# **Curriculum Vitae**

#### Jannik Hofestädt

born on 05/04/1986 in Munich, Germany

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91058 Erlangen, Germany

#### **Education and Positions**

03/2017 - present Postdoctoral researcher at 'Erlangen Centre for Astroparticle Physics' (ECAP), University of

Erlangen-Nürnberg

Field of research: Probing tau neutrino appearance with KM3NeT/ORCA and feasibility study

for determination of the leptonic CP-phase with Super-ORCA

10/2012 - 02/2017 Ph.D. in Physics, highest distinction summa cum laude, University of Erlangen-Nürnberg

Thesis: "Measuring the neutrino mass hierarchy with the future KM3NeT/ORCA detector",

advisor: Prof. Dr. Gisela Anton and Prof. Dr. Uli Katz

10/2009 - 04/2012 M.Sc. in Physics, average grade 1.2, University of Göttingen

Thesis: "Muon triggers for Searches for Supersymmetry in Multi-Lepton Final States with the

ATLAS Detector", advisors: Prof. Dr. Arnulf Quadt and Dr. Carsten Hensel

09/2010 - 01/2011 Exchange student (Erasmus), University of Amsterdam

Research project at NIKHEF: "Studies for low-energy muon track reconstruction with the AN-

TARES detector", advisor: Dr. Dorothea Samtleben

07/2010 - 09/2010 Student at international summer school, 'Deutsches Elektronen-Synchrotron' (DESY), Hamburg

Research project: "Study of different reference axes for secondary vertexing in DIS at ZEUS",

advisor: Dr. Achim Geiser

10/2006 - 10/2009 B.Sc. in Physics, average grade 1.5, University of Göttingen

Thesis: "Monte Carlo studies of the inverse problem: determination of the mass of the LSP with

ATLAS", advisors: Prof. Dr. Arnulf Quadt and Dr. Carsten Hensel

#### **Awards**

03/2018 Finalist (4 final nominees) for Dissertation Prize of German Physical Society (DPG) in 'Matter

and Cosmos' section

10/2017 Dissertation Prize from the Global Neutrino Network of neutrino telescopes (GNN; ~700 inter-

national scientist)

10/2017 Ohm-Prize for an excellent dissertation in physics, Department of Physics, University of Erlangen-

Nürnberg

03/2017 First best poster award, International Workshop on Neutrino Telescopes (NeuTel)

### Responsibilities in Research and University

10/2018 - present	Publication committee member of ANTARES collabortion
04/2018 - present	Analysis coordinator for first KM3NeT/ORCA data
02/2018 - present	Editorial board member for several ANTARES and KM3NeT collabortion publications
01/2015 - 01/2017	Employee representative in ECAP management, University of Erlangen-Nürnberg
10/2013 - 04/2017	Deputy employee representative in Physikalisches Institut management, University of Erlangen- Nürnberg

### **Teaching Experience**

2013 - present	Co-supervision of Bachelor and Master students
04/2018	Substitute lecturing for advanced Particle and Astroparticle Physics course

2013 - present Tutorials and lab courses for advanced physics

2009 - present Tutorials and lab courses for first-year physics courses

#### **Outreach Activities**

2013 - present Explaining physics to pupils and further public in events like:

Lange Nacht der Wissenschaften: presentation of science with experiments/models

Mädchen-und-Technik and Jugend-und-Technik: one-day laboratory visits

Marktplatz des Wissens: science expeditions on central marketplace in Erlangen

2012 - present Teilchenphysik-Masterclasses and International Masterclasses in the framework 'Netzwerk Teil-

chenwelt': One-day hands-on events at schools (14- to 19-year old students) to give insight in

topics and methods of particle physics research

2009 Physics show *Zauberhafte Physik*, University of Göttingen

Developed and performed educational experiments for children

#### **Selected Talks and Seminars**

10/2018	Summary of Parallel Sessions: Particle Physics with Neutrino Telescopes, invited talk at the Very Large Volume Neutrino Telescopes (VLVnT) conference, Dubna, Russia
08/2018	ANTARES and KM3NeT: status and perspectives, invited talk at the Astroparticle Physics in Germany workshop ("Zeuthen Meeting"), Mainz, Germany
06/2018	KM3NeT/Super-ORCA: Measuring the leptonic CP-phase with atmospheric neutrinos, contributed talk at the Advanced Workshop on Physics of Atmospheric Neutrinos (PANE), Trieste, Italy
03/2018	Measuring the neutrino mass hierarchy with the future KM3NeT/ORCA detector in the deep sea, invited talk at the Dissertation Prize Symposium of 'Matter and Cosmos' section at the spring meeting of the German physical society (DPG), Würzburg, Germany
07/2017	Measuring the neutrino mass hierarchy with KM3NeT/ORCA, contributed talk at the Topics in Astroparticle and Underground Physics (TAUP) conference, Sudbury, Canada

06/2017	KM3NeT/ORCA: neutrino physics in the deep Mediterranean Sea, seminar talk at the Particle Physics Seminar at the University of Bonn, Bonn, Germany
09/2017	Prospects for measuring the neutrino mass hierarchy with KM3NeT/ORCA, contributed talk at the European Cosmic Ray Symposium (ECRS) conference 2016, Turin, Italy
01/2014	Neutrino mass hierarchy determination using atmospheric neutrinos – ORCA status report, seminar talk at the Erlangen Centre for Astroparticle Physics, Erlangen, Germany

## **Selected Posters**

06/2018	KM3NeT/Super-ORCA: Measuring the leptonic CP-phase with atmospheric neutrinos, International Conference on Neutrino Physics and Astrophysics (Neutrino), Heidelberg, Germany
03/2017	Event reconstruction in the KM3NeT/ORCA detector, International Workshop on Neutrino Telescopes (NeuTel), Venice, Italy
07/2015	Studies of intrinsic resolution to low energy electron and muon neutrino events with neutrino telescopes and Reconstruction of shower-like neutrino events with the KM3NeT/ORCA detector, International Cosmic Ray Conference (ICRC), The Hague, Netherlands
07/2014	ORCA: a feasibility study of measuring the neutrino mass hierarchy with an underwater Cheren- kov detector within the KM3NeT framework, International Conference on High Energy Physics (ICHEP), Valencia, Spain