



# Markus Leipe

*Curriculum Vitae*

## Education

- 02/2023– **PhD student**, *Fraunhofer IOF, Friedrich-Schiller-Universität Jena & Max Planck School of Photonics*, Thesis topics: free-space optical communication, satellite-based quantum communication, high-brightness entangled photon sources.
- 10/2019– **M.Sc. Physics**, *Friedrich-Schiller-Universität Jena, Optics Track*, Master's Thesis title: Pulsed SHG Source for Quantum Technology Applications, Supervisors: Prof. Andreas Tünnermann, Dr. Fabian Steinlechner.
- 09/2020– **ERASMUS+ exchange year**, *Technische Universiteit Delft*.  
08/2021
- 10/2016– **B.Sc. Physics**, *Friedrich-Schiller-Universität Jena*, Final grade: 2.0. Bachelor's Thesis: 09/2019 Realization of Short-Wavelength Tm-doped Fiber Lasers (Grade 1.0); Supervisor: Prof. Jens Limpert.
- 09/2008– **Abitur**, *Gymnasium "Am Lindenbergs" Ilmenau*, Final grade 1.0.  
07/2016

## Internships and experience

- 2021-2023 **Scientific assistant at Fraunhofer IOF, Jena**, Emerging Technologies Group, Optical Quantum Technologies.
- 2020 **Scientific assistant in Fiber & Waveguide Lasers Group**, Group leader: Prof. Jens Limpert.
- 2018 **Internship in Fiber & Waveguide Lasers Group**, Group leader: Prof. Jens Limpert.
- 2018 **TA for Theoretical Mechanics**, Lecturer: Prof. Holger Gies.
- 2018 **Assistant for the Physical-Astronomical Faculty, FSU Jena**, Public relations, website management & event organization.
- 2018, 2019 **Mentor for freshman students**.

## Personal Details

- Date of Birth 28.08.1998  
Place of Birth Ilmenau, Thuringia  
Nationality German