Paul Schulte

p-schulte.github.io | paul.schulte@rwth-aachen.de | LinkedIn

Education

RWTH Aachen University Oct 2025 – present
M.Sc. Computer Science Aachen, GER

- Currently enrolled, specializing in Machine Learning, Algorithms, and Graph Theory (planned focus).

RWTH Aachen University Oct 2022 – Aug 2025
B.Sc. Computer Science Aachen, GER

- **GPA**: 1.1/1.0 (with distinction)
- **Dean's List**: Top 5% of the academic years 2022/23 and 2024/25
- **Relevant Coursework**: Elements of Machine Learning and Data Science (1.0), Data Structures and Algorithms (1.0), Computability and Complexity (1.0)
- **Accelerated completion**: finished the program in 5 out of 6 semesters
- **Final thesis**: Action Classification Through Dynamic Scene Graph Generation From Image Sequences **(Grade: 1.0)**

Aalto University Aug 2024 – Dec 2024
Semester Abroad (B.Sc. Computer Science) Espoo–Helsinki, FI

- **GPA**: 5.0/5.0
- **Relevant Coursework**: Graph Theory, Machine Learning, Competitive Programming, Distributed Algorithms

Joseph König Gymnasium Sep 2014 – Jun 2022
A-Levels, German Abitur Haltern am See, GER

- **GPA:** 1.2/1.0
- Graduated top of the year in mathematics, physics, and computer science

Research Experience

RWTH Aachen University, Chair for Machine Learning and Inference (i6) Aachen, GER
Student Research Assistant Sep 2025 – Present

- Continuing thesis work on *Action Classification Through Dynamic Scene Graph Generation From Image Sequences*
- Researching and implementing methods for dynamic scene graph generation to improve action recognition performance

Robotics Institute, Carnegie Mellon University Pittsburgh, PA, USA
Undergraduate Research Intern, Robotics Institute Summer Scholars Program May 2024 – Sep 2024

- Conducted research in Control Theory, Path Planning, and Autonomous Vehicles
- Developed a Model Predictive Control (MPC) framework enhanced with Control Barrier Functions (CBFs) to provide safety guarantees during trajectory planning
- Implemented real-time computations using JAX-Python on CPUs on F1Tenth hardware, reducing dependency on costly GPUs compared to state-of-the-art methods

Projects

Math Exercise Generator | *JavaScript, HTML, Vue.js* Sep 2023 – Oct 2023

- Developed a free-to-use linear algebra exercise generator with automatic solution generation

Report on Neuroevolution of Fixed Topologies | *RL, Python, OpenAI Gym* 2021

- Implemented neural networks from and an evolutionary algorithm from scratch
- Authored a report applying the algorithm to OpenAI Gym environments

Distinctions

DAAD Scholarship: RISE Worldwide Mar 2024

- Scholarship awarded to German Bachelor students in natural sciences and engineering for research internships abroad

German Mathematical Society Jun 2022

- Admitted as a student member in recognition of strong mathematics performance in high school

German Physical Society Jun 2022

- Admitted as a student member in recognition of high school achievements in physics and mathematics

Technical Skills

Languages: German (native), English (C1)
Programming: Python, Java, C++, C#
Tools & Platforms: LaTeX, Linux, Git, Docker