

DR. PHILIPP STASSEN



Dr. Philipp Stassen

* 31.01.1994 in Wiesbaden

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SKILLS

PROGRAMMING: OCaml,
Haskell, Python, Agda, Shell,
Html/CSS, LaTeX

SOFTWARE: Coq, Emacs, Git,
Iris, Mathematica, Docker

LANGUAGES

MOTHER TONGUE: German

FLUENT: English

BASIC: Spanish, Danish

CONTACT

Richard-Strauss-Str 23
81677 Munich
Germany

ABOUT ME

Computer Science PhD with a strong theoretical and mathematical background, specializing in modelling programs and algorithms with the goal to understand their operational behaviour and verify correctness. Skilled in connecting and coordinating across teams, with expertise and adaptability to contribute to a wide array of topics effectively.

EXPERTISE Programming languages, algorithms, probabilistic programming, program verification, machine learning, functional programming languages, mathematical modelling, type theories, safety and security of cyber physical systems

EXPERIENCE

PHD FELLOW

Aarhus university, Department of Computer Science

09.2020 - 06.2024

CONFERENCE TALKS

- Types for Proofs and Programs — 2022
- Workshop on the Implementation of Type Systems — 2022

TEACHING

- Teaching Assistant in Computability and Logic — 2021&2022

PUBLICATIONS

- A flexible multimodal proof assistant
- Modelling Recursion and Probabilistic Choice in Guarded Type Theory

INTERNSHIP

Airbus Defence and Space, Munich

11.2022 - 04.2023

R&D project about safety and security of modern aviation as part of the EU projects Albatros and Concordia.

I conducted the relevant research and collected functional requirements from internal and external stakeholders.

ACHIEVEMENTS

- Publication "Don't Panic! Analysing the Impact of Attacks on the Safety of Flight Management Systems" (Best paper award at DASC 2023)

EDUCATION

PHD STUDENT

Aarhus university, Department of Computer Science

09.2020 - 06.2024

THESIS Programming language semantics in modal type theories

DEFENCE Friday 9 August 2024

MASTER OF SCIENCE

Stockholm University, Mathematics

2018 - 2020

AWARD Mittag-Leffler prize for Masterthesis

BACHELOR OF SCIENCE

University Bonn, Mathematics

2014-2018