eric.billx21@gmail.com
+49 178 4593292
linkedin.com/in/ericbill21
github.com/ericbill21

Eric Tillmann Bill

EDUCATION

ETH Zürich

MSc Computer Science *2023–present*

- *GPA*: 5.5/6; graduating in February, 2026.
- *Major*: Machine Intelligence, *Minor*: Data Management.
- *Teaching assistant*: Algorithms Lab (2024).

RWTH Aachen University

BSc Computer Science *2019–2023*

- *GPA*: 1.3/4 with three Dean's List Appearances (Top 5%).
- *Thesis*: *On the Equivalence of Graph Neural Networks and the Weisfeiler-Leman Algorithm* (Report).
- *Exchange Semester*: ETH Zurich, Computer Science 2022; received full-time M.Sc. offer thereafter.
- *Teaching assistant*: Discrete Mathematical Structures (2020), Formal Systems, Security and Computer Automata (2021), Introduction to Java (2020, 2021).

Unitech International Society

Extracurricular Program *2022–2023*

- *Goal*: The program fosters engineering talent through a year-long leadership initiative featuring three experiential weeks, mentoring, academic exchange, and global corporate internships.

RESEARCH PROJECTS

Test-time disentanglement of diffusion models *2025–present*

- Accepted at ICML 2025, Workshop on Test-Time Adaptation (Paper).
- A model agnostic method to enhance subject separation and compositional alignment in text-to-image diffusion models via Jensen-Shannon divergence at test-time.

Exploring magnitude preservation and rotation modulation *2024–2025*

- *Deep Learning* course project; extended with the Data Analytics Lab, ETH (Paper).
- Applied magnitude preservation techniques to the DiT architecture, which achieve faster convergence and samples of higher quality. Investigated a new condition modulation.

EXPERIENCE

Intern at Evonik, Singapore *2024*

- Designed a generative deep learning model to predict the likelihood of on-site safety incidents.
- Filed an international patent for the tool with Evonik; application currently under review.

Intern at Mercedes Benz, Stuttgart *2022*

- Developed a reinforcement learning agent for the scheduling of body in white car production in a modular production setting. Published results in CIRP ICME 2024 (Proceedings).

HONORS

- Porsche IT Campus RWTH Aachen Scholarship *2021–2022*
- i4 FOLKS Best Seminar Paper Award (Paper) *2023*
- Winner of the Siemens Mobility Artificial Intelligence Challenge *2021*