ZUJIE LIANG

Email: jokieleung@outlook.com
Academic Page: [Google Scholar] [DBLP]
Homepage: https://jokieleung.github.io/

EDUCATION

Sun Yat-Sen University (SYSU), China *2019 - 2022*
M.S. in Information and Communication Engineering

Wuhan University of Technology (WHUT), China *2015 - 2019*
B.Eng. in Communication Engineering

RESEARCH BACKGROUND

Now I'm working on Automatic Knowledge Graph Construction for supply chain mining. My previous research broadly lies at the intersection of Natural Language Processing and Computer Vision, with a focus on three areas: 1) multimodal bias reduction; 2) open-ended Conversational AI; 3) flexible/controllable text generation. I am very interested in understanding various human-centric properties of AI models, such as interpretability, generalization, causality, fairness and bias. In my spare time, I maintain Awesome-Visual-Question-Answering, which is a curated list of papers in the field of Visual QA (570+ stars now).

RESEARCH & WORK EXPERIENCES

Ant Group Hangzhou, China
Researcher *July. 2022 - Present*

· Research on supply chain mining with KG and NLP techniques.

Microsoft Beijing, China
NLP Research Intern, Supervised by Huang Hu and Dr. Daxin Jiang *Oct. 2020 - June 2021*

· Research on generative chatbot for *Chat with Bing* Project.

Alibaba Beijing, China
Ads Algorithm Engineer Intern *June 2021 - Sept. 2021*

· Investigate the AI techniques for Computational Ads in the E-commerce business, mainly on pCVR calibration.

HUAWEI Shenzhen, China
Software Development Engineer Intern *June 2018 - Aug. 2018*

PUBLICATIONS

1. **Zujie Liang**, Feng Wei, Jie Yin, Yuxi Qian, Zhenghong Hao, Bing Han. "Prompts Can Play Lottery Tickets Well: Achieving Lifelong Information Extraction via Lottery Prompt Tuning". *Proceedings of the 61th Annual Meeting of the Association for Computational Linguistics (**ACL**)*, 2023.

2. **Zujie Liang***, Huang Hu*, Can Xu, Chongyang Tao, Xiubo Geng, Yining Chen, Fan Liang, Daxin Jiang. "Maria: A Visual Experience Powered Conversational Agent". *Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (**ACL**)*, 2021. [PDF] [Code] [Slides]

3. **Zujie Liang***, Huang Hu*, Can Xu, Jian Miao, Yingying He, Yining Chen, Xiubo Geng, Fan Liang, Daxin Jiang. "Learning Neural Templates for Recommender Dialogue System". *Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (**EMNLP**)*, 2021. [PDF] [Code]

4. **Zujie Liang**, Haifeng Hu, Jiaying Zhu. "LPF: A Language-Prior Feedback Objective Function for Debiased Visual Question Answering". *Proceeding of 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR**)*, 2021. [PDF] [Code] [Slides]

5. **Zujie Liang**, Weitao Jiang, Haifeng Hu, Jiaying Zhu. "Learning to Contrast the Counterfactual Samples for Robust Visual Question Answering". *Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (**EMNLP**)*, 2020. [PDF] [Code] [Slides]

6. **Zujie Liang**, Fan Liang. "TransPCC: Towards Deep Point Cloud Compression via Transformers". *Proceedings of the 2022 ACM International Conference on Multimedia Retrieval (**ICMR**)*, 2022.

AWARDS AND HONORS

1. Offered an ACM SIGIR 2021 Student Travel Grant, Canada
2. ICCV 2019 Wider Challenge Track Four, invited for poster demonstration, Rank 5th, Korea [leaderboard]
3. Academic Excellence ScholarShip, SYSU, 2020-2021, China
4. Outstanding Graduate Award, WHUT, 2019, China
5. National University Student Science Contest on Energy Saving & Emission Reduction, 3rd Prize, China

PROFESSIONAL SERVICES

Reviewer: ICLR 2023, EACL 2023, ACL 2022, NLPCC 2022/2021, IJCAI 2021

SKILLS

Coding:
Python, C/C++, Linux, Pytorch, Tensorflow, Latex

Languages:
English (Fluent), Chinese (Native Speaker), Cantonese (Native Speaker)

MISCELLANOUS

Fan of basketball/NBA. I am impressed by the application progress of AI in basketball, such as the HomeCourt APP. I also love traveling, hiking, and other outdoor events. Silicon Valley is the funniest TV series I have ever watched. Codes for my published papers are available on my GitHub (685+ stars, 56 followers).