

Helena Reichlova

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WORK EXPERIENCE

2018 - present Researcher + Lecturer, Technical University Dresden, Germany
2012 - 2013 Researcher, Ohio State University, Columbus, USA
2012 - present Researcher, Institute of Physics ASCR Praha, Czech Republic

EDUCATION

2010 - 2015 Ph.D. degree Spintronics and Nanoelectronics
Charles University in Prague, Faculty of Mathematics and Physics, Prague, CR and
Institute of Physics ASCR, v.v.i., Cukrovarnicka 10, 162 53 Prague 6, CR
2008 - 2010 Quantum Optics and Optoelectronics, Charles University in Prague,
Faculty of Mathematics and Physics, Prague, CR
Diploma thesis: *Ultrafast laser spectroscopy of semiconductors*
2008 - 2009 Exchange Program Erasmus, Universite de Louis Pasteur, Strasbourg, France
Stage in the Group of P. Gilliot, Universite de Louis Pasteur, Strasbourg, France
Raport du stage: *Optical gain and the DFL cavity experiment in Si based nanostructures*
2005 - 2008 Physics, Charles University in Prague, Faculty of Mathematics and Physics, Prague, CR
Bachelor's thesis: *Laser pulse wavelength conversion by nonlinear optics*

Honors

2020 Christiane Nüsslein-Volhard Fellowship
2019 Lindau Nobel Laureate Meeting Master Class speaker
2016 Price of Czech Ministry of Education
2016 Best PhD thesis, Czech national price: Ceska hlava Doctorandus
2016 1st price Milan Odehnal competition for young physicists
2015 EPS Best Poster Presentation, Krakow
2014 EMRS Best Presentation award, Warsaw
2012 Fulbright Fellowship (Ohio State University IX 2012 - VII 2013)
project: *Developing a tool to detect injected spins by Magnetic Force Probe*
2011 MORIS 2011 Best Poster Award
2010 1st price in the Competition of the Spectroscopic Society of J.M.Marci

Area of Professional Interest: Coupling of spin, heat and charge in materials with non-trivial spin texture

Research Experience:

2018 - present Magneto-thermal transport in topological materials, lithography
2011- 2017 Antiferromagnetic spintronics, magneto-transport, lithography
2011-2014 New materials for spintronics, magnetometry, transport
2012-2013 Building spin imaging setup based on atomic force microscopy
2010-2011 GaMnAs, ultrafast magneto-optics spectroscopy
2009 Si nanostructures, optical gain measurement, DFL cavity construction