

Xinheng Ding

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Education

University of Science and Technology of China (USTC)	Aug 2020 – Present
<i>Major in Automation, School of Information Science and Technology</i>	<i>Hefei, Anhui, China</i>
GPA:3.61/4.30 Curriculum Weighted Average Score:86.51 Rank:12/79	TOEFL:83

Research Experience

AI-Based Preprocessing Technologies for JPEG Image Coding	Apr, 2022 – Present
<i>Intelligent Visual Data Coding Laboratory, USTC</i>	<i>Hefei, Anhui</i>
<ul style="list-style-type: none">• Build a dataset of JPEG-compressed images.• Design an image preprocessing network to reduce artifacts caused by JPEG.	
An international cooperation project in AI-Cardiology	Jan, 2023 – Feb, 2023
<i>Wang's Group, USTC & Stanford University</i>	<i>Hefei, Anhui</i>
<ul style="list-style-type: none">• Test and improve the performance of diagnostic and screening model based on CMR data.	
Remote Summer Intern	Jun, 2023 – Present
<i>Visual Informatics Group @ University of Texas at Austin</i>	
<ul style="list-style-type: none">• Attempt to build a method for using coreset to perform backdoor defense	

Coursework Experience

Introduction to Multimedia Content Intelligent Analysis	Feb, 2022 – Jun, 2022
<i>University of Science and Technology of China (USTC)</i>	<i>Hefei, Anhui</i>
<ul style="list-style-type: none">• Have a preliminary understanding of DL in image retrieval, social multimedia content analysis, visual object detection, etc.• Complete a programming project for video face tamper detection.	
Deep Learning Practice	Aug, 2022 – Dec, 2022
<i>University of Science and Technology of China (USTC)</i>	<i>Hefei, Anhui</i>
<ul style="list-style-type: none">• Practice Python programming and application in image processing, network programming, etc.• Learn how to use the deep learning framework Pytorch and train deep neural networks to solve specific problems.• Reproduce an AI-cardiology project on semantic segmentation and cardiac function assessment.	
Introduction to Artificial Intelligence	Aug, 2022 – Dec, 2022
<i>University of Science and Technology of China (USTC)</i>	<i>Hefei, Anhui</i>
<ul style="list-style-type: none">• Learn the basic principles and techniques for representative AI problems, including problem-solving, inference and programming, machine learning, etc.	

Awards & Honors

National Encouragement Scholarship

Department of Education of Anhui province, China

2020-2021, 2021-2022

Cyrus Tang Scholarship

Cyrus Tang Foundation

2020-2021, 2021-2022

Outstanding Students Scholarship

University of Science and Technology of China

2020-2021

The Inspiring Star

University of Science and Technology of China

2020-2021

Freshmen's Representative of class 2020

University of Science and Technology of China