Jiazhen Xu

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Self-Introduction

I'm **self-motivated** and **determined** with a strong desire for a **PHD** degree in **Computer Science**. I firmly believe that ardent love brings me invincible faith to fulfil every choice and commitment. Coding, music, and sports, the three major components of my life, are really where my passion lies. Besides, I am always prepared to explore possibilities instead of staying at my comfort zone.

Education

Zhejiang University & University of Illinois at Urbana–Champaign	Sep. 2019 – Jun. 2023
Bachelor of Science in Computer Engineering (double degree)	**CGPA: 3.90/4.0**
Exchange at University of Illinois at Urbana-Champaign	Jan. 2022 – Jun. 2022

Publications

Preprint Paper

[Pub1] Hu W., Liu Y., **Xu J.**, Chen X., Wang G. Learn Discrimination From Contaminated Data: Multi-Instance Learning With Convex Representation for Unsupervised Anomaly Detection. Submitted to *ICME 2022*.

Selected Projects and Research

Multi-Instance Learning for Unsupervised Anomaly Detection. [Pub1] | *Python* Jun. 2021 - Sep. 2021
Advisor: Prof. Gaoang Wang, Zhejiang University

- Propsed anomaly discrimination learning with pseudo normality score generation and multi-instance contrastive learning for distinguishing abnormal samples from the unlabeled set.
- Combined the discrimination learning with mean-shifted contrastive learning and distribution-shifting transformation classification into a multitask representation learning framework to improve the stability and robustness of the training.

FPGA based Game Design: BOXHEAD3: 2 Players | *System Verilog* Dec. 2021
Advisor: Prof. Chushan Li, Zhejiang University & Prof. Zuofu Chen, UIUC (Final project design of ECE385)

- More detailed information can be found here: [Source code]

Selected Honors and Awards

Zhejiang University Scholarship - Second Prize	2021
Top 8% students in Zhejiang University	
Mathematical Competition of Senior High School of China - First Prize	2018
Ranking of 21 in Heibei Province	

Skills

Programming Languages: Python, C, C++, System Verilog, HTML, Latex

Tools: PyTorch, CUDA

Teaching Assistant Experience

Math 241 (Calculus III): Basic Linear Algebra, Vector Functions, Multivariate Calculus, Vector Fields

Extracurricular Activities

Champion of Zhejiang University International Campus Football Cup as the **captain**	2020, 2021
Golden Shoe winner of Zhejiang University International Campus Football Cup	2020, 2021
Silver Medalist of mixed doubles in Zhejiang University International Campus Badminton Cup	2019
Bronze Medalist of men's 110 m hurdle at Zhejiang University Sports Meeting	2021

SELECTED COURSES

I get A/A+ in all 13 major courses since my sophomore year! Some of them are listed:

ECE 374   A+
Intro to Algorithms and Models of Computing

ECE 385   A+
Digital Systems Laboratory

CS 225   A+
Data Structure

Math 213   A+
Discrete Mathematics

ECE 408   A
Parallel Programming

ECE 220   A
Computer Systems and Programmings

ECE 313   A
Probability with Engineering Applications

Math 286   A
Differential Equation Plus

Math 241   A
Calculus III