28th International Conference on Types for Proofs and Programs (TYPES 2022), *University of Nantes, France*.
2022-04-01	The 37th Annual Graduate Research Day – poster, *Augusta University, USA*.
2021-11-18	Laboratoire d'Informatique de Paris Nord (LIPN) seminar, *Université Sorbonne Paris Nord, France*.
2021-11-15	Inria Celtique research team seminar, *IRISA Rennes, France*.
2021-03-26	The 36th Annual Graduate Research Day, *Augusta University, USA*.

Academic Service

PC Member	**Artifact Evaluation Committee (AEC)**. APLAS – Asian Symposium on Programming Languages and Systems – 2022. COORDINATION – International Conference on Coordination Models and Languages – 2023.

ECOOP – European Conference on Object-Oriented Programming – 2023.
ICFP – International Conference on Functional Programming – 2022, 2023.
PLDI – Programming Language Design and Implementation – 2022, 2023.
PPoPP – Principles and Practice of Parallel Programming – 2023.

Extended Review Committee.
ECOOP Research Papers – 2023.

Volunteer In-person student volunteer at POPL'23 and SPLASH'22.

University Service

2021-2023 **The Graduate School - Graduate Student Council**, *Augusta University*.
Representative of School of Computer and Cyber Sciences.

Seminars, Summer & Winter Schools

2022 **Programming Languages Mentoring Workshop**, *PLMW @ PLDI 2022*, San Diego, CA, USA, June 13–14, 2022.

2021 **Static Analyses of Program Flows: Types and Certificate for Complexity**, *Dagstuhl Seminar 21453*, Germany, November 7–12, 2021.

2021 **Oregon Programming Languages Summer School**, *on Foundations of Programming and Security*, virtual, June 14–26, 2021.

2021 **Midlands Graduate School**, *in the Foundations of Computing Science*, virtual, April 12–16, 2021.

Industry Experience

2020–2021 **Senior Consultant**, *Rural Sourcing Inc.*, Augusta, GA, front-end web application development.
2018–2019 **Android Developer**, *TaxSlayer*, Augusta, GA, mobile application design and development.
2014–2018 **Software Developer**, *TaxSlayer*, Augusta, GA, full stack web application design and development.

Awards

2022 **Student Research Program**, $1000 – awarded by Provost's office and the Translational Research Program of the Department of Medicine, Medical College of Georgia at Augusta University.

2022 **Programming Languages Mentoring Workshop scholarship**, awarded by ACM SIGPLAN.
To attend PLMW @ PLDI 2022 and the PLDI'22 conference, in San Diego, California.

2022 **Excellence in Research - Computer & Cyber Sciences**, $100 – awarded by The Graduate School.
For presentation at Augusta University 37th Annual Graduate Research Day.

2021 **VMCAI 2022 Student Travel Fellowship**, $1500 – awarded by the VMCAI PC.
To attend Verification, Model Checking, and Abstract Interpretation conference in Philadelphia, Pennsylvania.

2015 **Grace Hopper Scholarship**, awarded by Georgia Institute of Technology.
To attend Grace Hopper Celebration of Women in Computing conference in Houston, Texas.

2014 **Outstanding Computer Science Student Award**, awarded by Augusta University.
Awarded annually to one graduating student for academic excellence.

2013 **Savannah River Scholars Program (SRSP) Scholarship**, $7800 – awarded by Augusta University, funded by National Science Foundation.

Languages

English, Finnish