Pengzhan Sun

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EDUCATION

Undergraduate, Mathematics-Physics Fundamental Science (Artificial Intelligence Specialization), YINGCAI Honors College & School of Mathematical Sciences, University of Electronic Science and Technology of China (2018.09 – present)

- Grade: GPA: **3.92** / 4.00
  Rank: **5** / 23
  4.00 courses: **49** / 54
- Award: First-class Outstanding Student Scholarship (2/23)
  Academic Model Scholarship
- English: CET-4:   624
  IELTS: 7.0
  GRE: 316 + 3.0

RESEARCH EXPERIENCE

Supervisors: Prof. Wen Li & Prof. Lixin Duan, Data Intelligence Group, UESTC; Principle Research Staff Member Chuang Gan & Postdoctoral Researcher Bo Wu, MIT-IBM Waston AI Lab

Counterfactual Debiasing Network for Compositional Action Recognition (2021.2 – 2021.4)

- **The first author**, responsible for model design, programming and paper writing, etc.
- Remove the bias while keeping effective cues in compositional action recognition with the help of counterfactual thinking
- Submitted on 29th ACM International Conference on Multimedia (Under review)

Mining Potential Subject-object Pairs on Compositional Action Recognition (2020.10 - present)

- The third contributor, responsible for data processing, idea discussion and partial code implementation
- Aimed for finding a revolutionary representation of action, which can be easily generalized to new subject-object interaction pairs

Research Intern in Data Intelligence Group, UESTC (2020.6 - present)

- Courses learning of Machine Learning (Coursera by Andrew Ng) and Computer Vision (cs231n)
- Paper reading of a wide range of papers, including but not limited to transfer learning, few-shot learning and causality in vision
- Helped to review research papers, including two papers from IJCAI 2021 and two papers from ICME 2021
- Served as a remote research intern under the close guidance of Dr. Bo Wu (2020.12 - present)

ADDITIONAL EXPERIENCE

Introduction to Artificial Intelligence, UESTC, Teaching Assistant (2021.4 - present)

- Mainly responsible for reinforcement learning and other frontier technologies e.g. NAS, graph neural network and adversarial examples

National University of Singapore Innovation Management Visiting Training Project (2019.8)

- Visited the National University of Singapore and completed the innovation management training project
- Enterprise training in Singapore iSPACE, received a paper recommendation letter (**top 1 team**) from Li Yun Yi because of the outstanding innovation and feasibility of our One Last Mile Campus Express proposal

Psychological Growth Project in UESTC (2019 - 2021)

- Served as a psychological peer counsellor of class
- Received professional training (preliminary stage) in peer counseling and psychological growth

OTHER SKILLS

Python, R and SQL