Curriculum Vitae

Name:	Dr. Qingfeng Li
Date/place of birth:	25.06.1991 in Hubei, China
Marital status:	Married
Address:	Schüffnerstra. 15, 09130 Chemnitz
Tel.:	+49 151 64105436
Email:	liqingfeng06@gmail.com
Publication list:	Google Scholar

PRACTICAL EXPERIENCE

since 04/2022 — Process Development

3D-Micromac AG (Chemnitz, DE)

- System architecture and process development in the field of laser processing, especially in the semiconductor sector (SiC, GaN and microLED). Direct contact and co-development with top-tier customers (TecDAX or Nasdaq100 indexed).
- Simulation and optimisation of the optical beam path for laser processing systems with Zemax, Python and MATLAB.

04/2019 - 04/2022 — Postdoc

Friedrich-Schiller-Universität Jena, Institut für Angewandte Physik (Jena, DE)

- Developed the first femtosecond laser-based glass/silicon-to-metal welding system (patented).
- Femtosecond laser direct writing of nanograting-based optical quantum gates on a chip.
- Development of a flexible, fast and benchmarked vector model algorithm for the simulation of optical propagation. Creation of an open-source toolkit based on the algorithm, supported by Zemax and MATLAB.

EDUCATION

10/2015 – 01/2019 — PhD in Physics, Aix-Marseille University, France

- Title of the dissertation: "Laser-induced forward transfer for digital 3D-nanoprinting."
- Winner of the Aix-Marseille University Best Thesis Prize (one of 16 winners out of 3300 doctoral students from 113 research units).

10/2013 – 10/2015 Master of Science in Optics and Photonics, EUROPHOTONICS Erasmus Mundus Joint Master's Programme

- Double degree: Karlsruhe Institute of Technology (DE) and Aix-Marseille University (FR).
- Thesis: "Development of quantitative phase microscopy for the analysis of silicon waveguides" (grade 1.0).

FURTHER TRAINING

10/2019 – 02/2020 Certified training "Optical Design with Zemax for PhD"

Institut für Angewandte Physik, Friedrich-Schiller-Universität Jena (Trainer: Prof. Herbert Gross)

10/2022 Learning-Path: "Becoming a Six Sigma Green Belt"

LinkedIn Learning (Online)

VOLUNTARY WORK FOR THE OPTICS COMMUNITY

since 2021 Creator of an open-source project for optical simulation

https://github.com/QF06/InFocus

since 2021 Editor for Fontier in Physics

https://www.frontiersin.org/research-topics/29574/advances-in-laser-micro-processing-and-applications

since 2016 Recognised reviewer for peer-reviewed journals, e.g. Optics Letter, Optics Express, Applied Optics etc.

since 2019 Influencers in the optics community and Member of OPTICA

https://www.zemax.com/blogs/news/photonics-and-applied-physics-labs-at-university-of-jena-use-opticstudio-to-gain-precision-in-ultrafast-bulk-laser-processing

ADDITIONAL KNOWLEDGE

Languages: Chinese - mother tongue
English, German - fluent in spoken and written
French - solid basic knowledge

Software: Opticstudio Zemax, Comsol Multiphysicis
MatLab, Git, Python, TensorFlow Latex, MS Excel, MS Word

INTERESTS

Bodyfit, Ski, DIY, Camping