

# Anne PEIN

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## RESEARCH INTERESTS

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Stochastic Analysis, SPDEs | Probability Theory | Mathematical Physics

## EDUCATION

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- 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
- SEP 2012 B.Sc. in MATHEMATICS, Westfälische Wilhelms-Universität, Münster, Germany  
Final Grade: 1.3 (with distinction)  
Thesis: “Global and local hierarchical model reduction for the Poisson problem” | Advisor: Prof. Mario OHLBERGER
- JUN 2008 Abitur, Max-Planck-Gymnasium, Delmenhorst, Germany  
Final Grade: 1.1

## PRACTICAL EXPERIENCE

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- JAN 2017- RESEARCH ASSISTANT  
*Research Group on Multiscale and Stochastic Dynamics, Technische Universität München, Munich, Germany*  
PhD student under the supervision of Prof. Christian KUEHN
- 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  
*Institute Langevin, Paris, France*  
Topic: Compressed Sensing for Ultrasonic Imaging | Advisor: Prof. Laurent DAUDET
- AUG 2013 INTERNSHIP  
*German Cancer Research Center, Heidelberg, Germany*  
Topic: Medical Physics in Radiology

## ACTIVITIES

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- AUG 2018 Miniworkshop: *Stochastic population models on networks*, at the Technical University of Munich, Germany
- JUL 2018 Summer School: *Developments in Stochastic Partial Differential Equations*, at the Riemann International School of Mathematics (RISM) in Varese, Italy
- MAY 2018 *Stochastic Partial Differential Equations* conference at the Centre International de Rencontres Mathématiques (CIRM) in Marseille, France
- JUL 2017 Summer School: *Applied Harmonic Analysis* at the University of Genoa, Italy
- DEC 2016 Workshop: *Young Women in Harmonic Analysis and PDE* at the University of Bonn, Germany
- NOV 2016 Fall School: *PDEs and Probability* at the African Institute for Mathematical Sciences (AIMS) in Mbour, Senegal; with travel grant from the German Academic Exchange Service (DAAD)
- DEC 2015 Award from the Dr. Berliner-Dr. Ungewitter-Foundation for an excellent 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

## PUBLICATIONS / PREPRINTS

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M.V. Gnann, C. Kuehn, and A. Pein, "Towards sample path estimates for fast-slow stochastic partial differential equations," *European Journal of Applied Mathematics* (2018).

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

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- Summer term 2018 *EfX-course* for Bachelor students
- Winter term 2017/18 Teaching assistant for *Introduction to Nonlinear Dynamics*
- Summer term 2017 Teaching assistant for *Dynamical Systems*
- Summer term 2014 *Laboratory course* for first year physics students

## LANGUAGES

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GERMAN:	Native		ENGLISH:	Fluent		FRENCH:	Intermediate
SPANISH:	Intermediate		JAPANESE:	Beginner			

## MEMBERSHIP

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European Women in Mathematics

## OTHER INTERESTS

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Hiking, Travelling, Literature, Languages, Photography, Card/Board Games, Swimming, Bouldering, Climbing, Running