

JUN TIAN

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SUMMARY

A highly self-motivated student, who is expected to receive a bachelor's degree in data science in 2024 and eager to pursue a doctorate. In previous scientific research experiences, have enriched theoretical system and mastered problem-solving ability. Hope to delve deep into the field of computer vision. Always aim for a big-picture target, and enjoy creating a solid, detail-oriented plan to get there.

EDUCATION

University of California, Berkeley

Berkeley, CA

Berkeley Global Access, Visiting Undergraduate Student

Spring 2023

Relevant Coursework: CS61C (Machine Structure), CS182 (Neural Networks), CS267 (Parallelization).

University of Electronic Science and Technology of China,

Chengdu, CN

Bachelor of Data Science

Sep 2020 - Jun 2024

Samsung Scholarship, Outstanding Student Scholarship. GPA: 3.99/ 4.0

Relevant Coursework: Machine Learning, Computer Vision, Artificial Intelligence

RESEARCH EXPERIENCE

University of Electronic Science and Technology of China

Jan 2022 - Nov 2022

Undergraduate Research Assistant with Guoqing Wang & Jingjing Li

Chengdu, CN

- Introducing imbalances into open set domain adaptation.
- Exceeded average 4% on the benchmarks and achieved new state-of-the-art.
- Conducted a large number of comparative experiments and revised the paper.

University of Electronic Science and Technology of China

Sep 2021 - Dec 2021

Undergraduate Research Assistant with Junming Shao

Chengdu, CN

- Assisted with a doctoral student to implement various comparative experiments.
- Verified the reliability and effectiveness of the proposed method.
- Repeatedly check and assisted in polishing paper writing.

PUBLICATION

Imbalanced Open Set Domain Adaptation via Moving-threshold Estimation and Gradual Alignment

Jinghan Ru, **Jun Tian**, Zhekai Du, Chengwei Xiao, Jingjing Li, Heng Tao Shen

arXiv:2303.04393.

Learning multiple gaussian prototypes for open-set recognition

Jiaming Liu, **Jun Tian**, Wei Han, Zhili Qin, Yulu Fan, Junming Shao

Information Sciences. ISSN 0020-0255.

PROJECT

Surrogate Task Design Based on Diffusion Model

Mar 2023 - May 2023

- Working as a project leader to organize the team
- Designed a series problems with detailed solutions to help students understand
- Implemented a simple and comprehensive demo to show the process of diffusion model

Generation of sketching matrices for RandBLAS

Mar 2023 - May 2023

- Applying random number generator to directly get sketching of large matrices for random linear algebra
- Utilizing OpenMP to achieve multi-threaded parallel accelerated computing
- Conducting code experiments and optimization, and assist in report writing

Deep Learning in Computer Vision

Jan 2021 - Feb 2021

An online program organized by MIT, taught by Prof.Suvrit Sra, Dr. Alexander Amini, and Dr. Ray Liao.

- Serve as the project team leader, organize the entire work.
- Implemented DeepLabv3+ to achieve semantic segmentation on the Cityscape dataset.
- Carried out the interpretability analysis for the segmentation mode.

LEADERSHIP

- Vice President of Microsoft Student Club, organize and share scientific and technological knowledge
- Deputy monitor of the administrative class, engaged in relevant student work

SKILLS & LANGUAGES

Technical Skills	Python, C, C++, Pytorch, Parallelization (including OpenMP, MPI, CUDA and UPC++), RISC-V, SQL, Machine Learning, Web Crawler, HTML
Soft Skills	A planner and a doer, Able to concentrate for long periods of time Highly self motivated, Ability to work in a team
Languages	English(intermediate, Duolingo 115), Chinese(Native Speaker)