

# Adrian Montgomery Ruf

## Curriculum Vitae

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## Education/Employment

- 2018 **Guest Researcher**, *ETH Zürich*, Switzerland.  
Duration: Three months  
Supervisor: Prof. Siddhartha Mishra
- since 2016 **PhD Mathematics**, *University of Oslo*, Norway.  
Marie Skłodowska–Curie research position in the ModCompShock network  
Supervisor: Prof. Nils Henrik Risebro
- 2013–2016 **MSc Mathematics**, *TU Berlin*, Germany.  
Thesis: *A class of nonlinear Evolution equations of second order*  
Supervisor: Prof. Etienne Emmrich
- 2008–2013 **BSc Mathematik**, *TU Berlin*, Germany.  
Thesis: *Operations for nonnegative forms with an application to contents*  
Supervisor: Prof. Karl-Heinz Förster

## Publications

- 2018 Ridder, J. and A.M. Ruf. “A convergent finite difference scheme for the Ostrovsky–Hunter equation with Dirichlet boundary conditions”. Submitted to BIT Numerical Mathematics. URL: <https://arxiv.org/abs/1805.07255>.
- 2017 Ruf, A. M. “Convergence of a full discretization for a second-order nonlinear elastodynamic equation in isotropic and anisotropic Orlicz spaces”. In: *Zeitschrift für angewandte Mathematik und Physik* 68.5, p. 118. DOI: 10.1007/s00033-017-0863-z.

## Awards and Scholarships

- 2018 **Scholarship for an academic secondment**, *ETH Zürich*, Switzerland.
- 2018 **Funding to attend HYP2018**, *Penn State University*, State College, USA.  
XVII International Conference on Hyperbolic Problems: Theory, Numerics, Applications

## Academic experience

- 2018 **Supervision of Bachelor students**, *University of Oslo*.
- 2010–2016 **Teaching assistant**, *TU Berlin*.  
Supervision of courses in
  - Functional analysis
  - Analysis
  - Analysis for engineersin both German and English

- 2015–2016 **Student assistant**, *Matheon Research Center*, Berlin.
- Organization of the Matheon advent calendar for students
  - Coordination and revision of the calendar puzzles and solutions
  - Donor acquisition
- 2015 **Coordinating assistant**, *TUBS*, Berlin.
- 79th annual meeting of the DPG.
- Coordination of the Conference check in
  - Service at the info desk
- 2011–2012 **Student assistant**, *Unitus project*, TU Berlin.
- Created and improved activity oriented learning materials used in mathematical courses for engineers, e.g.
- supporting teaching material
  - online platform Mumie
  - guidelines for tutorials
  - exam analyses
- 2009–2011 **Freelancer**, *Uniseminar Education AG*, Zürich.
- Created and typesetted various mathematical teaching materials in  $\text{\LaTeX}$  for the courses
- Mathematics I & II
  - Mathematical economics

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## Languages

German	Mother tongue
English	Proficient
Finnish	Basic knowledge
Norwegian	Basic knowledge