

Neea Rusch

Curriculum vitae

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🔗 nkrusch.github.io

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 2020, fall 2020, spring 2021, summer 2021, fall 2021.
2019–2019 **CSCI 1200 - Introduction to Computers and Programming**, *Instructor*, Augusta University.
Taught in spring 2019 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.

Academic Service

- PC Member **Artifact Evaluation Committee (AEC)**.
2023 PLDI – Programming Language Design and Implementation.
2023 COORDINATION – International Conference on Coordination Models and Languages.
2023 ECOOP – European Conference on Object-Oriented Programming.
2023 PPOPP – Principles and Practice of Parallel Programming.
2022 APLAS – Asian Symposium on Programming Languages and Systems.
2022 ICFP – International Conference on Functional Programming.
2022 PLDI – Programming Language Design and Implementation.

Talks & Presentations

- 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*.

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.

Awards

- 2022 **Student Research Program**, awarded by Provost's office and the Translational Research Program of the Department of Medicine, Medical College of Georgia at Augusta University, Fall'22.
\$1000 for dissertation research.
2022 **Programming Languages Mentoring Workshop scholarship**, awarded by ACM SIGPLAN.
To attend PLMW @ PLDI 2022 and the PLDI'22 conference, in San Diego, CA, USA.
2022 **Excellence in Research - Computer & Cyber Sciences**, awarded by The Graduate School.
\$100 for presentation at Augusta University 37th Annual Graduate Research Day.
2021 **VMCAI 2022 Student Travel Fellowship**, awarded by the VMCAI PC.
\$1500 for attending VMCAI'22 conference in Philadelphia, PA, USA.
2015 **Grace Hopper Scholarship**, awarded by Georgia Institute of Technology.
To attend Grace Hopper Celebration of Women in Computing GHC'15 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**, awarded by Augusta University.
\$7800 stipend funded by National Science Foundation.

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.

University Service

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

Languages

English, Finnish