XIAOHAN XU, 许肖汉

(+86) 17753073352 · Homepage · shawnxxh@gmail.com · Github

Bio

I am a second-year graduate student at Information Institute of Engineering (IIE), UCAS, mentored by Prof. Hongbo Xu. I am self-motivated and actively dedicated to my studies. Furthermore, I possess good planning skills and have the ability to set clear goals. My research interests focus on language models and knowledge graphs.

EDUCATION

UCAS, Information Institute of Engineering, M.S, GPA: 3.84/4	2021.9 - 2024.6 (expected)
Illinois Institute of Technology, Big Data, Summer Research	2019.7 - 2019.9
University of Alberta, School-sponsored Exchange Program	2018.7 - 2018.8
Beijing Institute of Technology , Automation, <i>B.E.</i> , GPA: 89.1/100;	2017.9 - 2021.6

AWARDS & HONORS

• National Scholarship (<2%), National Encouragement Scholarship (<5%), BIT Excellent Student Model

SKILLS

- Tools: Python, Pytorch, Shell, Transformers, Deepspeed, LATEX, Git, Linux, GDB
- English: TOEFL (90), GRE (324)
- Math: Higher Math. (96), Linear Algebra (94)

INTERNSHIPS

Baidu Inc. | XiaoDu Cloud Research Intern

2022.11-now

- Intelligent Exam Solving Model: Unify and solve K-12 multi-subject & multi-type exams.
 - Instruct Tuning: 1) Construct chinese instruct data; 2) Instruct-tuning based on exam and instruct data.
 - Knowledge Injection: 1) Probe LM scarce knowledge; 2) Inject corresponding knowledge by post-training.

BAAI | Recognition & Data Group Research Intern

2022.4-2022.10

- Supervised by Dr. Yequan Wang
- Emotional Support Conversation (ESC): Design a dialogue system for emotional support.
 - Prior Knowledge Enhance: Mine rich prior knowledge from relevant conversations as guidance for current response and strategy.
 - **Diversity & Denoising**: Introduce latent variables to improve diversity and denoise exemplars. Get SOTA.
- **Pretrained LM & KG**: Explore to pre-train language model enhanced with knowledge graphs by in-batch contrastive learning and multi-task learning on link prediction and MLM.

RESEARCH

Inductive KG Link Prediction IJCAI 2022 Long Presentation GitHub

2021.7-2022.1

- **Intro.**: Work on predicting missing links between unseen nodes by their subgraph.
- **Model**: Model neighboring relations of unseen nodes w.r.t. node feature and path feature, and model global representation with mutual information maximization between local and global views. Get SOTA.

PUBLICATION

- Xiaohan Xu, Peng Zhang, Yongquan He, Chengpeng Chao, Chaoyang Yan. Subgraph Neighboring Relations Infomax for Inductive Link Prediction on Knowledge Graphs. Long presentation (25%) at IJCAI 2022
- Xiaohan Xu, Xuying Meng, Yequan Wang. PoKE: Prior Knowledge Enhanced Emotional Support Conversation with Latent Variable. Preprint 2023

SERVICE

• Volunteer Teaching: I volunteered at a local school for children of migrant workers once a week during my 1st and 2nd years. In my 2nd year, I also went to teach in a rural area in Bozhou, Anhui.