

HUNG-TING CHEN

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RESEARCH INTEREST

Natural Language Processing, Machine Learning. More specifically, building accurate, efficient, and reliable systems for answering human queries.

EDUCATION

Ph.D. in Computer Science, New York University *Aug. 2024 - Present*
advised by **Prof. Eunsol Choi** (Aug. 2021 - Present)
Ph.D. in Computer Science, University of Texas at Austin (UT Austin) *Aug. 2023 - Aug. 2024*
M.S. in Computer Science, University of Texas at Austin (UT Austin) *Aug. 2021 - May 2023*
Overall GPA: 3.95/ 4.00
B.S. in Electrical Engineering, National Taiwan University (NTU) *Sept. 2016 - June 2020*
Overall GPA: 4.26/ 4.30 (No. 4/177)

PUBLICATION

- Deniz Qian*, **Hung-Ting Chen***, Eunsol Choi. “RVR: Retrieve-Verify-Retrieve for Comprehensive Question Answering” *Arxiv Preprint*
 - **Hung-Ting Chen**, Xiang Liu, Shauli Ravfogel, Eunsol Choi. “Beyond Single Embeddings: Capturing Diverse Targets with Multi-Query Retrieval” *Arxiv Preprint*
 - **Hung-Ting Chen**, Eunsol Choi. “Open-World Evaluation for Retrieving Diverse Perspectives” *The 2025 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2025)*
 - **Hung-Ting Chen**, Fangyuan Xu*, Shane A. Arora*, Eunsol Choi. “Understanding Retrieval Augmentation for Long-Form Question Answering” *Conference on Language Modeling (COLM 2024)*
 - Ge Gao*, **Hung-Ting Chen***, Yoav Artzi, Eunsol Choi. “Continually Improving Extractive QA via Human Feedback” *The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP 2023)*
 - **Hung-Ting Chen**, Michael J.Q. Zhang, Eunsol Choi. “Rich Knowledge Sources Bring Complex Knowledge Conflicts: Recalibrating Models to Reflect Conflicting Evidence” *The 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022)*
 - Shane Arora*, Marzena Karpinska*, **Hung-Ting Chen**, Ipsita Bhattacharjee, Mohit Iyyer, Eunsol Choi. “CaLMQA: Exploring culturally specific long-form question answering across 23 languages” *The 63rd Annual Meeting of the Association for Computational Linguistics (ACL 2025)*
 - **Hung-Ting Chen***, Yu-Chieh Chao*, Ta-Hsuan Chao*, Wei-Yun Ma. “Predict and Use Latent Patterns for Short-Text Conversation” *The Fourth Workshop on Reasoning and Learning for Human-Machine Dialogues at AAAI 2021*
- (*indicates equal contribution)

INDUSTRY RESEARCH EXPERIENCE

Salesforce AI Research (Manager: Semih Yavuz)

Improving Multi-hop Reasoning with Reasoning Chain Aggregation *May 2024 - Aug. 2024*

- Designed reasoning chains that could help improve multi-hop reasoning of LLMs
- Developed self-consistency-inspired aggregation scheme on various types of reasoning chains

Microsoft, Copilot Tuning (Manager: Patrick Xia)

Knowledge Extraction for Unknown Aggregation Queries *May 2026 - Aug 2026*

- Constructed a knowledge extraction pipeline that produces structured data based on raw text corpora
- Proposed an agent that is capable of using the extracted structures via bash and Python tools

RESEARCH EXPERIENCE

Computer Science Department, New York University (Advisor: Prof. Eunsol Choi)

Efficient Agentic Search System

Nov. 2025 - Present

- Analyze search trajectories of existing agents and identify failure patterns
- Design high-level planning module to inform more efficient inference strategies

Iterative Retrieval System [\[Paper Link\]](#)

Nov. 2024 - Jan. 2026

- Devise architecture modifications and training pipelines for fine-tuning an iterative retriever
- Enhance comprehensiveness in retrieving a list of answers by 10%

Improving Retrieval Diversity [\[Paper Link\]](#)

Sept. 2024 - Sept. 2025

- Established the limitation of single-query vector retrievers on capturing diverse target distributions
- Developed a novel retriever that outputs multiple query embeddings autoregressively

Computer Science Department, UT Austin (Advisor: Prof. Eunsol Choi)

Evaluation of Retrieval Diversity [\[Paper Link\]](#)

Sept. 2023 - May 2024

- Constructed a benchmark for evaluating whether diverse perspectives are retrieved for subjective questions
- Showed the incapability of existing retrievers to retrieve diverse perspectives and proposed improvements

Retrieval Augmentation in Long-Form QA [\[Paper Link\]](#)

Oct. 2022 - Sept. 2023

- Studied how three LMs (WebGPT, GPT-3.5, and Alpaca) use retrieved documents in-context
- Collected human annotations on whether answers are supported by the reference documents in RAG setting

Continual Learning on Extractive QA [\[Paper Link\]](#)

July 2022 - May 2023

- Collect multiple batches of user feedback to a QA system with Amazon Mechanical Turk
- Improve accuracy of answers by 11% using bandit learning

Knowledge Conflicts in Open-Retrieval QA [\[Paper Link\]](#)

Sept. 2021 - June 2022

- Investigated knowledge conflicts between different knowledge sources in open-retrieval QA setting
- Showed that models rarely hallucinate when provided with a high-quality retriever
- Trained a separate calibrator to refrain the model from answering questions with knowledge conflicts

Institute of Information Science, Academia Sinica (Advisor: Prof. Wei-Yun Ma)

Data-to-Text Generation System [\[Website Link\]](#)

July 2020 - July 2021

- Improved attribute mention accuracy by 17% with template-based transformer model
- Enhanced generation quality of the system via template optimization

Dialogue Generation with Latent Pattern [\[Github Link\]](#) [\[Arxiv Link\]](#)

June 2019 - June 2020

- Incorporated information from a latent sentence or part-of-speech sequence predicted by model
- Obtained 36.42 BLEU-1 score on Weibo Benchmark Dataset

Speech Processing Laboratory, NTU (Advisor: Prof. Lin-Shan Lee & Hung-Yi Lee)

Entity-Aware Automatic Text Summarization [\[Github Link\]](#)

Sept. 2018 - June 2020

- Implemented a transformer-based neural model with pointer-generator network to summarize text
- Incorporated named-entity information into summarization model with modified attention mechanism
- Introduced entity-aware embedding to enhance ROUGE-1, -2 scores by 5% and 8%

Meta-Learning on Speech Recognition

Feb. 2020 - June 2020

- Investigated methods of meta-learning and implemented a paper in PyTorch [\[Github Link\]](#)
- Researched meta-learning methods on cross-accented automatic speech recognition

AWARDS

- 3 * Academic Excellence Award (top 5% in department in a semester)

- 2nd Place in NTUEE Undergraduate Innovation Award
- 2nd Place in Small Data Training for Medical Images Contest (held by HTC Taiwan)

SERVICES

Teaching Assistant (TA) for *Signals and Systems* (NTU) Feb. 2019 - June 2019

- Graded assignments and two exams
- Answered questions from students during weekly office hours

TA for *Deep Learning for Human Language Processing* (NTU) Feb. 2020 - June 2020

- Designed and graded programming assignment on the topic Source Separation

TA for *Natural Language Processing* (UT Austin) Jan. 2022 - May 2022

- Graded assignments, final project and final exam
- Led a review session and answered questions from students during weekly office hours

Reviewer

- ICLR 2026, ARR (July 2025, Feb 2025, Oct 2024, Aug 2024, Feb 2024), EMNLP (2022, 2023), ACL 2023, AKBC 2022, KnowledgeLM @ ACL2024

COURSE PROJECTS

Improving VQA Model Robustness with Adversarial Inputs [[Report Link](#)] Jan. 2022 - May 2022

- Augmented the training set with adversarial inputs using paraphrase generation and adversarial attack
- Improved accuracy of various VQA backbone models on VQA-CP test set by 4-9%

Neural-Based Medical Image Analysis – Disease Detection [[Github Link](#)] Dec. 2018 - Jan. 2019

- Developed a neural model identifying 14 diseases on NIH chest X-Ray dataset
- Led the team of three people, assigned tasks, and designed project structure
- Achieved 2nd place in “Small Data Training for Medical Images Contest”

Multi-Source Domain Adaptation on DomainNet [[Poster Link](#)] May. 2019 - June. 2019

- Modified Adversarial Discriminative Domain Adaptation (ADDA) into FuzzyADDA
- Implemented Maximum Classifier Discrepancy (MCD) method
- Ranked 1st and 2nd in public and private leaderboards in Kaggle competition out of 20 teams

TECHNICAL STRENGTHS

Programming Languages	C++, Python, Matlab
Machine Learning	PyTorch, Keras, Tensorflow, Google Cloud VM, Huggingface, OpenAI APIs
Web Development	HTML, Flask, Javascript, Firebase, Heroku
Data Collection	MTurk, Prolific
Languages	Mandarin (Native), English (Fluent, TOEFL iBT: 109)

Last updated: Sept 8, 2026