

DONGDING LIN

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🌐 github.com/DongdingLin • 🎓 Google Scholar • **Target Role:** LLM Research Engineer / Applied Scientist

SUMMARY

PhD candidate at The Hong Kong Polytechnic University with research focus on **LLM reasoning, conversational AI, and multimodal LLMs**. Strong end-to-end experience in problem formulation, data construction, model design, and reproducible evaluation. Proven publication record in ACM MM, ACL, AAAI, TOIS, and TNNLS.

EDUCATION

The Hong Kong Polytechnic University

PhD Candidate, Department of Computing (NLP Group)

Sept. 2022 – Present

Hong Kong, China

Sun Yat-sen University

M.Eng. in Computer Technology, GPA: 3.9/4.0

Sept. 2017 – Jul. 2020

Guangzhou, China

Sun Yat-sen University

B.Eng. in Software Engineering, GPA: 3.8/4.0 (Rank: 37/433)

Sept. 2013 – Jul. 2017

Guangzhou, China

EXPERIENCE

Huawei Hong Kong Research Center (HKRC), Fermat Lab

Research Intern

Aug. 2025 – Present

Hong Kong, China

- **Wireless edge online learning and data pruning:** built an end-cloud lightweight training pipeline for compute-constrained base-station scenarios; combined hybrid OOD filtering, distillation-based hard mining, and GPU-accelerated K-Means deduplication, achieving **4x** lower training compute (75%) with **>97%** accuracy retention.
- **Neuro-symbolic math reasoning data synthesis:** developed a “LLM semantic parsing + Mathematica symbolic verification” data factory to enforce logical consistency and ground-truth correctness; improved AIME/HMMT-style generalization from **7.8%** to **63.95%**, and raised Math500 new-problem accuracy to **99%**.
- **Real-world dialogue data curation and semantic alignment:** replaced rule-based cleaning with sentence-embedding and clustering pipelines to remove ASR noise, invalid refusals, and long-tail outliers, producing IID high-value “golden” data that improved robustness and response quality in production-like scenarios.

NLP Group, The Hong Kong Polytechnic University

Research Assistant / PhD Research

Dec. 2022 – Present

Hong Kong, China

- Research focus: situated conversational recommendation, LLM reasoning, and multimodal understanding.
- Led projects from task definition and benchmark creation to baseline implementation and paper submission.
- Published first-author / co-first papers in top-tier venues and journals.

NLP Group, The Hong Kong Polytechnic University

Research Assistant

Jul. 2021 – Dec. 2022

Hong Kong, China

- Studied target-oriented dialogue planning and conversational recommendation frameworks.
- Built planning-enhanced generation pipelines for proactive and controllable dialogue.

Collective Intelligence Systems Lab, Sun Yat-sen University

Research Assistant

Feb. 2018 – Jul. 2020

Guangzhou, China

- Worked on machine reading comprehension, proposing hierarchical information transmission and memory-flow mechanisms.

SELECTED PROJECTS (LLM)

SCREEN: A Benchmark for Situated Conversational Recommendation

ACM MM 2024

- Proposed a new task setting for situated conversational recommendation.
- Built a benchmark with **20k+ dialogues** over **1.5k scenarios** via multimodal role-playing generation.
- Designed subtasks and baseline evaluations to support future model development and comparison.

MIDI-Tuning: Instruct Once, Chat Consistently in Multiple Rounds

ACL 2024

- Proposed a role-aware tuning framework for multi-round dialogue consistency.
- Improved stability of agent behavior with efficient adapter-based training strategy.

TRIP: Target-constrained Bidirectional Planning

TOIS 2024

- Introduced look-ahead/look-back bidirectional planning for target-oriented proactive dialogue.
- Improved path quality and controllability for downstream dialogue generation.

SELECTED PUBLICATIONS

- **Dongding Lin**, Jian Wang, Chak Tou Leong, Wenjie Li. SCREEN: A Benchmark for Situated Conversational Recommendation. *ACM MM* 2024.
- Jian Wang, **Dongding Lin**, Wenjie Li. Target-constrained Bidirectional Planning for Generation of Target-oriented Proactive Dialogue. *TOIS* 2024.
- Jian Wang, Chak Tou Leong, Jiashuo Wang, **Dongding Lin**, Wenjie Li, Xiao-Yong Wei. Instruct once, chat consistently in multiple rounds: An efficient tuning framework for dialogue. *ACL* 2024.
- Jian Wang, Yi Cheng, **Dongding Lin**, et al. Target-oriented proactive dialogue systems with personalization. *EMNLP* 2023.
- **Dongding Lin***, Jian Wang*, Wenjie Li. COLA: Improving Conversational Recommender Systems by Collaborative Augmentation. *AAAI* 2023.
- Jian Wang*, **Dongding Lin***, Wenjie Li. Dialogue Planning via Brownian Bridge Stochastic Process for Goal-directed Proactive Dialogue. *ACL Findings* 2023.

ACADEMIC SERVICES & TEACHING

- Reviewer: ACL Rolling Review (ARR), ACL, EMNLP, ACM MM.
- Teaching Assistant: *Natural Language Processing* (2024/25 S2, 2023/24 S2), *Data Structures and Database Systems* (2024/25 S1), *Mobile Computing* (2023/24 S1).

SKILLS

Programming	Python, C/C++, Java, JavaScript, SQL, MATLAB
ML Stack	PyTorch, TensorFlow, Hugging Face, Scikit-learn
Research Areas	LLM reasoning, dialogue systems, conversational recommendation, multimodal understanding
Tools	Linux, Git, LaTeX

AWARDS

- Ranked **4/750** in 2021 Language and Intelligence Challenge (Baidu).
- Ranked **4/119** in Materials Quality Prediction Kaggle Competition.
- Outstanding Graduate Award (Top 3%), Excellent Graduation Thesis (Top 3%), Sun Yat-sen University.
- First/Second/Third Prize Scholarships during undergraduate and postgraduate study.