

DR. PHILIPP STASSEN



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SKILLS

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

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

LANGUAGES

MOTHER TONGUE: German
FLUENT: English
BASIC: Spanish, Danish

CONTACT

Dr. Philipp Stassen
Richard-Strauss-Str 23
81677 Munich
Germany

ABOUT ME

Computer Science PhD with a strong theoretical and mathematical background, expert in the mathematical foundations of algorithms, programs and programming languages. Skilled in connecting and coordinating across teams, with expertise and adaptability to contribute to a wide array of topics effectively. Currently preparing towards a career in ML, Data Science or Applied Science. Excited for algorithmic problem-solving and verification opportunities.

EXPERTISE Programming languages, mathematics, algorithms, machine learning,
functional programming languages, mathematical modelling, type theories

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

PROGRAMMING

- Implementation of a multimodal type checker in OCaml

TEACHING

- Teaching Assistant in Computability and Logic — 2021&2022

PUBLICATIONS

- A flexible multimodal proof assistant (TYPES 2023)
- Modelling Recursion and Probabilistic Choice in Guarded Type Theory (POPL 2025)

INTERNSHIP

Airbus Defence and Space, Munich

11.2022 - 04.2023

R&D project about safety and security of modern aviation.

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