

CURRICULUM VITAE

Univ.-Prof. Dr. Birgit Schörkhuber

WORK ADDRESS

University of Innsbruck

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EDUCATION

2013 PhD (Dr. techn.), Mathematics, Vienna University of Technology

Advisors: Ansgar Jüngel, Roland Donninger

2010 Diploma (Mag. rer. nat.), Physics, University of Vienna

Advisor: Peter C. Aichelburg

2005 BSc (Bakk. rer. nat.), Astronomy, University of Vienna

POSITIONS

as of June 2021 Professor

Department of Mathematics, University of Innsbruck, Austria

10/2020 – 05/2021 Professor (W2)

Institute of Mathematics, Goethe University Frankfurt, Germany

01/2018 – 09/2020 KIT Associate Fellow/Junior Research Group Leader

Institute for Analysis, Karlsruhe Institute of Technology, Germany

03/2015 – 12/2017 Hertha-Firnberg Postdoctoral Fellow

University of Vienna, Austria

11/2013 – 02/2015 Postdoctoral researcher

Vienna University of Technology, Austria

03/2010 – 10/2013 University assistant

Vienna University of Technology, Austria

CAREER BREAKS

08/2016-10/2017 Maternity leave

MAIN RESEARCH INTERESTS

Analysis of nonlinear time-dependent partial differential equations (well-posedness, large data dynamics, stability of special solutions)

AWARDS, FELLOWSHIPS AND THIRD-PARTY FUNDS

- 07/2019 – 06/2023** SFB 1173 Wave phenomena: Analysis and Numerics (DFG)
Principal investigator, Project B5, 198900 EUR
- 03/2015 – 12/2017** **Hertha Firnberg Fellowship**,
Principal investigator, Project T739-N25 (FWF), 223 500 EUR
- 01/2015** **Hannspeter Winter Award**, Vienna University of Technology
for outstanding doctoral theses by female students, 10000 EUR
- 12/2014** **Award of Excellence 2014**,
Austrian Federal Ministry of Science, Research and Economy
for outstanding doctoral these, 3000 EUR

RESEARCH VISITS

- 03/2015 – 06/2015** Mathematical Institute, University of Bonn, Germany
- 07/2014** Hausdorff Institute for Mathematics, Bonn, Germany

TEACHING

- | | |
|-----------------------------------|--|
| University of Innsbruck | Analysis I, Partial Differential Equations (Bachelor)
Advanced Partial Differential Equations,
Fourier Analysis (Master) |
| Goethe University Frankfurt | Analysis I (Bachelor), Nonlinear wave equations (Master) |
| Karlsruhe Institute of Technology | Nonlinear wave equations (Master) |
| Vienna University of Technology | Analysis I-III (Exercise classes, Bachelor) |
| University of Vienna | Introduction to Mathematics (Exercise classes)
Scientific Computing (Exercise classes) |

MENTORING AND SUPERVISION

- PhD students Sarah Kistner (as of 2022)
Alexander Wittenstein (co-supervision with T. Lamm, KIT, as of 2021)
Michael McNulty (co-supervision with Po-Ning Chen, UC Riverside, 2019 - 2022)
- Postdocs Elek Csobo (2019-2022)
Akansha Sanwal (as of 2023)

ORGANIZATION OF SELECTED WORKSHOP, CONFERENCES AND SUMMER SCHOOLS

ESI Thematic Programme *Nonlinear Waves and Relativity*

Erwin Schrödinger Institute, Vienna, Austria, 29.04-21.06.2024

Organizer, with Roland Donninger and David Fajman (University of Vienna)

BIRS Workshop *Women in dispersive PDEs*

Banff, Canada, 02/2023

Organizer, with Mihaela Ifrim (Madison Wisconsin) and Katharina Schratz (Sorbonne University)

Summer School *Geometric Dispersive PDEs*

Obergurgl, Austria, 26.09-01.10.2022

Organizer, with Tobias Lamm (KIT) and Tobias Weth (Frankfurt)

Minisymposium *Blow-up and Global Dynamics in Nonlinear Dispersive PDEs*

Conference on Mathematics of Wave Phenomena, Karlsruhe, 14-18.02.2022

Co-organizer, with Sebastian Herr (Bielefeld)

Minisymposium *Analysis of wave propagation*

DMV-Jahrestagung, Karlsruhe, 23.-26.09.2019

Co-organizer (with Rainer Mandel)

Minisymposium *Nonlinear dispersive equations*

Conference on Mathematics of Wave Phenomena, Karlsruhe, 23.-27.07.2018.

Organizer

REFEREEING

Analysis & PDE; Archive for Rational Mechanics and Analysis; Calculus of Variations and Partial Differential Equations; Communications in Mathematical Physics; IEEE Transactions on Automatic Control; Journal of Evolution Equations, Journal of Functional Analysis; Mathematische Annalen; Nonlinear Analysis: Real World Applications; Nonlinearity; Proceedings of the American Mathematical Society; Transactions of the American Mathematical Society; Zeitschrift für angewandte Mathematik und Physik;

EDITORSHIPS

Editorial board, Proceedings volume *Mathematics of Wave Phenomena*, Birkhäuser 2020