

Haocheng Ju

EDUCATION

Peking University <i>Ph.D. in Computational Mathematics</i>	2021-2026
Peking University <i>B.S. in Computational Mathematics</i>	2017-2021

POSITIONS

Postdoc, Beijing International Center for Mathematical Research, Peking University	2026-
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SELECTED PAPERS

1. **Haocheng Ju***, Leheng Chen*, Peihao Wu, Bryan Dai, Bin Dong, *Matlas: A Semantic Search Engine for Mathematics*, arXiv: 2604.17484.
2. **Haocheng Ju***, Guoxiong Gao*, Jiedong Jiang*, Bin Wu*, Zeming Sun*, Shurui Liu*, Leheng Chen, Yutong Wang, Yuefeng Wang, Zichen Wang, Wanyi He, Peihao Wu, Liang Xiao, Ruochuan Liu, Bryan Dai, Bin Dong, *Automated Conjecture Resolution with Formal Verification*, arXiv: 2604.03789.
3. **Haocheng Ju**, Bin Dong, *AI for Mathematics: Progress, Challenges, and Prospects*, Science China Mathematics, 69, 2026.
4. **Haocheng Ju**, Bin Dong, *MIRB: Mathematical Information Retrieval Benchmark*, ICML 2025 Workshop on AI for Math (ICML 2025 Workshop AI4MATH), 2025.
5. Guoxiong Gao*, **Haocheng Ju***, Jiedong Jiang, Zihan Qin, Bin Dong, *A Semantic Search Engine for Mathlib4*, Findings of the Association for Computational Linguistics: EMNLP 2024.