

CASSIE HUANG

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EDUCATION

Drexel University

Ph.D. in Computer Science, GPA: 4.00/4.00, Advisor: Li “Harry” Zhang

Expected: December 2030

University of Pennsylvania

Master of Science in Engineering in Computer and Information Science, GPA: 3.63/4.00

May 2024

Boston University

Bachelor of Arts in Mathematics & Computer Science, GPA: 3.93/4.00

Awards and Honors: *summa cum laude*, Dean’s List (Fall 2018-Fall 2021), Thomas M. Menino Scholarship Recipient

May 2022

RESEARCH EXPERIENCE

Drexel University

Ph.D. Student working with Dr. Li “Harry” Zhang

June 2024 - Present

Philadelphia, PA

- Lead two complete research projects involving collaboration of students and faculty members across different institutions, resulting in publications in top NLP conferences [1,2].
- Leverage code-generation ability of open-sourced and closed-sourced LLMs to auto-formalize complex problems, leading to more robust and trustworthy performance than LLM agents [3].
- Conduct the first in-depth evaluation of LLM-as-formalizer in realistic planning tasks. Created planning datasets that contain different levels of language naturalness [1] and real-world constraints [2] to make planning problems more realistic. Ongoing work includes extensions to POMDPs and biosynthesis.

University of Pennsylvania

Student Researcher in the lab of Dr. Chris Callison-Burch

May 2023 - April 2024

Philadelphia, PA

- Collaborate with students and professors across multiple institutions to extract interpretable, lexical and stylistic features used for authorship attribution.
- Fine-tune BERT Sentence Transformer models to create embeddings representations of text. Embeddings are then used to extract features.

Boston University

Student Researcher in the lab of Dr. Stan Sclaroff

May 2019 - September 2019

Boston, MA

- Use videos from object tracking datasets to verify and quantify ambiguity of natural language annotations for targeted objects, and obtain new NL annotations and improve image tracking performance.
- Designed Amazon Mechanical Turk (MTurk) Experiments given to workers, using HTML, to gather information regarding descriptions for targeted objects.

PUBLICATIONS

1. CASSIE HUANG and Li Zhang. On the limit of language models as planning formalizers. In Wanxiang Che, Joyce Nabende, Ekaterina Shutova, and Mohammad Taher Pilehvar, editors, *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 4880–4904, Vienna, Austria, July 2025. Association for Computational Linguistics
2. CASSIE HUANG, Stuti Mohan, Ziyi Yang, Stefanie Tellex, and Li Zhang. Language model as planner and formalizer under constraints, 2025. Preprint; in submission to ACL 2026
3. Prabhu Prakash Kagitha, Bo Sun, Ishan Desai, Andrew Zhu, CASSIE HUANG, Manling Li, Ziyang Li, and Li Zhang. Unifying inference-time planning language generation, 2025. Preprint; in submission to ACL 2026