

Anne PEIN

PERSONAL DATA

PLACE AND DATE OF BIRTH: Achim, Germany | 14 March 1989
NATIONALITY: German
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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=1.0, worst=6.0]

PRACTICAL EXPERIENCE

JAN 2017-	RESEARCH ASSISTANT <i>Research Group on Multiscale and Stochastic Dynamics, Technische Universität München, Munich, Germany</i> PhD student under the supervision of Prof. Christian KUEHN
JUN-DEC 2016	RESEARCH ASSISTANT <i>Institute for Applied Functional Analysis, Technische Universität Berlin, Berlin, Germany</i>
NOV-DEC 2015	VOLUNTARY WORK <i>Huinay Scientific Field Station, Huinay, Chile</i> Marine biology research station focusing on marine environment and ecosystem studies of the chilean fjords
SEP-OCT 2015	RESEARCH ASSISTANT <i>Institute for X-Ray Physics, Georg-August-Universität, Göttingen, Germany</i>

JUN-JUL 2015	RESEARCH INTERNSHIP <i>Institut Langevin</i> , Paris, France Topic: Compressed Sensing for Ultrasonic Imaging Advisor: Prof. Laurent DAUDET
AUG 2013	INTERNSHIP <i>German Cancer Research Center</i> , 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 Analysis, SPDEs
Measure Theory
Functional/Harmonic Analysis

PUBLICATIONS

F. Voigtlaender and A. Pein, "Analysis vs. synthesis sparsity for α -shearlets," arXiv:1702.03559v1 [math.FA] (2017).

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).

TEACHING

Summer term 2017	Exercise classes for <i>Dynamical Systems</i> .
Summer term 2014	<i>Laboratory course</i> for first year physics students.

COMPUTER SKILLS

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

LANGUAGES

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

MEMBERSHIP

European Women in Mathematics

INTERESTS AND ACTIVITIES

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