

# Paul Schulte

[p-schulte.github.io](https://p-schulte.github.io) | [paul.schulte@rwth-aachen.de](mailto:paul.schulte@rwth-aachen.de) | [LinkedIn](#)

## EDUCATION

### RWTH Aachen University

M.Sc. Computer Science

Oct 2025 – present

Aachen, GER

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

### RWTH Aachen University

B.Sc. Computer Science

Oct 2022 – Aug 2025

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

Semester Abroad (B.Sc. Computer Science)

Aug 2024 – Dec 2024

Espoo-Helsinki, FI

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

### Joseph König Gymnasium

A-Levels, German Abitur

Sep 2014 – Jun 2022

Haltern am See, GER

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

## RESEARCH EXPERIENCE

### Robotics Institute, Carnegie Mellon University

Undergraduate Research Intern, Robotics Institute Summer Scholars Program

Pittsburgh, PA, USA

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

## PROFESSIONAL EXPERIENCE

### Siemens Logistics

Software Engineering Working Student

Düsseldorf, GER

Feb 2023 – Nov 2023

- Designed and implemented new features (in C#) for a software tool supporting airport baggage handling system design
- Optimized conveyor-belt system analysis tools used worldwide, reducing computation time by up to 90%

## 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:**  $\text{\LaTeX}$ , Linux, Git, Docker