

SHANG QU

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EDUCATION

University of Science and Technology of China(USTC)
School of Gifted Young (SCGY)
Bachelor of Data Science Sep. 2020 – June 2024 (expected)

ACADEMIC PERFORMANCE

GPA: 3.5/4.3 (85.7/100) **Ranking: 16/46 in Data Science Major**
- CS Courses: Data Structures (92) / Fundamental of Artificial Intelligence (92)
- DS Courses: Introduction to Database Systems (91) / Analysis and Practice of Data (91) / Algorithms for Big Data (90)
- Mathematics Courses: Linear Algebra B1 (90) / Discrete Mathematics (96)
Standardized Testing and Language:
- TOEFL: 117/120 (reading: 30, listening: 30, writing: 28, speaking: 29)
- GRE: 337/340 (verbal: 167, quantitative: 170, analytical writing: 5.0/6.0)

HONORS AND AWARDS

Qiangwei Scholarship for Academic Improvement <i>Top 5% in SCGY</i>	Dec. 2022
Outstanding Student Scholarship (Gold) <i>Top 2/47 in Class 01 of SCGY</i>	Nov. 2022
Outstanding Student Scholarship (Bronze) <i>Top 15/48 in Class 01 of SCGY</i>	Dec. 2021
Outstanding Freshman Scholarship	Sep. 2020

RESEARCH EXPERIENCE

USTC, Advisor: Professor Qi Liu	Oct. 2022 – May 2023
Prompt Tuning Pretrained Language Models for Recommendation Tasks	
- Achieved state-of-the-art results by using PLMs to approach sequential recommendation tasks. Enhanced performance by using textual information on item content.	
- Built a PyTorch model implementing hybrid prompt templates and verbalizers for recommendation tasks.	
Columbia University NLP Lab, Advisor: Professor Zhou Yu	May 2023 – present
Developing Dialogue Systems for English Language Learning	
- Used large language models to generate synthetic dialogue data tailored for the language learning objective.	
- Fine-tuned conversational models to develop dialogue systems for English language learning. Conducted extensive user studies with Chinese university students.	
Fictional Interactive Conversation Generation with Large Language Models	
- Used large language models to role-play fictional characters and conduct persona-consistent dialogues surrounding fictional events.	

- Proposed a novel framework and prompting strategies to facilitate coherent, engaging conversations. Allowed the user's input to influence future events and conversations.

PUBLICATIONS

Reformulating Sequential Recommendation: Learning Dynamic User Interest with Content-Enriched Language Modeling May 2023

<https://arxiv.org/pdf/2309.10435.pdf> (Under Review)

Junzhe Jiang, Shang Qu, Mingyue Cheng, Qi Liu, Zhiding Liu, Hao Zhang, Rujiao Zhang, Kai Zhang, Min Gao

Curriculum-Driven Edubot: A Framework for Developing Language-Learning Chatbots Through Synthesizing Conversational Data Sep. 2023

<https://arxiv.org/pdf/2309.16804.pdf> (Under Review)

Yu Li*, Shang Qu*, Jili Shen, Shangchao Min, Zhou Yu

SERVICE

- Conference Reviewer: ACL ARR 2023

VISITING AND EXCHANGE EXPERIENCE

Oxford Prospects Program (STEM) Feb. 2022

- Presented on the applications of statistics and machine learning in sports.
- Spoke as a student representative in the closing ceremony.

LEADERSHIP AND COMMUNITY OUTREACH

Leader of University Debate Team Aug. 2022 – Aug. 2023

- Organized two university debate tournaments.
- Led the team in a provincial debate competition.

SKILLS

- C / C++ / Python / SQL
- PyTorch / Hugging Face