

DONGDING LIN

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GitHub: 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	<i>Sept. 2022 – Present</i>
PhD Candidate, Department of Computing (NLP Group)	Hong Kong, China
Sun Yat-sen University	<i>Sept. 2017 – Jul. 2020</i>
M.Eng. in Computer Technology, GPA: 3.9/4.0	Guangzhou, China
Sun Yat-sen University	<i>Sept. 2013 – Jul. 2017</i>
B.Eng. in Software Engineering, GPA: 3.8/4.0 (Rank: 37/433)	Guangzhou, China

EXPERIENCE

Huawei Hong Kong Research Center (HKRC), Fermat Lab	<i>Aug. 2025 – Present</i>
Research Intern	Hong Kong, China
<ul style="list-style-type: none">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.	
<ul style="list-style-type: none">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%.	
<ul style="list-style-type: none">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	<i>Dec. 2022 – Present</i>
Research Assistant / PhD Research	Hong Kong, China
<ul style="list-style-type: none">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	

NLP Group, The Hong Kong Polytechnic University	<i>Jul. 2021 – Dec. 2022</i>
Research Assistant	Hong Kong, China
<ul style="list-style-type: none">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	

Collective Intelligence Systems Lab, Sun Yat-sen University	<i>Feb. 2018 – Jul. 2020</i>
Research Assistant	Guangzhou, China
<ul style="list-style-type: none">Worked on machine reading comprehension, proposing hierarchical information transmission and memory-flow mechanisms.	
SELECTED PROJECTS (LLM)	

- 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.