DIAN LING

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RESEARCH INTERESTS

My research interests basically lie in the intersection of computer science and artificial intelligence, with a particular focus on:

- Cardinality Constraints in Satisfiability Solving
- Parallel Algorithm in Satisfiability Solving
- Combinatorial Optimization (e.g. Graph Theory)

Recently, I also read some papers about LLM which are combining LLM with automated reasoning to solve complex problems.

EDUCATION

2024 - 2026 (expected)	M.S. in Computer Science, Northeast Normal University Advisors: Professor Minghao Yin and Associate Professor Shuli Hu Average Score: 85
2020 - 2024	B.S. in Computer Science , Northeast Normal University <i>Advisors:</i> Professor Minghao Yin and Associate Professor Shuli Hu <i>Average Score: 88, Thesis: 9.5/10</i>

SELECTED PAPERS

[2] A Large Neighborhood Search with Deep Optimization for the Weighted Total Domination Problem in Massive Graphs

Shuli Hu, Wen Wen, **Dian Ling,** Jiaqi Li, Ziqing Liao, Ruizhi Li, Minghao Yin Submitted

[1] A Multi-start Algorithm with Iterated Decremental Local Search for Minimum Capacitated Dominating Set Problem in Large Graphs

Shuli Hu, Shuang Zhou, **Dian Ling**, Jiaqi Li, Ruizhi Li, Yupeng Zhou, Minghao Yin [J] Memetic Computing, Volume 17, Issue 3, Pages 36

RESEARCH EXPERIENCE

06/2023 - 08/2023	Institute of Computing Technology, Chinese Academy of Sciences
	Visiting Student
	- Investigated the application and importance of sparse matrices in AI compilers - Assisted in mapping loop-level IR to Triton kernels.

SELECTED AWARDS & HONORS

2024	Outstanding Graduate Student Northeast Normal University
	Presidential Scholarship Northeast Normal University Awarded to top 5% of students university-wide
	Awarded to top 5% of students university-wide
2022	Meritorious Winner Consortium for Mathematics and its Applications
2021	Bronze Medal China Collegiate Programming Contest The 15th Northeast Collegiate Programming Contest
	China Collegiate Programming Contest
	The 15th Northeast Collegiate Programming Contest