

# Dehai Min

 Github |  Homepage |  Google Scholar |  dmin10@uic.edu

## EDUCATION

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<b>University of Illinois Chicago</b>	08/2025 - present
Ph.D. in Computer Science. Advisor: <a href="#">Lu Cheng</a>	
<b>Southeast University</b>	09/2022 - 06/2025
M.S. in Computer Science. Advisor: <a href="#">Guilin Qi</a>	
<b>Hefei University</b>	09/2017 - 06/2022
B.S. in Computer Science.	

## RESEARCH INTERESTS

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- **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

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<b>Languages:</b>	Python, C/C++
<b>LLM Training:</b>	SFT (Full-parameter & QLoRA/LoRA), GRPO/RLHF, InfoNCE Contrastive Learning with Hard Negative Mining, Continual Pre-training, Knowledge Distillation
<b>Retrieval &amp; RAG:</b>	Dense Retrieval, BM25, FAISS, LangChain, Embedding Model Training (Sentence-Transformers, MS-Swift), Cross-modal Embedding Alignment
<b>Infra &amp; Tools:</b>	DeepSpeed (ZeRO Stage 2), Flash Attention, Multi-GPU Distributed Training, vLLM, LLaMA Factory, SLURM

## INTERNSHIP

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<b>Stony Brook University</b>	07/2024 - 11/2024
Research Intern, Advisor: <a href="#">Chenyu You</a>	

## PUBLICATIONS AND PREPRINTS

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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 (Submitted to COLM 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, MiaoZeng 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

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### Competitions

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

### 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>