# Tenghao Huang

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| <span style="color:green">Research interests</span> | LLM Agents, Post-training, Information Retrieval |

<span style="color:green">Education</span>

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

**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

<span style="color:green">Publications</span>

(* 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.* <span style="color:red">(Oral)</span>

**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.* <span style="color:red">(Oral)</span>

**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*

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| Talks and tutorials | **Creative Planning with LLM** | May 2025 |
| | Tutorial at NAACL-HLT | |
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| | **Affect Theories X AI** | September 2023 |
| | Hosted by Professor Dennis Tenen at Columbia University | |
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| 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 Waston 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 |

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| 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 |

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| 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 |

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| Service and outreach | **Area Chair**: ACL, EMNLP. |
| | **Reviewer**: ACL, IJCNLP-AACL, EMNLP, ARR. |