

Boyan(Bryan) Han

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EDUCATION

Hebei University of Technology, Tianjin, China
Bachelor of Engineering in Artificial Intelligence

September 2020 — June 2024

RESEARCH INTERESTS

Multimodal dLLMs/LLMs, Reinforcement Learning, dLLM/LLM Agent

PUBLICATIONS

- [1] **Han, B.**, Wang, Y., Song, Y., Cai, Y., Zhang, C. (2026). Dynamic Infilling Anchors for Format-Constrained Generation in Diffusion Large Language Models. *The 64th Annual Meeting of the Association for Computational Linguistics. (ACL Main)*.
- [2] Song, Z., **Han, B.**, Wang, Y., Zhang, C. (2026). Hard to Read, Easy to Jailbreak: How Visual Degradation Bypasses MLLM Safety Alignment. *The 64th Annual Meeting of the Association for Computational Linguistics. (ACL Findings)*.
- [3] Jiang, W., Wang, Y., **Han, B.**, Zhou, T., Zhang, C. (2026). SQLAgent: Learning to Explore Before Generating as a Data Engineer. *The 64th Annual Meeting of the Association for Computational Linguistics. (ACL Findings)*.
- [4] **Han, B.**, Wang, Y., Wang, X., Song, Y., Chen, K., Zhang, C. (2026). Learning When to Parallelize: Structure-Aware RL for Logical Reasoning in Diffusion LLMs. (Submitted).

RESEARCH EXPERIENCE

Optimizing Diffusion LLMs via Logic-Aware Reinforcement Learning Reward Design Hangzhou, China
Lead Project Member (Advisors: Prof. Chi Zhang, Prof. Yiwei Wang) November 2025 — January 2026

- Proposed and implemented a logic-aware reinforcement learning reward design to address autoregressive degradation in complex reasoning tasks. Constructed a multi-dimensional reward mechanism—encompassing parallelism, dependency, and result correctness rewards—to guide the optimization of diffusion LLMs through logical structure constraints and generation parallelism.
- Systematically evaluated the framework on the ListOps reasoning benchmark, exploring and verifying its robustness across various positional sampling algorithms. This approach significantly enhanced generation quality for complex logical tasks while substantially improving parallel decoding efficiency.

Training-Free Format Control for Large Diffusion Language Models Hangzhou, China
Independent Researcher (Advisors: Prof. Chi Zhang, Prof. Yiwei Wang) June 2025 — October 2025

- Implemented a training-free inference algorithm for large diffusion language models, utilizing token-level softmax scores to guide dynamic anchor selection, ensuring robust structural integrity across diverse scenarios in zero-shot settings.
- Conducted rigorous evaluations on mathematical reasoning (GSM8K, MATH) and JSON benchmarks against Dream-7B and static infilling baselines.
- Significantly enhanced format adherence while preserving reasoning accuracy: achieved over 70% format retention in mathematical reasoning (vastly outperforming baselines) and maintained a stable ~80% valid JSON generation rate across various extraction methods.

AWARDS

First prize in Electronics Design Contest 2022 among HeBei University of Technology Tianjin, China
Developed the computer vision module for the vehicle, implementing robust algorithms for line tracking and counting based on OpenMV hardware and libraries.

Successful Participants of MCM & ICM 2022 Tianjin, China
Collaborated with team members to formulate a novel definition of "Green GDP", constructed mathematical models to quantify the metric, and executed the data collection and calculation process.

PERFESSIONAL EXPERIENCES

NLP Lab, University of California at Merced*Research Intern**Advisor: Prof. Yiwei Wang***AGI Lab, Westlake University***Research Assistant**Advisor: Prof. Chi Zhang***FAW-FINDREAMS New Energy Technology Co., Ltd.***Application Systems Engineer*

Remote

May 2025 — Now

Hangzhou, China

April 2025 — Now

Changchun, China

August 2024 — March 2025

SKILLS

- **Programming:** Python, C, Shell/Bash, Markdown
- **Framework or Ecosystem:** Pytorch, HuggingFace, WandB, Tree-sitter ...
- **Soft Skills:** Synergistic Collaborator, Intrinsically Motivated, Intellectually Curious