

# Xuyuan Liu

DARTMOUTH COLLEGE

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## Education

### Dartmouth College

PH.D. STUDENT IN COMPUTER SCIENCE,  
Advisor: Prof. Yujun Yan

Hanover, New Hampshire

Sep. 2023 - now

### Nankai University

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND TECHNOLOGY,  
Thesis: Few-shot Knowledge Retrieval Framework in multi-turn Dialogue System

Tianjin, China

Sep. 2019 - Jun. 2023

## Publication

### Exploring Consistency in Graph Representations: from Graph Kernels to Graph Neural Networks.

NeurIPS 2024

Xuyuan Liu, Yinghao Cai, Qihui Yang, Yujun Yan

### TreeMAN: Tree-enhanced Multimodal Attention Network for ICD Coding.

COLING 2022(ORAL)

Zichen Liu, Xuyuan Liu, Yanlong Wen, Guoqing Zhao, Hongbin Wang, Xiaojie Yuan

## Research Experience

### Knowledge-Grounded Dialogue System

Tianjin, China

ADVISOR: PROF. ZHENGLU YANG

Sep. 2022 - May. 2023

- Constructed reliable dialogue system, integrating reasoning processes from Knowledge Graphs to formulate responses
- Presented the Self-Contextual Representation Learning (SCRL) to enhance entity representations using historical context
- Formulated a framework designed to counteract potential over-smoothing challenges during multi-hop reasoning

## Honors & Scholarships

2023 Dartmouth Fellowship,

Dartmouth College

2022 Academic Excellence Scholarship, 7/130

Nankai U, China

2022 Scientific Research Innovation Scholarship, 3/130

Nankai U, China

## Teaching

Teaching Assistant Deep Learning

Spring, 2024

Teaching Assistant Network Science & Complex Systems

Fall, 2024

## Service

Conference Reviewer NeurIPS 2024, ICLR 2025

## Skill

**Programming** Python, C++, JAVA, Shell script

**Framework & Tools** Git, PyTorch, TensorFlow, Docker, Huggingface, LaTeX

**Language** Mandarin (native), English (Business)