

YONGMING LUO

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Shenzhen MSU-BIT University
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RESEARCH INTERESTS

- Long time dynamics of nonlinear dispersive equations
- Homogenization and dimension reduction problems arising in material science

EDUCATION

Ph.D. in Mathematics, Universität Kassel (2014-2019)

- Thesis title: Existence and Regularity Results of a Ferroelectric Phase-Field Model
- Advisor: Prof. Dr. Dorothee Knees

M.Sc. in Mathematics, Technische Universität München (2011-2014)

- Thesis title: Semicircle Law for a Class of Random Matrices with dependent Entries
- Advisor: Prof. Dr. Simone Warzel

B.Sc. in Mathematics, Technische Universität München (2008-2011)

- Thesis title: Numerik der skalaren Erhaltungsgleichungen
- Advisor: Prof. Dr. Oliver Junge

EMPLOYMENT

- *Senior Lecturer*, Shenzhen MSU-BIT University (2023.03-Present)
- *Postdoctoral Research Associate*, Technische Universität Dresden (2020.04-2023.01)

PRESENTATIONS AND TALKS

1. *Almost sure scattering for the defocusing cubic nonlinear Schrödinger equation on $\mathbb{R}^3 \times \mathbb{T}$* . Beijing, IAPCM, May 2023.
2. *Almost sure scattering for the defocusing cubic nonlinear Schrödinger equation on $\mathbb{R}^3 \times \mathbb{T}$* . Beijing, AMSS, Chinese Academy of Sciences, May 2023.
3. *Almost sure scattering for the defocusing cubic nonlinear Schrödinger equation on $\mathbb{R}^3 \times \mathbb{T}$* . Beijing, Beijing Institute of Technology, May 2023.
4. *Efficient uncertainty quantification for mechanical properties of randomly perturbed elastic rods*. Aachen, 92nd GAMM Annual Meeting, Aug 2022.
5. *On long time behavior of focusing NLS on waveguide manifolds*. China (online), Webinar on Analysis and PDE (Online seminar organized by Prof. Zihua Guo from Monash University), Jun 2022.

6. *Homogenization and dimension reduction for a randomly perturbed thin rod model.* Kassel (online), SPP-1886 Kick-off meeting, Oct 2020.
7. *Existence and regularity results of a ferroelectric phase-field model.* Kassel, 9th Singular Day, Sep 2019.
8. *A 3D dipolar Bose-Einstein condensate with quantum fluctuation and three-body interaction.* Vienna, 90th GAMM Annual Meeting, Feb 2019.
9. *Existence results for a ferroelectric phase-field model.* Eindhoven, poster presentation at GAMM-Workshop on Analysis of PDE, Sep 2017.
10. *A Survey on a two dimensional ferroelectric model.* Weimar, 88th GAMM Annual Meeting, Mar 2017.

TEACHING EXPERIENCE

- Discrete Structure I and II, exercise tutorial, Universität Kassel (WS14-SS18)
- Foundations of Computer Science, exercise tutorial, Universität Kassel (WS18, WS19)
- Analysis for students in Computer Science, exercise tutorial, Universität Kassel (SS19)
- Finite Element Method, exercise tutorial, Technische Universität Dresden (WS21)
- Analysis I, exercise tutorial, Technische Universität Dresden (WS22)