

Christian Döring

Curriculum Vitae

Education

2023 – present
April

M.Sc. Electrical and Computer Engineering, *Technical University of Munich.*

2019 – 2023
October March

B.Sc. Electrical and Computer Engineering, *Technical University of Munich.*

Thesis Title: Evaluation of Differentiable Inverse Rendering using Multi-View RGB Data

2011 – 2019
September June



Abitur (A-Levels), *Gymnasium Bruckmühl.*

Publications

Real-time Neural Rendering of Dynamic Light Fields,

Arno Coomans, Edoardo A. Dominici, Christian Döring, Joerg H. Mueller, Jozef Hladky, Markus Steinberger

Computer Graphics Forum (EG), 2024

 Project  Paper

Work Experience

2024 – present
April

Research Working Student, *Huawei Technologies.*

- Development on Dr.Jit/Mitsuba3

2023 – 2024
August February

Research Intern, *Huawei Technologies.*

- Researched Real-time Neural Rendering algorithms
- Gained experience with Mitsuba3

2021 – 2021
July August

Embedded Systems Intern, *Aurum GmbH.*

- Developed NFC library for STM32 in C

2017 – 2017
July July

Intern, *Lauterbach GmbH.*

2017 – 2017
July July

Intern, *Electronic Theater Controls (ETC), Holzkirchen.*

Side Projects

Hephaestus-jit, Just In Time Compiler (JIT) for Vulkan, inspired by Dr.Jit. Implemented with own render graph solution. Includes cooperative matrix multiplication (KHR) and a port of tiny-cuda-nn in GLSL.

◆ Source

Vulkan-rt, Path tracer written in Rust using the screen-13 library. It supports the Disney BSDF with Next Event Estimation.

◆ Source

Mitsuba3 Experiments, Implementation of forward and differentiable path tracing algorithms in Mitsuba3, such as *ReSTIR GI* and *Large Steps in Inverse Rendering*.

Skills

Programming

- **Rust**, C/C++
- **Vulkan**, CUDA
- **Python**, Lua
- LaTeX, Typst

Languages

- German (native)
- **English** (fluent B2+/C1 from Abitur)