# Yuchen Fan

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## EDUCATION

**Beijing University of Posts and Telecommunications**

Major: Telecommunication Engineering with Management

GPA: 3.86/4.00 (*1/321*)

Related Courses: Machine Learning(96), Programing Basic(93), Java Language Programming(94), Database Principles and Applications(94), Python Data Analysis and Visualization(92), Computer Network(95).

Minor: Intelligent Robotics, Ye Peida College of Innovation and Entrepreneurship(the college containing most intelligent and innovative students)

## HONORS & AWARDS

Second Prize in National Mathematics Competition for college students

National Scholarship in 2023

## RESEARCH EXPERIENCE

**EVA-Score: Evaluation of Long-form Summarization on Informativeness through Extraction and Validation**　　　　　　　　　　　　Dec 2023 - Apr 2024

- Propose a new evaluation metric for long-form summarization.
- Re-evaluate long-form summarization based on EVA-Score.

**Untangle the KNOT: Interweaving Conflicting Knowledge and Reasoning Skills in Large Language Models**　　　　　　　　　　　　Feb 2023 - Oct 2023

- Build a dataset called KNOT containing counterfactual knowledge.
- Use three methods, fine-tuning, decoding, and prompting to improve the ability of LLMs towards counterfactual knowledge.
- Details will be listed at https://github.com/THU-KEG/KNOT

**Evaluating Generative Language Models in Information Extraction as Subjective Question Correction**　　　　　　　　　　　　May 2023 - Oct 2023

- Propose a new evaluation metric for IE.
- Re-evaluate IE based on SQC-Score.
- Details are listed at https://github.com/THU-KEG/SQC-Score

**Explore the Ability of LLMs to Deal with Counter-intuitive Knowledge**　　　　Feb 2023 - May 2023

- Build a dataset consisting of counter-intuitive knowledge.
- Proving that LLMs cannot deal with counter-intuitive knowledge properly

## PUBLICATIONS

**Untangle the KNOT: Interweaving Conflicting Knowledge and Reasoning Skills in Large Language Models(Long Paper)**

Yantao Liu, Zijun Yao, Xin Lv, **Yuchen Fan**, Shulin Cao, Jifan Yu, Lei Hou and Juanzi Li

**LREC-COLING 2024**

**EVA-Score: Evaluation of Long-form Summarization on Informativeness through Extraction and Validation(Long Paper)**

**Yuchen Fan,** Gaochen Wu, Xin Zhong, Bowen Zhou

**Submitted to EMNLP 2024**

**Evaluating Generative Language Models in Information Extraction as Subjective Question Correction(Short Paper)**

**Yuchen Fan**, Yantao Liu, Zijun Yao, Jifan Yu, Lei Hou and Juanzi Li

## INTERNSHIP EXPERIENCE

**Center for Collaborative & Conversational Intelligence, Tsinghua University**                Dec 2023 - Present

Intern                Beijing

- Research about hallucination and tool learning
- Supervised by Gaochen Wu, a research assistant at Tsinghua University, along with Bowen Zhou

**WestlakeNLP, Westlake University**                Mar 2024 - Present

Visiting Student

- Research in Long context generation
- Supervised by Cunxiang Wang and Yue Zhang.

**Knowledge Engineering Group, Tsinghua University**                Oct 2022 - Oct 2023

Intern                Beijing

- Research in Natural Langugae Processing and Knowledge Graph.
- Supervised by Zijun Yao, a PhD student along with Juanzi Li

**Frontis**                Jul 2024 - Present

Researcher                Beijing

- Leading Quantitative Evaluation of Creativity of LLMs

## PROJECT EXPERIENCE

**NLP beginner project of Fudan University**

- Completed text classification using logistic and softmax regression.
- Improved text classification using CNN and RNN.
- Used ESIM for Natural Language Inference model training.
- Implemented LSTM + CRF for chunk tagging.
- Upheld a github repository containing all my codes and results

**Smart Treasure Hunt Car Integrated with Management Website and Pattern recognition**                Jun 2023 - Oct 2023

Beijing

Team Member

- Completed the core code and the exterior design for the smart car.
- Built a dataset and trained a yolo-v8
- Upheld a github repository

## MISCELLANEOUS

- **Programming Languages:** Quite Familiar with Python, C++. Familiar with Java, C.
- **Toolkits:** Using Pytorch and HuggingFace for model construction and fine-tuning. Using Numpy and Pandas for Data Analysis and Visualization.
- **Languages:** CET-4:631, CET-6:549, GRE:321, IELTS:7.5