

SHANG (LINDSAY) 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)

HONORS AND AWARDS

Qiangwei Scholarship for Academic Improvement

Dec. 2022

Top 5% in SCGY

Outstanding Student Scholarship (Gold)

Nov. 2022

Top 2/47 in Class 01 of SCGY

Outstanding Student Scholarship (Bronze)

Dec. 2021

Top 15/48 in Class 01 of SCGY

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 https://arxiv.org/pdf/2309.10435.pdf (Under Review)	May 2023
Junzhe Jiang, <u>Shang Qu</u> , Mingyue Cheng, Qi Liu	
Curriculum-Driven Edubot: A Framework for Developing Language-Learning Chatbots Through Synthesizing Conversational Data https://arxiv.org/pdf/2309.16804.pdf (Under Review)	Sep. 2023
Yu Li*, <u>Shang Qu</u> *, Jili Shen, Shangchao Min, Zhou Yu	

SERVICE

Conference Reviewer:

- ACL ARR 2023

VISITING AND EXCHANGE EXPERIENCE

Oxford Prospects Program (STEM)	Feb. 2022
<ul style="list-style-type: none"> - Presented on the applications of statistics and machine learning in sports. - Spoke as a student representative in the closing ceremony. 	

OTHER ACTIVITIES

Leader of University Debate Team	Aug. 2022 – Aug. 2023
<ul style="list-style-type: none"> - Organized two university debate tournaments. - Led the team in a provincial debate competition. 	

SKILLS

Programming:

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

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)