

# Curriculum Vitae - Dr. Tobias Heindel

E-Mail: tobias.heindel@tu-berlin.de



## Personal Data

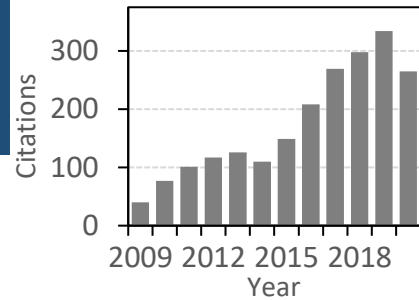
Name Dr. Tobias Udo Heindel  
Date/Place of Birth 22 April 1984 in Bad Windsheim, Germany  
Family Status married, two children

## Academic Career

- since 08/2018 **BMBF Junior Research Group Leader**  
Group *Quantum Communication Systems* → [Website](#)  
Project *QuSecure* (BMBF „Quantum Futur“) → [Project profile](#)  
Technische Universität Berlin, Institute of Solid-State Physics
- 11/2014 – 07/2018 **Postdoctoral Researcher**  
Technische Universität Berlin, Institute of Solid-State Physics  
Group *Optoelectronics & Quantum Devices*  
Prof. Dr. Stephan Reitzenstein
- 10/2014 **PhD in Physics (Dr. rer. nat)**  
Julius-Maximilians-Universität Würzburg,  
Technische Physik  
Thesis title: „Electrically Pumped Quantum-Dot Single-Photon Sources for Quantum Communication“ → [Weblink](#)
- 04/2012 – 10/2014 **Research Associate**  
Set-up of quantum optics laboratories and experiments  
Technische Universität Berlin, Institute of Solid-State Physics  
Group *Optoelectronics & Quantum Devices*  
Prof. Dr. Stephan Reitzenstein
- 02/2009 – 03/2012 **PhD Student**  
Development/optimization of electrically driven quantum light sources and implementations of quantum communication  
Julius-Maximilians-Universität Würzburg  
Chair of Technische Physik  
Prof. Dr. Dr. h.c. Alfred Forchel
- 09/2003 – 02/2009 **Studies of Physics**  
Julius-Maximilians-Universität Würzburg  
Faculty of Physics and Astronomy  
**Degree: Diplom-Physiker Univ.**
- 06/2003 **High school graduation (German “Abitur”)**  
Gymnasium Scheinfeld

# Curriculum Vitae - Dr. Tobias Heindel

E-Mail: tobias.heindel@tu-berlin.de



## Publication Statistics

Refereed Journal Papers **52** (2x Nature Commun., 1x npj Quantum Inf., 1x PRL, 16x APL...)  
 Invited Talks **25** (11 at Conferences, 14 at Symposia, Graduate Schools, etc.)  
 Book Chapters **3** (Springer 2017, Springer 2020)  
 Patents **1** (Optoelectronic Device: EP3088927A1, US9599782B2)  
*h*-Index **25** (Google Scholar → [Profile](#))  
 Citations **2107**(Google Scholar)

## Most Cited Papers

206 Citations M. Gschrey et al., *Nature Communications* **6**, 7662 (2015)  
 201 Citations T. Heindel et al., *Applied Physics Letters* **96**, 011107 (2010)  
 135 Citations A. Thoma et al., *Physical Review Letters* **116**, 033601 (2016)  
 111 Citations C. Schneider et al., *Applied Physics Letters* **94**, 111111 (2009)  
 101 Citations C. Schneider et al., *Nanotechnology* **20**, 434012 (2009)

## Third-Party Funding

08/2018 – 08/2023 **BMBF Junior Research Group (Budget: 2.2 Million Euro)**  
 Project: QuSecure - Quantum Communication Systems Based on Single-Photon Sources, Grant No.: 13N14876  
 04/2017 **Short-term Scientific Mission (STSM) - COST Action MP1403**  
 Project: Exploring the Dark Exciton Spin Qubit in Deterministic Quantum Dot Microlenses → [APL Photonics 2, 121343 \(2017\)](#)  
 Location: Technion (Haifa, Israel), Group of Prof. David Gershoni  
 Grant No.: COST-STSM-ECOST-STSM-MP1403-020417-082172

## Awards/Grants

06/2020 **Karl-Scheel-Prize 2020** → [Link](#)  
 by the Physical Society in Berlin (PGzB)  
 07/2018 **BMBF Junior Research Group**  
 Funding initiative “Quantum Futur”, Budget: 2.2 Million Euro  
 07/2003 **Award of the VDE/VDI**  
 Erlangen/Nürnberg

## Scientific Missions

Germany **Ludwig-Maximilians-Universität München**  
 Group of Prof. Harald Weinfurter, Winter 2012  
 Abroad **Technion – Israel Institute of Technology, Haifa, Israel**  
 Group of Prof. David Gershoni, 2014/2015/2017

## Reviewing Activities

for Journals ***Nature Communications, npj Quantum Information, Nanoletters, Science Advances, Scientific Reports, Applied Physics Letters, Microelectronic Engineering, Review of Scientific Instruments, Advanced Quantum Technologies, Optik - International Journal for Light and Electron Optics***  
 for Institutions ***National Science Centre Poland (NCN)***

# Curriculum Vitae - Dr. Tobias Heindel

E-Mail: tobias.heindel@tu-berlin.de



## Conference Organisation

- 11/2020 **Organizer** (with Prof. Eleni Diamanti and Dr. Simone Luca Portalupi)  
[WE-Heraeus-Seminar on „Photonic Quantum Technologies“](#),  
Bad Honnef (Germany), November 16-19, 2020
- 12/2019 **Organizing Committee Member**  
„EQEP 7 - Engineering of Quantum Emitter Properties“, Berlin  
(Germany), December 11-13, 2019
- 09/2018 **Organizing Committee Member**  
„NOEKS 14 - Nonlinear Optics and Excitation Kinetics in  
Semiconductors“, Berlin (Germany), September 23-27, 2018
- 06/2018 **Special Session Organizer**  
“SP16: Quantum Nanophotonics for Applications in Quantum  
Information Science”, META2018, Marseille (France), June 2018
- 08/2016 **Local Organizing Committee Member**  
„EMN-Meeting on Quantum Communication and Quantum  
Imaging“, Berlin (Germany), August 23-26, 2016
- 11/2015 **Programme Committee Member**  
„ESR-Workshop on Nanoscale Quantum Optics“,  
Malta, November 15-18, 2015

## Scientific Policy

- since 03/2020 **Chairman and Founding Member**  
Working group „[AG youLeaP – Young Leaders in Physics](#)“ of the  
German Physical Society (DPG)
- since Summer 2019 **Founding/Junior Faculty Member**  
Graduate School “[Berlin School of Optical Sciences and Quantum  
Technologies \(BOS.QT\)](#)” of the three universities in Berlin
- since 12/2018 **Spokesperson and Founding Member**  
„[Young Academics Network \(YAN\)](#)“ for the networking and  
representation of Junior Scholars at TU Berlin

## Memberships

- from 2019/2020 **Graduate School “Berlin School of Optical Sciences and  
Quantum Technologies (BOS.QT)”**
- 05/2012 – 12/2014 **„School of Nanophotonics“ of CRC 787**
- since 2012 **Physical Society in Berlin (PGzB)**
- since 2003 **German Physical Society (DPG)**