# Christian Döring

*Curriculum Vitae*

## Education

2023 April – present

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

2019 October – 2023 March

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

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

2011 September – 2019 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 Formum (EG), 2024

Project Paper

## Work Experience

2025 April – present

**Research Intern,** *NVIDIA Switzerland.*

- Differentiable Rendering
- Development on Dr.Jit/Mitsuba3

2024 April – 2025 April

**Research Working Student,** *Huawei Technologies.*

- Development on Dr.Jit/Mitsuba3

2023 August – 2024 February

**Research Intern,** *Huawei Technologies.*

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

2021 July – 2021 August

**Embeded Systems Intern,** *Aurum GmbH.*

- Developed NFC library for STM32 in C

2017 July – 2017 July

**Intern,** *Lauterbach GmbH.*

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2017 July – 2017 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)

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