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 Student. GPA:4.0/4.0   *Spring 2023*
Relevant Coursework: CS61C(A), CS182(A), CS267(A).

University of Electronic Science and Technology of China,   **Chengdu, CN**
Bachelor of Data Science GPA: 3.99/ 4.0   *Sep 2020 - Jun 2024*
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
IEEE Transactions on Multimedia.

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.

AWARDS

- Samsung Scholarship *2021*

- Outstanding Student Scholarship *2021-2023*

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), Mandarin(Native Speaker)