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## 研究领域

- 随机矩阵、数学物理、高维统计、自由概率

## 教育背景

- 2013.9-2018.6 加州大学戴维斯分校 数学系 博士
- 2009.9-2013.6 中国科学技术大学 数学系 本科

## 工作经历

- 2024.1- 中国科学院应用数学所 副研究员(tenure track)
- 2023.9-2023.12 中国科学院应用数学所 助理研究员(tenure track)
- 2021.9-2023.8 奥地利科学技术研究所(ISTA) 博士后
- 2018.9-2021.8 瑞典皇家理工学院(KTH) 博士后

## 学术成就

- 学术论文
  1. *Universality of extremal eigenvalues of large random matrices*, with Giorgio Cipolloni and László Erdős, preprint arXiv:2312.08325 (2023).
  2. *Precise asymptotics for the spectral radius of a large random matrix*, with Giorgio Cipolloni and László Erdős, preprint arXiv:2210.15643(2022).
  3. *On the rightmost eigenvalue of non-Hermitian random matrices*, with Giorgio Cipolloni, László Erdős, and Dominik Schröder, **Annals of Probability**, Vol. 51, No. 6, 2192-2242, (2023).
  4. *Quantitative Tracy-Widom laws for the largest eigenvalue of generalized Wigner matrices*, with Kevin Schnelli, **Electronic Journal of Probability**, Vol. 28, paper no. 129, 1-38. (2023).
  5. *Convergence rate to the Tracy-Widom laws for the largest eigenvalue of sample covariance matrices*, with Kevin Schnelli, **Annals of Applied Probability**, Vol. 33, No. 1, 677-725 (2023).
  6. *Small deviation estimates for the largest eigenvalue of Wigner matrices*, with László Erdős, **Bernoulli**, Vol. 29, No. 2, 1063-1079 (2023).
  7. *Directional Extremal Statistics for Ginibre Eigenvalues*, with Giorgio Cipolloni, László Erdős, and Dominik Schröder, **Journal of Mathematical Physics**, Vol 63, 103303 (2022). Selected as Editor's Pick.
  8. *Convergence rate to the Tracy-Widom laws for the largest eigenvalue of Wigner matrices*, with Kevin Schnelli, **Communications in Mathematical Physics**, No. 393, 839-907 (2022).
  9. *Central limit theorem for mesoscopic eigenvalue statistics of free sum of matrices*, with

Zhigang Bao and Kevin Schnelli, **International Mathematics Research Notices**, Vol. 2022, No. 7, 5320-5382 (2022).

10. *On fluctuations of global and mesoscopic linear statistics of generalized Wigner matrices*, with Yiting Li, **Bernoulli**, Vol. 27, No. 2, 1057-1076 (2021).

11. *Central limit theorem for mesoscopic eigenvalue statistics of deformed Wigner matrices and sample covariance matrices*, with Yiting Li and Kevin Schnelli, **Annales de l'Institut Henri Poincaré-Probabilités et Statistiques**, Vol. 57, No. 1, 506–546 (2021).

12. *Gaussian approximation of the distribution of strongly repelling particles on the unit circle*, with Alexander Soshnikov, **Theory of Probability and Its Applications**, Vol. 65, No. 4, 588-615 (2020).