XIASI WANG

(86)151-5601-7806 ◇ xwangfy@connect.ust.hk ◇ linkedin.com/in/wxs

EDUCATION

The Hong Kong University of Science and Technology — Hong Kong SAR
Ph.D. in IIP (Data Science and Analytics) — 2020.09 – 2024.06
Research interests: Machine Learning, Representation Learning

University of Science and Technology of China — Hefei, China
B.S. in Statistics — 2016.09 – 2020.06
Honors: Outstanding Undergraduate Academic Scholarship (2017–2019, top 30%)

INTERNSHIP

Huawei Noah's Ark Lab — Shenzhen, China
Artificial Intelligence Researcher Intern — 2022.04 – 2023.04

- Focused on self-supervised learning and researched the multi-view perspective of self-supervised learning in computer vision area
- Refined multi-view information bottleneck by developing novel multi-view entropy bottleneck method to obtain the minimal sufficient representation with better performance
- Conducted empirical studies to explore the behaviors of MVEB; validated the superiority of MVEB on ImageNet classification linear evaluation protocol (76.9% top-1 acc. with ResNet-50 backbone, so far the best) and extensive downstream tasks including transfer learning and object detection
- **Manuscript**: MVEB: Self-Supervised Learning with Multi-View Entropy Bottleneck, 2022

PROJECTS

The Hong Kong University of Science and Technology — Hong Kong SAR
Negatives Selection for Contrastive Learning — 2021.12 – 2022.04

- Researched the selection criterion of negative samples in contrastive learning
- Used quantitative analysis to find that the semi-hard negatives play an important role in contrastive learning; disclosed an exponential decaying relation of hardness vs false rate
- Proposed a hardness-aware debiasing method based on the observed relation to mitigate the side effect of false negatives; achieved an improvement of 2%-3% top-1 acc. on Cifar-10/100 classification

University of Science and Technology of China — Hefei, China
Systemic Risk Contagion of Financial Network — 2019.07 – 2020.01

- Investigated a risk contagion model for financial networks which triggers the contagion before default
- Replicated the risk contagion model using R language; collected the data of chinese commercial bank network to empirically study the financial risk contagion model
- Explored the model's sensitivity to its parameters
- **Publication**: Solvency Contagion Risk in the Chinese Commercial Bank Network, *Physica A*, 2021

COMPUTATIONAL SKILLS & OTHERS

Programming Languages	Python (Numpy, Pandas, Matplotlib), R, Linux (basic)
Languages	Mandarin, English
Technical Skills	Deep Learning (Pytorch)
Leadership	Students' Union of School of Management, USTC (Vice President)