

# Prof. Dr.-Ing. Franz Kärtner

## CV

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| Since 2024 | Director of Photon Science at DESY (interim)  |
| Since 2011 | Professor of Physics, University of Hamburg and Head Ultrafast Optics and X-Rays Division, DESY and Center for Free-Electron Laser Science (CFEL) |
| 2011-2015  | Adjunct Professor Electrical Engineering and Computer Science, MIT, USA   |
| 2005-2010  | Professor Electrical Engineering and Computer Science, MIT, USA   |
| 2001-2005  | Associate Professor Electrical Engineering and Computer Science, MIT, USA   |
| 1999-2001  | Professor Electrical Engineering and Information Technology, KIT, Karlsruhe   |
| 1998-1999  | Visiting Professor Electrical Engineering and Computer Science, MIT, USA  |
| 1993-1997  | Habilitation in Experimental Physics, ETH Zurich, Switzerland   |
| 1991-1993  | Feodor-Lynen Fellow of the Alexander von Humboldt-Foundation, MIT, USA  |
| 1989-1991  | Postdoctoral Associate, Technical University of Munich  |
| 1986-1989  | PhD Microwave Engineering, Technical University of Munich   |
| 1985-1986  | Diploma in Microwave Engineering, Technical University of Munich  |
| 1981-1985  | Student Dept. of Electrical Engineering, Technical University of Munich   |
| 1979-1980  | Student Dept. of Power Engineering, University of Applied Sciences, Regensburg  |

## Research Fields

Optics, lasers and integrated optics, photonic microwave sources, ultrafast laser and X-ray physics: femtosecond synchronization of large-scale research facilities, terahertz accelerators and compact X-ray sources.

Publications: over 450 in peer-reviewed journals

## Memberships

- Institute of Electrical and Electronic Engineers (IEEE)
- Optical Society of America (OSA)
- International Society for Optics and Photonics (SPIE)
- American Physical Society (APS)
- Deutsche Physikalische Gesellschaft (DPG)

## Preise und Auszeichnungen

- UNIPRENEURS Award for his combination of academic achievement and entrepreneurial spirit (2023)
- IEEE Laser Instrumentation Award for development and commercialization of femtosecond pulsed optical timing distribution systems for large-scale science facilities (2022)
- IEEE Fellow for contributions to ultrafast optics (2009)
- OSA Fellow for pioneering contributions to femtosecond pulse generation and ultrafast nonlinear optics (2008)