

Dehai Min

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EDUCATION

University of Illinois Chicago

08/2025 - present

Ph.D. in Computer Science. Advisor: [Lu Cheng](#)

Southeast University

09/2022 - 06/2025

M.S. in Computer Science. Advisor: [Guilin Qi](#)

Hefei University

09/2017 - 06/2022

B.S. in Computer Science.

RESEARCH INTERESTS

- **Retrieval-Augmented Generation (RAG) & Agentic Search:** Dynamic retrieval strategies, deep research agents, adaptive knowledge integration for LLMs.
- **Efficient LLM Reasoning:** Token-efficient inference, early stopping for long-reasoning models, latent reasoning.
- **Trustworthy LLMs:** Uncertainty quantification, hallucination detection, reliable generation for real-world deployment.

TECHNICAL SKILLS

Languages: Python, C/C++

LLM Training: SFT (Full-parameter & QLoRA/LoRA), GRPO/RLHF, InfoNCE Contrastive Learning with Hard Negative Mining, Continual Pre-training, Knowledge Distillation

Retrieval & RAG: Dense Retrieval, BM25, FAISS, LangChain, Embedding Model Training (Sentence-Transformers, MS-Swift), Cross-modal Embedding Alignment

Infra & Tools: DeepSpeed (ZeRO Stage 2), Flash Attention, Multi-GPU Distributed Training, vLLM, LLaMA Factory, SLURM

INTERNSHIP

Stony Brook University

07/2024 - 11/2024

Research Intern, Advisor: [Chenyu You](#)

PUBLICATIONS AND PREPRINTS

As of Feb. 2026, My Google Scholar statistics are: **Citations: 332, h-index: 7, i10-index: 5.**

* Refers to the authors having the equal contribution, and should be considered as co-first authors.

First-author Publications

1. **Dehai Min**, Giovanni Vaccarino, Huiyi Chen, Lu Cheng. PUMA: When to Stop Thinking? Redundancy-Aware Early Exit for Long-Reasoning Models (targeting NeurIPS 2026).
2. **Dehai Min**, Kailin Zhang, Tongtong Wu, Lu Cheng. [QuCo-RAG: Quantifying Uncertainty from](#)

the Pre-training Corpus for Dynamic Retrieval-Augmented Generation (ACL 2026 Under Review),
🔗 Code: 36 Stars, 📰 Chinese Media Coverage (新智元) .

3. **Dehai Min**, Zhiyang Xu, Guilin Qi, Lifu Huang and Chenyu You. [UniHGKR: Unified Instruction-aware Heterogeneous Knowledge Retrievers](#) (NAACL 2025, **Oral**), Highest Meta-Review Score: 5, 🔗 Code: 25 Stars.
4. **Dehai Min***, Nan Hu*, Rihui Jin, Nuo Lin, Jiaoyan Chen, Yongrui Chen, Yu Li et al. [Exploring the Impact of Table-to-Text Methods on Augmenting LLM-based Question Answering with Domain Hybrid Data](#) (NAACL 2024, **Oral**).
5. Yiming Tan*, **Dehai Min***, Yu Li, Wenbo Li, Nan Hu, Yongrui Chen, and Guilin Qi. [Can ChatGPT replace traditional KBQA models? An in-depth analysis of the question answering performance of the GPT LLM family](#) (ISWC 2023, **Oral**), 🔗 Code: 40 Stars, **cited 190 times**.

Collaborative Publications

1. Weihao Liu, **Dehai Min**, Lu Cheng. [Latent Thoughts Tuning: Bridging Context and Reasoning with Fused Information in Latent Tokens](#) (ICML 2026 Under Review), 🔗 Code.
2. Mingyang Wei, **Dehai Min**, Zewen Liu, Yuzhang Xie, Guanchen Wu, Carl Yang, Max S.Y. Lau, Qi He, Lu Cheng, Wei Jin. [EpiQAL: Benchmarking Large Language Models in Epidemiological Question Answering for Enhanced Alignment and Reasoning](#) (ACL 2026 Under Review).
3. Huiyi Chen, Jiawei Peng, **Dehai Min**, Changchang Sun, Kaijie Chen, Yan Yan, Xu Yang, Lu Cheng. [MVI-Bench: A Comprehensive Benchmark for Evaluating Robustness to Misleading Visual Inputs in LVLMS](#) (ICML 2026 Under Review), 🔗 Code.
4. Rihui Jin, Yu Li, Guilin Qi, Nan Hu, Yuan-Fang Li, Jiaoyan Chen, Jianan Wang, Yongrui Chen, **Dehai Min** and Sheng Bi. [HeGTa: Leveraging Heterogeneous Graph-enhanced Large Language Models for Few-shot Complex Table Understanding](#) (AAAI 2025).
5. Yu Li, Shenyu Zhang, Rui Wu, Xiutian Huang, Yongrui Chen, Wenhao Xu, Guilin Qi, and **Dehai Min**. [MATEval: A Multi-Agent Discussion Framework for Advancing Open-Ended Text Evaluation](#) (DASFAA 2024, **Oral**).
6. Nan Hu, Yike Wu, Guilin Qi, **Dehai Min**, Jiaoyan Chen, Jeff Z. Pan et al. [An empirical study of pre-trained language models in simple knowledge graph question answering](#) (WWW Journal 2023).
7. Jiaqi Li, Chuanyi Zhang, Miaozen Du, **Dehai Min**, Yongrui Chen, and Guilin Qi. [Three stream based multi-level event contrastive learning for text-video event extraction](#) (EMNLP 2023, **Oral**).

ACADEMIC SERVICES

- **Outstanding Reviewer of 2024–2025**, IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- Reviewer of ACL 2025/2026, EMNLP 2025, ICML 2026
- Reviewer of IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

PROJECT EXPERIENCE

Research Project Collaborate with Information Communications Technology (ICT) Industry, 12/2022 - 06/2024

Project Name: Complex Knowledge Extraction and Intelligent Question Generation Technology Based on Multi-task Pre-trained Language Models

I am a **Research Assistant and student leader** responsible for the following tasks:

- 1. Multi-task Pre-trained Language Models Enhanced with Domain(or Industry) Knowledge
- 2. Model Distillation for Domain-specific LLM
- 3. Fine-tuning Domain Foundation Models for Intention Recognition Task
- 4. Enhancing Multi-turn Dialogue Performance of Domain-specific LLM

AWARDS & HONORS

Competitions

ACM-ICPC (International Collegiate Programming Contest) Asian Regional Contest (Shanghai Site and others)	2019-2020, Silver Medal Certificate: individual/team
CCPC-Finals (China Collegiate Programming Contest National Finals)	2019, Silver Medal 21st Place Nationwide
Anhui Province Collegiate Programming Contest	Champion (2020) First Prize (2019, 2020)
Codeforces Rating (International programming competition platform)	2108 (Title: Master) link

Scholarships (selected)

Southeast University Xiaomi Scholarship (1/98), China	<i>Nov. 2024</i>
Southeast University Alumni Scholarship (Top 1%), China	<i>Oct. 2023</i>
Hefei University First-class Scholarship (Top 10%), China	<i>Oct. 2020</i>
National Encourage Scholarship (Top 3%-5%), China	<i>Oct. 2019</i>