

Tenghao Huang

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Research interests LLM Agents, Post-training, Information Retrieval

Education **University of Southern California** Los Angeles
Ph.D., Computer Science Expected May 2026
Advised by Prof. Muhamo Chen and Prof. Jonathan May

University of Southern California Los Angeles
Master of Science, Computer Science 2022-2024

University of North Carolina at Chapel Hill Chapel Hill
B.S., Computer Science, B.S., Mathematics Aug 2018 - May 2022
Advised by Prof. Snigdha Chaturvedi and Prof. Colin Raffel

Publications (* indicates equal contribution)

DiscoSum: Discourse-aware News Summarization
T Huang*, A Spangher*, J Gu*, J Shi, M Chen. *Preprint.*

WebDS: An End-to-End Benchmark for Web-based Data Science
E Hsu, H Yam, I Bouissou, A John, R Thota, J Koe, V Putta, G Dharesan, A Spangher, S Murty, T Huang*, C Manning. *Preprint.*

Teaching Language Models To Gather Information Proactively
T Huang, S Chen, M Chen, J May, L Yang, M Wan, P Zhou. *Findings of EMNLP 2025.*

Familiarity-Aware Evidence Compression for Retrieval-Augmented Generation
D Jung, Q Liu, T Huang, B Zhou, M Chen. *Findings of EMNLP 2025.*

FoodPuzzle: Developing LLM Agents as Flavor Scientists
T Huang, D Lee, J Sweeney, J Shi, E Steliotes, M Lange, J May, M Chen.
KDD Datasets and Benchmarks Track 2025. (Oral)

NewsInterview: A Dataset and a Playground to Evaluate LLMs' Ground Gap via Informational Interviews
M Lu, H J Cho, T Huang, W Shi, J May, A Spangher. *ACL 2025. (Oral)*

R2D2: Remember, Reflect and Dynamic Decision Making for Web Agents
T Huang, I Abdelaziz, K Basu, A Munawar, P Kapanipathi, J May, M Chen. *ACL 2025.*

Are LLMs Capable of Generating Human-Level Narratives?

T Huang*, Y Tian*, M Liu, D Jiang, A Spangher, M Chen, J May, N Peng. *EMNLP 2024*
Outstanding Paper Award 🏆

Red Teaming Language Models for Contradictory Dialogues

X Wen, B Li, T Huang, M Chen. *EMNLP 2024*

Planning and Editing What You Retrieve for Enhanced Tool Learning

T Huang, D Jung, M Chen. *Findings of NAACL 2024*

Affective and Dynamic Beam Search for Story Generation

T Huang, E Qasemi, B Li, H Wang, F Brahman, M Chen, S Chaturvedi. *Findings of EMNLP 2023*

Few-shot parameter-efficient fine-tuning is better and cheaper than in-context learning

H Liu, D Tam, M Muqeeth, J Mohta, T Huang, M Bansal, C Raffel. *NeurIPS 2022*

Read Top News First: A Document Reordering Approach for Multi-document News Summarization

T Huang*, C Zhao*, SBR Chowdhury, S Chaturvedi. *Findings of ACL 2022*

Uncovering Implicit Gender Bias in Narratives through Commonsense Inference

T Huang, F Brahman, V Shwartz, S Chaturvedi. *Findings of EMNLP 2021*

Revisiting Generative Commonsense Reasoning: A Pre-Ordering Approach

C Zhao, F Brahman, T Huang, S Chaturvedi. *Findings of NAACL 2021*

A Novel Multi-Document Retrieval Benchmark: Journalist Source-Selection in Newswriting

T Huang*, A Spangher*, Y Huang*, L Spangher, S Min, M Dredze. *The Workshop on Knowledge-Augmented Methods for NLP at NAACL 2025*

Talks and tutorials

Creative Planning with LLM

May 2025

Tutorial at NAACL-HLT

Affect Theories X AI

September 2023

Hosted by Professor Dennis Tenen at Columbia University

Industry Experience

Salesforce Research

Manhattan, New York

Research Scientist Intern

Summer 2025

Microsoft's Office of Applied Research

Redmond, Washington

Research Scientist Intern

Spring 2025

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| IBM Watson Research | Yorktown Heights, New York |
| Research Scientist Intern | Summer 2024 |
| Amazon Alexa AI | Bellevue, Washington |
| Applied Scientist Intern | Summer 2023 |
| Lexis Nexis | Raleigh, North Carolina |
| Software Engineer Intern | Summer 2020 |
| Awards | |
| Outstanding Paper Award at EMNLP | 2024 |
| USC-ISI Distinguished Graduate Researcher Fellowship | 2022-2024 |
| ICML travel award | 2023 |
| NAACL travel award | 2022 |
| Stephen F. Weiss Award nomination at UNC | 2022 |
| Teaching Experience | |
| Guest Lecturer | USC |
| CSCI 662: Natural Language Processing | Fall 2024 |
| Teaching Assistant | USC |
| CSCI 561: Foundation of AI | Spring 2024 |
| Teaching Assistant | USC |
| CSCI 567: Machine Learning | Fall 2023 |
| Guest Lecturer | UNC-CH |
| COMP 590: Natural Language Processing | Spring 2022 |
| Service and outreach | |
| Area Chair: ACL, EMNLP. | |
| Reviewer: ACL, IJCNLP-AACL, EMNLP, ARR. | |