YIMIN DENG

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EDUCATION

Xi'an Jiaotong University   September 2018 - September 2022
B.Sc. in Software Engineering   *Xi'an, China*
· Overall GPA: **85.09**/100, ranked **10th**/77

CentraleSupélec   September 2020 - July 2022
M.Sc. in Engineering, supported by CSC Scholarship   *Paris, France*
· CentraleSupélec is ranked **#69**(QS), **#16**(ARWUS) in World University Rankings
· Study in French and English, overall GPA: **3.33**/4.33

Xi'an Jiaotong University   September 2022 - March 2024, March 2024-Present
M.Sc. & Ph.D student in Computer Science   *Xi'an, China*
· Under the advisory of Prof.Xueming Qian and Prof.Guoshuai Zhao in SMILES Lab
· GPA: **85.2**/100

LANGUAGES AND AWARDS

- English: CET 6, IELTS **7.0**
- French: TEF B1
- Awarded a 24-month scholarship under the State Scholarship Funding, provided by China Scholarship Council(**CSC**), from 2020 to 2022
- Awarded academic scholarship every year and outstanding student award for two consecutive years during my study in Xi 'an Jiaotong University. Awraded 2nd Prize in the Shaanxi Division of the 2019 China Undergraduate Mathematical Contest in Modeling.

RESEARCH EXPERIENCE

A Contrastive Learning Framework towards Intent Discovery   October 2022 - August 2023
New Category Discovery, Natural Language Processing, Dialogue System   *Xi'an, China*
· We propose a pseudo-label enhanced contrastive and prototype learning framework. Experiments on two benchmark datasets and two task settings demonstrate the effectiveness of our approach.

New Category Discovery towards WIFI Sensing   September 2023 - March 2024
New Category Discovery, WIFI Sensing,Internet of Things   *Xi'an, China*
· We introduce new category discovery task into WiFi-based HAR for the first time, evaluate category discovery methods and proposed a method based on multi-view encoding and co-training.

LLM-enhanced Temporal Knowledge Graph Reasoning   March 2024 - Present
LLM, Temporal Knowledge Graph   *Xi'an, China*
· Our research focuses on guiding LLMs to comprehend the structural information of graphs and history sequence, enabling them to possess reasoning capabilities for downstream tasks in graph learning.

PROJECTS

Channel State Information-based Activity Recognition   May 2023-November 2023
· We collected a CSI dataset, pre-processed data and used GRU-based networks for activity recognition.

Target Tracking and Sound Generation in Live Video   September 2021-February 2022
· Track specific objects(e.g. a green stick) in live video and create sound based on their movement.

PUBLICATIONS

Yimin Deng, Yuxia Wu, Li Zhu, Guoshuai Zhao*, Xueming Qian. *Pseudo Label Enhanced Prototypical Contrastive Learning Framework towards Uniformed Intent Discovery.* Under Review.
Yimin Deng, Li Zhu, Guoshuai Zhao*, Xueming Qian. *An Incremental Learning Framework towards Human Activity Recognition Based on Channel State Information .* Work in progress.
Junbo Fu, Guoshuai Zhao*, **Yimin Deng**, Yunqi Mi, Xueming Qian. *Learn to Paraphrase to align with Model Preference.* Under Review.