

# 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

<b>Zhejiang University &amp; University of Illinois at Urbana-Champaign</b>	Sep. 2019 – Jun. 2023
Bachelor of Science in Computer Engineering (double degree)	<b>CGPA: 3.92/4.0</b>
<b>Exchange at University of Illinois at Urbana-Champaign</b>	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

- Proposed 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]
- You are sincerely invited to watch the demo video here: [Demo].

## 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, Function of Multi-Variables, Measure Theory, Integral with Parameters, Curve and Surface Integral, Vector Fields

## EXTRACURRICULAR ACTIVITIES

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

## SELECTED COURSES

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

<b>ECE 374</b>	A+
Intro to Algorithms and Models of Computing	
<b>ECE 385</b>	A+
Digital Systems Laboratory	
<b>CS 225</b>	A+
Data Structure	
<b>Math 213</b>	A+
Discrete Mathematics	
<b>ECE 408</b>	A
Parallel Programming	
<b>ECE 220</b>	A
Computer Systems and Programmings	
<b>ECE 313</b>	A
Probability with Engineering Applications	
<b>Math 286</b>	A
Differential Equation Plus	
<b>Math 241</b>	A
Calculus III	