# 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

**NAT-L: Non-autoregressive Long Text Generation**
Shanghai AI Lab  Nov 2022 - Mar 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

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| 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

**UESTC Outstanding Student 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