

Heng Ma

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EDUCATION	Ph.D. in Probability Theory, Peking University	Sep 2020 – Jul 2025 (Expected)
	▪ Adviser: Prof. Ran-Xia Ren	
	Visiting Student, The University of North Carolina at Chapel Hill	Sep 2024 – Mar 2025
	▪ Hoster: Prof. Shankar Bhamidi.	
	B.S. in Mathematics, Shandong University	Sep 2016 – Jun 2020
RESEARCH INTERESTS	Probabilistic models incorporating tree and graph structures: random trees, random graphs and networks, branching random walks, log-correlated fields, ...	
PUBLICATIONS	<ul style="list-style-type: none">[6] Xinxin Chen and Heng Ma, “Branching brownian motion conditioned on large level sets”, preprint, 2024, arXiv:2409.16104[5] Shuwen Lai, Heng Ma and Longmin Wang, “Multifractal spectrum of branching random walks on free groups”, preprint, 2024, arXiv:2409.01346[4] Xinxin Chen, Loïc de Raphélis and Heng Ma, “Branching random walk conditioned on large martingale limit”, preprint, 2024, arXiv:2408.05538[3] Heng Ma and Yan-Xia Ren, “From 0 to 3: Intermediate phases between normal and anomalous spreading of two-type branching Brownian motion”, preprint, 2023, arXiv:2312.13595[2] Heng Ma and Yan-Xia Ren, “Double jump in the maximum of two-type reducible branching Brownian motion”, Accepted in Annales de l’Institut Henri Poincaré - Probabilités et Statistiques, Nov 2024, arXiv:2305.09988[1] Jian Ding, Yiyang Jiang and Heng Ma, “Shotgun Threshold for Sparse Erdős–Rényi Graphs”, IEEE Transactions on Information Theory, vol.69, no.11, pp.7373–7391, 2023.	
TALKS	<ul style="list-style-type: none">▪ Probability Seminar, Beijing Institute of Technology▪ Probability Seminar, Southern University of Science and Technology▪ The 9th Workshop on Branching Processes and Related Topics,▪ The 24th Beijing-Tianjin-Hebei Youth Workshop on Probability and Statistics▪ Probability Seminar, Peking University▪ Yanqi Lake BIMSA Probability Workshop▪ The 8th Workshop on Branching Processes and Related Topics	<ul style="list-style-type: none">Jun 2024May 2024Sep 2023Jun 2023Feb 2023Oct 2022Aug 2022
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none">▪ President’s Scholarship, Peking University, 2024▪ Mathematics Department Scholarships, Peking University, 2021 and 2023▪ Qian Minping Scholarship – Second Prize, Peking University, 2022.▪ National Scholarship, Ministry of Education of China, 2018	

[Last updated: 2024-11-03]