

Marcel Ullrich

Curriculum Vitae

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Education

- since 2021 **PhD student**, *Compiler Design Lab at Saarland University, Saarbrücken.*
- 2020-2021 **Doctoral Preparatory Phase**, *Graduate Center of Computer Science, Saarland University.*
- 2017-2020 **Bachelor of Science**, *Saarland University, Saarbrücken.*
- 2009–2017 **Abitur**, *Georg-Cantor-Gymnasium, Halle, Sachsen-Anhalt.*

Bachelor Thesis

- Title *Generating induction principles in MetaCoq*
- Advisor Yannick Forster
- Supervisor Professor Gert Smolka

Activities

Academic Activities

- 2021 **Coach and Organizer.**
Mathematik-Vorkurs der Informatik (honorary)
- 2021 **Teaching Assistant.**
Artificial Intelligence
- 2020-2021 **Teaching Assistant.**
Grundzüge Algorithmen und Datenstrukturen
- 2020 **Coach and Lecturer.**
Mathematik-Vorkurs der Informatik (honorary)
- 2020 **Teaching Assistant.**
Systemarchitektur
- 2019-2020 **Teaching Assistant.**
Theoretische Informatik
- 2019 **Coach and Lecturer.**
Mathematik-Vorkurs der Informatik (honorary)
- 2019 **HiWi Skydeck Department deutsche Bahn.**
- 2019 **Teaching Assistant.**
Introduction to Computational Logic

2018-2019 **Teaching Assistant.**

Programmierung 1

Scholarships and Certificates

2019- **Studienstiftung des deutschen Volkes.**

2019-2019 **Saarland-Stipendium.**

2018-2020 **Member of Bachelor Förderprogramm.**

School

2018 **Jugend forscht national competition.**

Special award of the Konrad-Zuse-Gesellschaft

„Zeichnen mit neuronalen Netzwerken - die Kunst für jeden“

2017 **Jugend forscht national competition.**

Special award of the Konrad-Zuse-Gesellschaft

„Quantenzufall mit Dioden zur verschlüsselten Datenübertragung mit neuronalen Netzwerken“

Publications

2020 Bohdan Liesnikov, Marcel Ullrich, and Yannick Forster. *Generating induction principles and subterm relations for inductive types using MetaCoq*. The Coq Workshop 2020

Skills

Languages • Latin: Latin proficiency certificate

• Englisch

• German: native

Technical • C/C++, OCaml, Gallina (Coq), Python: experienced, used in research projects, course work, and private projects

• Matlab, Verilog: used in course work

• Java, C#: used in course work and private projects

• \LaTeX : used for writing academic documents and designing slides