

Anne PEIN

PERSONAL DATA

PLACE AND DATE OF BIRTH: Achim, Germany | 14 March 1989
NATIONALITY: German
ADDRESS: Vossberg 31, 27749, Delmenhorst, Germany
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EDUCATION

AUG 2015 M.Sc. in PHYSICS, **Georg-August-Universität**, Göttingen, Germany
Final Grade: 1.1 (with distinction)
Thesis: "Sparsity Constraint for Phase Retrieval in X-Ray Propagation Imaging" | Advisor: Prof. Tim SALDITT

2013-15 Studies in PHYSICS, **Georg-August-Universität**, Göttingen, Germany

SEP 2012 B.Sc. in MATHEMATICS, **Westfälische Wilhelms-Universität**, Münster
Final Grade: 1.3 (with distinction)
Thesis: "Global and local hierarchical model reduction for the Poisson problem" | Advisor: Prof. Mario OHLBERGER

2009-12 Studies in MATHEMATICS, PHYSICS and MEDICINE, **Westfälische Wilhelms-Universität**, Münster, Germany

2008-09 Studies in PHYSICS, **Universität Bremen**, Bremen, Germany

JUN 2008 German Abitur, **Max-Planck-Gymnasium**, Delmenhorst, Germany
Final Grade: 1.1 (best result of graduating class)

PRACTICAL EXPERIENCE

JAN 2017- RESEARCH ASSISTANT
Technische Universität München, Munich, Germany

JUN-DEC 2016 RESEARCH ASSISTANT
Institute for Applied Functional Analysis, Technische Universität Berlin, Berlin, Germany

NOV-DEC 2015 VOLUNTARY WORK
Huinay Scientific Field Station, Huinay, Chile
Marine biology research station focusing on marine environment and ecosystem studies of the Chilean fjords

SEP-OCT 2015 RESEARCH ASSISTANT
Institute for X-Ray Physics, Georg-August-Universität, Göttingen, Germany

JUN-JUL 2015 RESEARCH INTERNSHIP
Institut Langevin, Paris, France

Topic: Compressed Sensing for Ultrasonic Imaging

MAY-AUG 2014 | STUDENT ASSISTANT
Georg-August-Universität, Göttingen, Germany
Teaching: Laboratory course for first year students

AUG 2013 | INTERNSHIP
German Cancer Research Center, Heidelberg, Germany
Topic: Medical Physics in Radiology

CONFERENCES, SCHOLARSHIPS AND AWARDS

- DEC 2016 Workshop: **Young Women in Harmonic Analysis and PDE** in Bonn, Germany
- NOV 2016 **Fall School on PDEs and Probability** at the **African Institute for Mathematical Sciences (AIMS)** in Mbour, Senegal; with travel grant from the **German Academic Exchange Service (DAAD)**
- JUL 2016 **Summer School: Mathematical and Numerical Methods in Image Processing** organized by the **Berlin Mathematical School (BMS)** in Berlin, Germany
- DEC 2015 Award from the **Dr. Berliner-Dr. Ungewitter-Foundation** for an outstanding Master's thesis
- MAR 2015 Poster at the **German Physical Society (DPG)** conference in Berlin, Germany; with travel grant from the **Wilhelm and Else Heraeus Foundation**
- 2013 Scholarship from the **Lower Saxony Ministry of Science and Culture**
- JUN 2008 Award from the **German Physical Society (DPG)** for excellent results during the Abitur

RESEARCH INTERESTS

Dynamical Systems, PDEs
Stochastic
Harmonic Analysis
Numerical Analysis

PUBLICATIONS

A. Pein, S. Loock, G. Plonka, and T. Salditt, "Using Sparsity Information for Iterative Phase Retrieval in X-Ray Propagation Imaging," *Opt. Express* 24, 8332-8343 (2016).

COMPUTER SKILLS

Basic Knowledge: R, C++, Python, HTML, Origin, QGIS
Advanced Knowledge: Matlab, \LaTeX , Gnuplot, Inkscape, MS Office

REFERENCES

Prof. Tim SALDITT (supervisor Master's thesis): tsaldit@gwdg.de
Prof. Mario OHLBERGER (supervisor Bachelor's thesis): ohlberger@uni-muenster.de
Prof. Laurent DAUDET (supervisor at Institut Langevin): laurent.daudet@espci.fr

LANGUAGES

GERMAN: Mother tongue
ENGLISH: Fluent
FRENCH: Intermediate (B2)
SPANISH: Intermediate (B1)

INTERESTS AND ACTIVITIES

Reading, Traveling, Languages, Cooking, Guitar, Photography, Card & Board Games, Hiking, Swimming, Nature and Conservation