

# JUN TIAN

+86 135 8882 7011 ◊ Chengdu, CN

[jun.tian.re@gmail.com](mailto:jun.tian.re@gmail.com) ◊ [linkedin.com/in/jun-tian-ca](https://www.linkedin.com/in/jun-tian-ca) ◊ [jun-tian.github.io](https://github.com/jun-tian)

## SUMMARY

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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

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### University of California, Berkeley

*Berkeley Global Access, Visiting Student.* GPA:4.0/4.0

Relevant Coursework: CS61C(A), CS182(A), CS267(A).

**Berkeley, CA**

*Spring 2023*

### University of Electronic Science and Technology of China,

*Bachelor of Data Science* GPA: 3.99/ 4.0

Relevant Coursework: Machine Learning, Computer Vision, Artificial Intelligence

**Chengdu, CN**

*Sep 2020 - Jun 2024*

## RESEARCH EXPERIENCE

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### University of Electronic Science and Technology of China

Undergraduate Research Assistant with Guoqing Wang & Jingjing Li

Jan 2022 - Nov 2022

*Chengdu, CN*

- Introducing imbalanced problem into open set domain adaptation.
- Proposing novel framework for OSDA and exceeding average 4% on the benchmarks.
- Conducting an extensive array of comparative experiments to validate the proposed method's effectiveness.

### University of Electronic Science and Technology of China

Undergraduate Research Assistant with Junming Shao

Sep 2021 - Dec 2021

*Chengdu, CN*

- Using multiple Gaussian prototypes to represent complex class distributions.
- Incorporating generative and discriminative constraints to enhance the effectiveness of the prototypes.
- Validating the method's reliability and effectiveness on various datasets experimentally.

## PUBLICATION

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### 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

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### 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

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- Samsung Scholarship *2021*
- Outstanding Student Scholarship *2021-2023*

## LEADERSHIP

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- 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

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