

## Nahid Talebi – CV

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**DOB** | 03.03.1981  
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[https://scholar.google.de/citations?user=oBytU\\_gAAAAJ&hl=de](https://scholar.google.de/citations?user=oBytU_gAAAAJ&hl=de)

### PROFESSIONAL EXPERIENCE

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- 2019 – present** Director and W2 Professor of Experimental Physics, Christian Albrechts University, Kiel, Germany
- 2015 – 2020** Group Leader, Max Planck Institute for Solid State Research, Stuttgart, Germany
- 2011 – 2014** Max-Planck-Institute for Intelligent Systems, Stuttgart, Alexander-von-Humboldt Research Fellow

### EDUCATION

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- 2017 – 2020** Habilitation at the University of Stuttgart, Germany, Mentor: Prof. Dr. Harald Giessen
- 2010 – 2011** Leave of absence from the University of Tehran, to the Max-Planck Institute for Solid State Research, Stuttgart, Germany, Mentor: Dr. Habil. Ralf Vogelgesang
- 2008 – 2011** Doctoral Degree in Electrical Engineering, School of Electrical and Computer Engineering, University of Tehran, Iran, Supervisor: Prof. Dr. Mahmoud Shahabadi
- 2007** Master Degree in Electrical Engineering, School of Electrical and Computer Engineering, University of Tehran, Iran. Supervisor: Prof. Dr. Mahmoud Shahabadi

### MAIN AREAS OF RESEARCH

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- Theoretical Electrodynamics • Quantum Mechanical Maxwell-Schrödinger and Maxwell-Dirac Simulations • Electron-Light Interactions • Plasmonics • Photonics

## Nahid Talebi – Most Important Scientific Achievements

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### AWARDS & HONORS:

1. Cover Art of the Nano Letters Journal <https://pubs.acs.org/toc/nalefd/20/8>
2. 2019 Springer Nature Research Highlights in Physics for book chapters <https://www.springernature.com/gp/researchers/campaigns/highlights/physics>

3. ERC Starting Grant NanoBeam
4. Research Highlight 2017 of the Journal of Optics for review papers (2017)  
<https://iopscience.iop.org/journal/2040-8986/page/Highlights-of-2017>
5. Second position in the associate professorship for Oxford University (2019)
6. W2 (Associate) professorship and the directorship of the Institute for Experimental and Applied Physics of the Christian Albrechts University, Kiel, Germany (2019)
7. Max-Planck Research Fellowship for two years (2015)
8. Alexander von Humboldt research fellowship (2012)
9. Outstanding paper award of the European Microscopy Society in the category of Materials Science (2012)
10. Lindau Nobel Laureate meeting (2012)
11. Max-Planck Research Fellowship as a visiting student (2010)
12. Accepted as a Ph.D. student at the University of Tehran by the rules and regulations of Special Talented Student admissions, without attending the entrance examination
13. Rector's list of outstanding B.Sc. students, best student award (3 years)

#### THIRD-PARTY FUNDING

1. FET Proactive Research Research and Innovation action: Topic FETPROACT-EIC-07-2020 Grant Electron beams enhancing analytical microscopy (5Mio€) (EBEAM) (2020) (Co-applications with other European Centers).
2. DFG funding (498 k€) for high-performance computing centre of the Kiel University (Co-application with other groups and institutes of the university) (2020)
3. DFG funding for State Major Instrumentation (399k€) (2002)
4. European Research ERC Starting Grant NanoBeam (1.5 Mio€) (2018)
5. Alexander von Humboldt Fellowship (2012)

#### SERVICES TO THE SCIENTIFIC COMMUNITY

6. Two patent applications " Method and device for time-resolved pump-probe electron microscopy," EP Patent EP 2991097 B1 (2016), and "Determining an electromagnetic response of a sample," US Patent App. 14/153,262 (2014)
7. Editor of the Journal of Optical Society of America B (2020)
8. Reviewer and monitoring agent of the H2020 programs of the European research council
9. Review panel member of the Optical Society of America (OSA), Institute of Physics (IoP), IEEE International Conference on Electronics Design, Systems and Applications, American Chemical Society (ACS) Journals, Nature, Science, American Office of Basic Energy Sciences, Department of Energy, Advanced Materials, Science, Nature
10. Chairing sessions in CLEO 2014, SPIE 2015, EBSN 2019

#### INVITED TALKS (40 IN TOTAL)

- "Ultrafast Light-Induced Amplitude and Phase Modulations of Free-Electron Wavepackets," Physics Colloquium, University of Duisburg-Essen, Germany, 02 June 2020.
- "Electron-light interactions beyond adiabatic approximations: on the relevance of selection rules," MetaNano 2020, Tbilisi, Georgia September 2020.
- "Structured light in interaction of electron beams with metasurfaces", MetaNano 2020, Tbilisi, Georgia September 2020.
- "Electron-Light Interactions from the Semi-Classical Standpoint" Fritz Haber Institute, Max Planck Society, 16 Dec. 2019, Berlin, Germany.
- "Electron-Light Interactions at the nanoscale: Plasmon-mapping with Electrons and Electron-Beam Shaping with Plasmons," ICFO, 17<sup>th</sup> Oct. 2019, Barcelona, Spain.
- "Photon-induced time-resolved electron holography and spectroscopy with slow electrons," Electron Beam Spectroscopy for Slow Electrons, EBSN 2019, 16-18 Sep. 2019, Orsay, France.

- “Coherent control of single electron wavepackets with light and nanostructures,” Q-SORT 2019: International Conference on Quantum Imaging and Electron Beam Shaping, 2-5 July 2019, Munich, Germany.
- “Nanooptics with slow and fast electrons,” Workshop for plasmonic resonators and applications, 4-5 July, 2019, Ulm, Germany.
- “Electrons interacting with light and nanostructures: towards quantum coherent control with electrons,” Condensed Matter Physics Seminar, 6<sup>th</sup> June 2019, Oxford, UK.
- “Toroidal Moments Probed with Electron beams,” MetaNano2019: IV International Conference on Metamaterials and Nanophotonics, 15-19 July 2019, St. Petersburg, Russia.
- “Electron energy-loss spectroscopy of hyperbolic polaritons,” The 7<sup>th</sup> International Topical Meeting on Nanophotonics and Metamaterials NanoMeta 2019, 3<sup>rd</sup> to 6<sup>th</sup> Jan. 2019, Seefeld, Austria.