
Education

- 2018- **PhD Student in Computer Science**, *Max Planck Institute for Security and Privacy*, Bochum, Germany
Supervisor: Cătălin Hrițcu
Subject: Secure Compilation
Started at Inria Paris, France, then moved with advisor to Germany
- 2016-2018 **Master's Degree in Computer Science**, *Université Rennes 1*
Research in Computer Science Specialization
- 2015-2018 **Magistère d'Informatique**, *École Normale Supérieure de Rennes*
Three-year program focused on scientific research
- 2015-2016 **Bachelor's degree in Computer Science**, *University Rennes 1*
L3 Research and Innovation, Computer Science
- 2012-2015 **"Classe préparatoire aux grandes écoles"**, *Lycée Camille Guérin*, Poitiers
Two year program in mathematics, physics and computer science preparing for a national competitive exam.
Equivalent to the first two years of a bachelor's degree

Work Experience

- February— **Research internship**, *Prosecco Team, Inria Paris*, Paris, France
July 2018 Internship under the supervision of Cătălin Hrițcu.
Subject: "A Trace-based Proof Technique for Secure Compilation"
- June—August **Research internship**, *Logic and semantics group, Aarhus University*, Denmark
2017 Internship under the supervision of Aslan Askarov.
Subject: information-flow security
- May—July **Research internship**, *Team SUMO, Inria Rennes*, Rennes, France
2016 Two-months internship under the supervision of Ocan Sankur in team SUMO (Inria Rennes)
Title: Games with hierarchical objectives

Publications at Conferences

- 2024 Jérémy Thibault, Roberto Blanco, Dongjae Lee, Sven Argo, Arthur Azevedo de Amorim, Aina Linn Georges, Catalin Hritcu, and Andrew Tolmach (2024). "SECOMP: Formally Secure Compilation of Compartmentalized C Programs". In: Accepted at CCS'24 (October 2024). arXiv: 2401.16277 [cs.PL].
- 2022 Akram El-Korashy, Roberto Blanco, Jérémy Thibault, Adrien Durier, Deepak Garg, and Catalin Hritcu (2022). "SecurePtrs: Proving Secure Compilation with Data-Flow Back-Translation and Turn-Taking Simulation". In: *35th IEEE Computer Security Foundations Symposium, CSF 2022, Haifa, Israel, August 7-10, 2022*. IEEE, pp. 64-79. DOI: 10.1109/CSF54842.2022.9919680. URL: <https://doi.org/10.1109/CSF54842.2022.9919680>.
- 2020 Carmine Abate, Roberto Blanco, Ștefan Ciobâcă, Adrien Durier, Deepak Garg, Catalin Hritcu, Marco Patrignani, Éric Tanter, and Jérémy Thibault (2020). "Trace-Relating Compiler Correctness and Secure Compilation". In: *Programming Languages and Systems - 29th European Symposium on Programming, ESOP 2020, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2020, Dublin, Ireland, April 25-30, 2020, Proceedings*. Ed. by Peter Müller. Vol. 12075. Lecture Notes in Computer Science. Springer, pp. 1-28. DOI: 10.1007/978-3-030-44914-8_1. URL: https://doi.org/10.1007/978-3-030-44914-8_1.

- 2019 Carmine Abate, Roberto Blanco, Deepak Garg, Catalin Hritcu, Marco Patrignani, and Jérémy Thibault (2019). “Journey Beyond Full Abstraction: Exploring Robust Property Preservation for Secure Compilation”. In: *32nd IEEE Computer Security Foundations Symposium, CSF 2019, Hoboken, NJ, USA, June 25-28, 2019*. IEEE, pp. 256–271. DOI: 10.1109/CSF.2019.00025. URL: <https://doi.org/10.1109/CSF.2019.00025>.

Publications in Journals

- 2021 Carmine Abate, Roberto Blanco, Ștefan Ciobâcă, Adrien Durier, Deepak Garg, Catalin Hritcu, Marco Patrignani, Éric Tanter, and Jérémy Thibault (2021). “An Extended Account of Trace-relating Compiler Correctness and Secure Compilation”. In: *ACM Trans. Program. Lang. Syst.* 43.4, 14:1–14:48. DOI: 10.1145/3460860. URL: <https://doi.org/10.1145/3460860>.

Informal and Work in Progress

- 2019 Carmine Abate, Arthur Azevedo de Amorim, Roberto Blanco, Ana Nora Evans, Guglielmo Fachini, Catalin Hritcu, Théo Laurent, Benjamin C. Pierce, Marco Stronati, Jérémy Thibault, and Andrew Tolmach (2019). *When Good Components Go Bad: Formally Secure Compilation Despite Dynamic Compromise*. arXiv: 1802.00588 [cs.CR].

Awards

- CSF’19 **Distinguished Paper Award at CSF 2019 (Computer Security Foundations Symposium)**
For our paper *Journey Beyond Full Abstraction: Exploring Robust Property Preservation for Secure Compilation*
- ESOP’20 **Nominated for the Best Paper Award at ETAPS 2020 (European Joint Conferences on Theory and Practice of Software)**
For our paper *Trace-Relating Compiler Correctness and Secure Compilation*

Teaching

Foundations of Programming Languages, Verification, and Security, Winter Semester 2023-2024, Ruhr Universität Bochum, Bochum, Germany

Teaching Assistant

Teaching based on the second volume of Software Foundations

Writing and Verifying Functional Programs in Coq, 24-31 August 2019 at INSA, Lyon, France

Summer School on Cryptography, Blockchain, and Program Verification, Mathinfoly 2019

Helped adapting the course material, and conducted lab sessions

Service

- OOPSLA 2024 **Artifact evaluation committee member**
- POPL 2024 **Sub-reviewer**
- POPL 2023 **Artifact evaluation committee member**
- POPL 2023 **Student Volunteer**
- Journals **Sub-reviewer**
RV, JFP

Languages

- French **Native**
- English **Fluent**
- German **Beginner**