

# Scientific CV

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## University Education

04/2007 - 05/2010

- Ph.D. in Physics at the Ruprecht-Karls-University Heidelberg, carried out at the Max-Planck-Institute for Nuclear Physics (MPIK; supervisor: Prof. Werner Hofmann)
- Title: "Development of an advanced  $\gamma$ /hadron separation technique and application to particular  $\gamma$ -ray sources with H.E.S.S."
- Degree: Dr. rer. nat. (mark: magna cum laude), Defence: 21.05.2010

10/2001 - 03/2007

- Physics course of study at the Ruprecht-Karls-University Heidelberg
- Degree: Diploma (mark: 1.3)

## Professional Practise

Since 03/2014

- Postdoctoral research fellow at DESY, Zeuthen

Since 03/2014

- Supervision of master and postgraduate students at DESY, Zeuthen

03/2013 - 02/2014

- Postdoctoral research fellow at the University of Leicester

03/2011 - 02/2013

- Feodor-Lynen research fellow at the Universities of Leicester and Leeds

05/2010 - 02/2011

- Postdoctoral research fellow at the MPIK, Heidelberg

03/2011 - 02/2013

- Supervision of master and postgraduate students at the Universities of Leicester and Leeds

04/2007 - 02/2011

- Supervision of diploma and postgraduate students at the MPIK, Heidelberg

## Honors and Awards

Fellowships

- Feodor-Lynen research fellowship (Leeds/Leicester 2011 – 2013)

Awards

- H.E.S.S. Prize (2015)

## Scientific Profile

### Main Areas of Research

- Non-thermal emission from colliding wind binaries, massive stellar clusters and starburst galaxies
- Analysis and interpretation of Fermi-LAT and H.E.S.S. data with focus on regions of massive star formation
- Implementation and application of multivariate analysis methods

### Key Qualifications

- Expert in simulations and analysis methods in the field of  $\gamma$ -ray astronomy
- Detailed knowledge of the concept and practical implementation of the H.E.S.S. experiment
- Basic knowledge in the analysis of radio data

### Memberships

- H.E.S.S. collaboration
- CTA consortium
- Humboldt Foundation

### Activities

- CTA Cosmic-ray science working group coordinator (since 2016)
- Leader of the H.E.S.S. transients envelope task group (2015 – 2017)
- Deputy convenor of the H.E.S.S. analysis and reconstruction working group (2013 – 2015)
- Member of the H.E.S.S. observations committee (2012 – 2013)
- Convenor of the H.E.S.S. Extended Extragalactic Objects working group (2012 – 2013)
- Organiser of the weekly astrophysics seminar at the University of Leicester (2011 – 2013)
- Organiser of the H.E.S.S. collaboration meeting in Leicester (2012)
- Reviewer of journal articles in A&A, MNRAS, ApJ and Astroparticle Physics
- Proposal reviewer for JCMT

Zeuthen, June 2017