Xuanrui Feng

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Beijing International Center for Mathematical Research (BICMR)
Peking University (PKU)
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Education

2024– [*]	**Ph.D.**, Analysis and PDE, Pure Mathematics, Peking University
	Advisor: Prof. Zhenfu Wang
2020–2024	**B.Sc.** Mathematics and Applied Mathematics, Peking University

Awards & Honors

2025	May-Fourth Scholarship at Peking University
2024	Outstanding Graduates of Regular Higher Education Institutions in Beijing
2024	Outstanding Graduation Thesis of Beijing Universities
2024	Huaixin Bachelor at Beijing International Center for Mathematical Research
2023	National Scholarship
2022	National Scholarship

Research

G Google Scholar

Publications

J1. Carrillo, J. A., Feng, X., Guo, S., Jabin, P.-E. & Wang, Z. Relative entropy method for particle approximation of the Landau equation for Maxwellian molecules. *Journal de Mathématique Pures et Appliquées. Accepted for publication* (2025).

Preprints

P1. Feng, X. & Wang, Z. Kac's Program for the Landau Equation. *arXiv preprint arXiv:2506.14309* (2025).

P2. Cai, S., Feng, X., Gong, Y. & Wang, Z. Propagation of chaos for 2D log gas on the whole space. *arXiv preprint arXiv:2411.14777* (2024).

P3. Feng, X. & Wang, Z. Quantitative propagation of chaos for 2D viscous vortex model with general circulations on the whole space. *arXiv preprint arXiv:2411.14266* (2024).

P4. Feng, X. & Wang, Z. Quantitative propagation of chaos for 2D viscous vortex model on the whole space. *arXiv preprint arXiv:2310.05156* (2023).

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[*]Expected.

Talks

T1. *Kac's Program for the Landau Equation.* 23rd Annual Conference of China Society for Industrial and Applied Mathematics (CSIAM) (Changsha, China). Oct. 2025.

T2. *Kac's Program for the Landau Equation.* Wuhan University Academic Talks (Wuhan, China). Oct. 2025.

T3. *Quantitative Propagation of Chaos for Singular First-order System on the Whole Space.* Workshop on Mean-Field Limit (Peking University, Beijing, China). Apr. 2025.

T4. *Quantitative Propagation of Chaos for Singular First-order System on the Whole Space.* Stochastic Webinar (Chinese Academy of Sciences and Beijing Institute of Technology, Online). Dec. 2024.

Teaching

Peking University

2025–2026	TA, Advanced Mathematics D
2024–2025	TA, Advanced Mathematics D

Last updated: October 31, 2025