Minghao (Spike) Fu

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RESEARCH INTEREST

Causal Discovery, Causality-inspired ML, Structural Learning, Trustworthy AI

EDUCATION

Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi, UAE
M.S. in Machine Learning Aug 2023 - Present
Supervisor: Kun Zhang

University of Electronic Science and Technology of China, Chengdu, China
B.S. in Software Engineering Sep 2019 - June 2023
Research Advisor: Jie Shao
GPA: 3.74/4.00

PREVIOUS APPOINTMENT

Mohamed bin Zayed University of Artificial Intelligence, Abu Dhabi, UAE
Research Assistant, Department of Machine Learning
Causal Discovery, Causality-inspired ML, Trustworth AI
Research Advisor: Kun Zhang & Biwei Huang May 2023 - Aug 2023

Shanghai AI Lab, Shanghai, China
Research Intern, Ark NLP Group
Long Text generation from the non-autoregressive perspective.
Research Advisor: Jiangtao Feng & Fei Yuan Nov 2022 - Mar 2023

University of Electronic Science and Technology of China, Chengdu, China
Undergraduate Research Assistant, Center For Future Media Lab
Model compression, Computer Vision, Meta Learning
Research Advisor: Jie Shao Apr 2022 - Aug 2022

SAP, Chengdu, China
Cloud Developer Intern Jan 2022 - Mar 2022

PAPERS

Undergraduate Period

Minghao Fu, Dongyang Zhang, Min Lei, Kun He, Changyu Li, Jie Shao. "Wide Feature Projection with Fast and Memory-Economic Attention for Efficient Image Super-Resolution". In *Birtish Machine Vision Conference* (BMVC), 2022

Minghao Fu, Xin Man, Yihan Xu, Jie Shao. "ESTISR: Adapting Efficient Scene Text Image Super-resolution for Real-Scenes". In CoRR, abs/2306.02443, 2023

RESEARCH PROJECTS

Time-varying Causal Discovery On Climate Data
MBZUAI & CMU & UCSD & USC Aug 2023 - Present

Trustworthy AI for Healthcare: Letting Baby Talk to You
MBZUAI & CMU & USYD May 2023 - Nov 2023

Towards Lightweight and Efficient Image Super-Resolution (Undergraduate Thesis)
Center For Future Media Lab, UESTC May 2022 - May 2023

Microsoft News Recommendation and Intelligence
Microsoft Research Asia & UESTC Jan 2022 - Mar 2022

LMap: A Variant Associative Container by Red-Black Trees
Sinux & UESTC Sep 2021 - Nov 2021

Object Distance Estimation Using a Monocular Camera
UESTC Jan 2021 - Aug 2021

AWARDS AND HONORS

Outstanding Undergraduate Thesis Awards (Top 5%) Jun 2023

Honor Research (Top 1%) Jun 2023

Champion in The Human Phenotype Project Hackathon, Weizmann Institute of Science & MBZUAI May 2023

Undergraduate Advanced Study Award May 2023

Undergraduate High-Level Paper Award (Top 1%) Apr 2023

First Prize in China College Student Computer Design Competition Sep 2022

UESTC scholarship Sep 2022

First Prize in China College Students Innovation and Entrepreneurship Competition Jun 2021

TALKS AND PRESENTATIONS

Year 2022

BMVC 2022: "Wide Feature Projection with Fast and Memory-Economic Attention for Efficient Image Super-Resolution", London, UK Nov 2022

Undergraduate Research Experience Sharing Session, Chengdu, China Sep 2022