廖羽晨

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🏛 安徽省合肥市金寨路 96 号 中国科学技术大学   🏢 数学科学学院 410

🎓 教育背景

University of Michigan - Ann Arbor, USA   2015 年 9 月 – 2021 年 6 月
博士 应用与跨学科数学 (Applied and Interdisciplinary Mathematics)
导师: Jinho Baik

中国科学技术大学, 合肥, 安徽   2011 年 9 月 – 2015 年 6 月
学士 少年班 专业：数学与应用数学

👥 工作经历

中国科学技术大学数学科学学院   2025 年 1 月 – 至今
特任教授

Mittag-Leffler Institute, Sweden   2024 年 8 月 – 2024 年 12 月
初级研究员

University of Wisconsin - Madison, USA   2023 年 8 月 – 2024 年 12 月
Van Vleck 访问助理教授   合作导师：Benedek Valko

University of Warwick, UK   2021 年 8 月 – 2023 年 7 月
博士后   合作导师：Nikolaos Zygouras

研究方向

概率论与数学物理
可积概率，Kardar-Parisi-Zhang 普适类中的交互粒子系统、随机偏微分方程及统计物理模型

论文及预印本

1. **Lower tail large deviations of the stochastic six vertex model.**
   with S. Das and M. Mucciconi. *Preprint, arXiv:2407.08530 [math.PR] (2024).*
2. **Large deviations for the q-deformed polynuclear growth.**
   with S. Das and M. Mucciconi. To appear in the Annals of Probability.
3. **Moment intermittency in the PAM with asymptotically singular noise.**
   with P.Y. Gaureau Lamarre and P. Ghosal. *Trans. Amer. Math. Soc. 376(10): 7235-7286, 2023.*
4. **Non-intersecting path constructions for TASEP with inhomogeneous rates and the KPZ fixed point.**
   with E. Bisi, A. Saenz and N. Zygouras. *Comm. Math. Phys. 402(1): 285-333, 2023.*
5. **Rigidity of the stochastic Airy operator.**
   with P.Y. Gaureau Lamarre, P. Ghosal and W. Li. *Int. Math. Res. Not. 2023, No. 24, 20701-20724 (2023).*
6. **Multi-point distribution of discrete time periodic TASEP.**
   Probab. Theory Relat. Fields 182, No. 3-4, 1053-1131 (2022).
7. **On spatial conditioning of the spectrum of discrete random Schrödinger operators.**
   with P.Y. Gaureau Lamarre and P. Ghosal. *J. Spectr. Theory 12, No. 3, 1109-1153 (2022).*
8. **Spectral rigidity of random Schrödinger operators via Feynman-Kac formulas.**
   with P.Y. Gaureau Lamarre and P. Ghosal. *Ann. Henri Poincaré 21, No. 7, 2259-2299 (2020).*

会议及受邀报告

- Webinar on stochastic analysis, 北京理工大学 — March 2025
- Random matrices and scaling limits, Mittag-Leffler institute, — Nov 2024
- Probability seminar, University of Wisconsin - Madison — Oct 2023
- RMT and integrable system seminar, University of Michigan — Oct 2023
- 吴文俊数学重点实验室概率统计系列报告, 中国科学技术大学 — August 2023
- Stochastic analysis seminar, University of Strasbourg — March 2023
- Mathematical physics and probability reading seminar, University of Warwick — Oct 2022
- The charm of integrability, University of Bristol — Sept 2022
- Mathematical physics and probability reading seminar, University of Warwick — Oct 2021
- Universality and Integrability in RMT and Interacting Particle Systems, MSRI — Sept 2021
- Junior integrable probability seminar, Columbia University — April 2021
- Probability and statistics seminar, University of Kansas — Oct 2020
- RMT and integrable systems seminar, University of Michigan — Oct 2020
- RMT and integrable systems seminar, University of Michigan — Sept 2019
- Virginia Integrable Probability Summer School, University of Virgina — May 2019
- Integrability and Randomness in Mathematical Physics and Geometry, CIRM — April 2019
- 2018 Summer School on Random Matrices at Michigan, University of Michigan — June 2018
- Integrable Probability Boston Conference 2018, MIT — May 2018
- First FRG Meeting on Integrable Probability, Columbia University — Oct 2017
- PCMI 2017 summer school on Random matrix theory, Park City — June 2017
- 2016 Summer School on Random Matrices at Michigan, University of Michigan — June 2016

教学

University of Wisconsin - Madison

- Lecturer for Math 331, Introductory probability — Spring 2024
- Lecturer for Math 626, Fourier analysis — Fall 2023
- Lecturer for Math 320, Linear algebra and differential equations — Fall 2023

University of Warwick

- Lecturer for MA4L2/MA6L2, Statistical mechanics — Term 2, Academic year 2022-2023

University of Michigan

- Instructor for math 116, Calculus II — Fall 2019, Winter 2017
- Instructor for math 115, Calculus I — Winter 2018, Fall 2017
- Teaching assistant for math 215, Calculus III — Winter 2019
- Teaching assistant for math 623, Computational Finance — Fall 2016
- Math Lab instructor — Fall 2015, Winter 2016

中国科学技术大学

- 数学分析 B3 助教 — 2014 秋
- 实分析助教 — 2015 春