Ting Gao

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Address: Hangzhou, China
Objective: Ph.D. in AI Agents, Reinforcement Learning, Optimization

EDUCATION

Beijing Institute of Technology 985 Sep 2021 - Jun 2024
Computer Technology Master Beijing, China

- **GPA**: 3.68/4.00 **IELTS**: Overall 7(Listening 6, Reading 8.5, Writing 6.5, Speaking 6.5)
- **Visiting Experience**: The University of British Columbia (Dec 2023 - Apr 2024)
  - Supervised by Prof. Jasmin Jelovica, focused on **Multi-Agent Search in Optimization**.
- Exempt from Admission Exam

Harbin Engineering University 211 Sep 2017 - Jun 2021
Computer Science and Technology Bachelor Harbin, China

- **GPA**: 3.63/4.00, **Rank**: 6/273 (Top 2.2%)

PUBLICATIONS

- Yan, Y., **Gao, T.**, Xie, Y., Tang, J. and Jin, Y., 2025. Reliability and Security: From Swarm Robots to AI Agents. *Journal of Reliability Science and Engineering*. (Invited paper)
- **Gao, T.**, Chen, X., Yan, Y., Yue, P., Wang, A and Jin, Y. BODI Optimizer: A Bit-Oriented Distance-based Intelligent Optimizer for Key Recovery with BLL. (USENIX Security'25 under review)
- Tang, J., Ye, Z., Yan, Y., **Gao, T.**, Zheng, Z. and Jin, Y., 2025. Zero-shot Robotic Manipulation with Language-guided Instruction and Formal Task Planning. *arXiv preprint arXiv:2501.15214*. (IJCAI'25 under review)
- Yan, Y., **Gao, T.**, Xie, Y. and Jin, Y., 2025. Security and Privacy in Swarm Intelligence Systems: A Review. *Telecommunications Science*. (Accepted)
- Zhang, Z., Yin, J., Hu, B., **Gao, T.**, Li, W., Wu, Q. and Liu, J., 2022. CLTracer: a cross-ledger tracing framework based on address relationships. *Computers & Security, 113*, p.102558. (CCF B)

RESEARCH EXPERIENCES

Embodied AI and Its Reliability (Westlake University) Dec 2024 - Present

- **Supervisor**: Prof. Yaochu Jin (IEEE Fellow, Chair Professor of the Department of Artificial Intelligence)
- Completed a comprehensive analysis of AI agent systems and compared AI agent systems with swarm robotic systems, multi-agent systems, and Agent AI systems.

Multi-Agent Search in Optimization (UBC) Dec 2023 - Apr 2024

- Applied Reinforcement Learning algorithms to tackle the OSY problem (a multiobjective test function) successfully and investigated the efficiency of the Multi-Agent DDPG algorithm for the same.

Correlation Power Analysis based on Intelligent Optimizer (BIT) Mar 2021 - Jun 2023

- Developed the **BODI Optimizer** for key recovery with BLL, reducing power traces by **17.6%** and **13.6%**, respectively, in simulations and FPGA experiments, compared to the SOTA method.

Blockchain Cross-Ledger de-Privacy Technology (Beihang University) Jun 2020 - Aug 2020

- Designed and implemented Transaction Data Discovery based on Address Relationships and Cross-Ledger Clustering Composite Heuristics.

HONORS & AWARDS

Chinese National Scholarship

1st Prize in Chinese College Students' Mathematical Modeling Competition in Hei Province

3rd Prize in National Finals & 2nd Prize in Provincial Finals of 13th Chinese Collegiate Computing Competition

PROFESSIONAL SUMMARY

- **Research Interest**: LLM-driven AI Agents, Reinforcement Learning, and Optimization
- **Technical Skills**: Proficient in C, C++, Python, and Pytorch, with hands-on experience in software development gained through successful internships at top-tier companies (Baidu, Hyperchain, ICBC).
- **Personal Attributes**: Self-motivated, meticulous, detail-oriented, and eager to explore new fields.