

## Contact details

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## Professional experience

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- Since 07/2015 Employee at Abacus Laser
- Development of customer-specific solutions in the areas of laser and optical remote sensing
- 07/2011 – 02/2014 Scientific assistant, Georg-August-Universität Göttingen, project „SolarWinS“ ([www.solarwins.de](http://www.solarwins.de)):
- Development of a model: accumulation of metal impurities at grain boundaries in silicon
  - Finite element simulations with COMSOL Multiphysics
  - Cooperations (within the project and external)
  - Documentation and presentation of results
  - Teaching
- 09/2008 – 06/2011 Scientific assistant, Georg-August-Universität Göttingen, projects „SolarFocus“ and „Komplexe Strukturen in kondensierter Materie“:
- Preparation of silicon samples: grinding, polishing, chemical cleaning, vacuum evaporation system
  - Analyses with scanning electron microscope (SEM), transmission electron microscope (TEM), focused ion beam (FIB), electron beam induced current (EBIC)
  - Installation of an EBIC system
  - Development of a new technique to investigate defects in solar cells
  - 01/2010 – 03/2011 Parental leave
- 05/2008 – 08/2008 Scientific assistant, Laser-Laboratorium Göttingen e.V., project „Proklamo“:
- Investigations on plasma cleaning of surfaces during laser ablation
  - Analyses of sample surfaces with light microscope and profilometer



## Education

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09/2008 – 09/2014	PhD thesis, Georg-August-Universität Göttingen „Metal Impurity Redistribution in Crystalline Silicon for Photovoltaic Application“ degree: <b>Dr. rer. nat.</b> (magna cum laude)
10/2004 – 12/2007	Physics studies, Georg-August-Universität Göttingen „Galaxy Transformation in Galaxy Clusters“ degree: <b>Diplom</b> (Sehr gut)
10/2002 – 09/2004	Physics studies, Christian-Albrechts-Universität zu Kiel degree: <b>Vordiplom</b> (Gut)
1995 – 2002	School, Max-Planck-Gymnasium Göttingen degree: <b>Abitur</b> (1,7)

## Languages

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English	Proficient user (Common European Framework of Reference for Languages: C2)
Spanish	Basic user (Common European Framework of Reference for Languages: A2)

## Experience abroad

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08/1999 – 07/2000	Host student in Long Beach, Mississippi, USA
08/2004 & 07/2005	Courses at language school „Barcelona Plus“ in Barcelona, Spain

## Additional skills

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Computing	Office, Origin, Maple, Matlab, Latex
Programming	Basic skills in C, Fortran, HTML
Special	Finite element method (FEM) and COMSOL Multiphysics
Laboratory	Scanning electron microscope (SEM), transmission electron microscope (TEM), focused ion beam (FIB), electron beam induced current (EBIC), chemical laboratory