Zhenyu Lei

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EDUCATION

Xi'an Jiaotong University，Physics，*bachelor*   2019.9 - 2023.7

- Physics Experimental Class (Qian Xuesen Honor Science)
- GPA : 89.5/100 (3.82/4.3)
- CET-4: 622 / CET-6: 589

RESEARCH EXPERIENCE

LUD lab *Xi'an Jiaotong University*   2021.9 – now

- Learn machine learning, basic knowledge of neural network and cutting-edge knowledge of natural language processing in this lab. Read several papers about machine question answering. Reproduce classic papers DPR. **Master basic research skills.**
- In the laboratory, advised by mentor Minnan Luo to conduct social network analysis research, during which time, participate in a paper on the detection of social media political stance "KCD: Knowledge Walks and Textual Cues Enhanced Political Perspective" published in NACCL 2022. Mainly discuss the design of ablation experiments and draw diagrams of the paper. **Master the ability to cooperate, communicate and design papers.**
- Write a paper on Twitter fake account detection as the first author "BIC: Twitter Bot Detection with Text-Graph Interaction and Semantic Consistency". In this paper, the method of image and text fusion is proposed for the first time for Twitter robot detection and a semantic consistency detection enhancement model is proposed. The paper is being submitted and under review. **Master the ability to write essays in English.**
- Participate as a co-second author on a paper on Twitter's fake account dataset "TwiBot-22: Towards Graph-Based Twitter Bot Detection". Mainly deal with some data collection and production and data set comparison experiments in existing fields. The paper will be published in NeurIPS 2023. **Master the ability to process big data.**
- During the time in the laboratory, chair a national-level entrepreneurship project on the detection of fake accounts in social networks. **Master some management and coordination skills.**

Lei Ming's lab *Xi'an Jiaotong University*   2020.10 – 2021.4

- During this lab, learn basic digital image processing theory, read several English papers on the propagation of relief grating light, and derived strict coupled wave equations and other scattering equations.**Master a little theoretical research ability**
- Follow the laboratory to design and implement a high-precision optical multi-cell UV microbeam instrument. Mainly participate in the design of some software interfaces. Deal with the writing of the manual and the writing of the "Tengfei Cup" work application form of Xi'an Jiaotong University.**Master the ability to write manuals and documents.**

HONORS

- Xi'an Jiaotong University Outstanding Sichuan Student Scholarship   2021
- Selected into Baidu Big Data Elite Class   2021
- Selected into the Yan Keats class of the Institute of Physics, Chinese Academy of Sciences   2021
- Xi'an Jiaotong University & UC Berkeley Secondary Exchange Scholarship   2021
- Outstanding Student of Xi'an Jiaotong University   2021
- National College Students Mathematical Contest in Modeling, First Prize of Shaanxi Province   2020
- Outstanding Student of Xi'an Jiaotong University   2020

PAPERS

- KCD: Knowledge Walks and Textual Cues Enhanced Political Perspective
  W Zhang, S Feng, Z Chen, Z Lei, J Li, M Luo (NAACL2022)
- BIC: Twitter Bot Detection with Text-Graph Interaction and Semantic Consistency
  Z Lei, H Wan, W Zhang, S Feng, Z Chen, Z Hua, M Luo
- TwiBot-22: Towards Graph-Based Twitter Bot Detection
  S Feng, Z Tan, H Wan⋯(Multiple authors)

RESEARCH INTEREST

- NLP，Social Network Analysis，MLQA
- Blockchain，Fintech