

# XIANGCHI YUAN

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## EDUCATIONS

<b>Brandeis University</b> M.S. in Computer Science • Cumulative GPA: 3.67/4.0	Waltham, MA, U.S. 08/2022-05/2024
<b>University of Electronic Science &amp; Technology of China (UESTC)</b> B.Eng. in Electronic and Information Engineering • Cumulative GPA: 3.55/4.0 Major GPA: 3.8/4.0	Chengdu, Sichuan, China 09/2018-06/2022

## RESEARCH EXPERIENCE

<b>DRAGON: Towards Scalable and Anti-degraded Graph Robust Learning</b> RA   advised by Prof. Chuxu Zhang, Brandeis University • Revealed the connection between differential privacy and GNN robustness, and the idea of differential privacy is applied to GNN to significantly improve the robustness of GNN against adversarial examples. • Introduced the mixture-of-experts model to GNN layer to select the better DP expert among the experts trained with different DP parameters to achieve better accuracy in the inference stage. • Proposed Denoise Masked Graph Auto-encoder to remove malicious edges of the attacked graph. • Submitted to SIGKDD 23' as the 1 <sup>st</sup> author.	09/2022-2/2023 Waltham, MA, U.S.
<b>An End-to-End 12-Leading Electrocardiogram Diagnosis System Based on Deformable Convolutional Neural Network With Good Antinoise Ability</b> RA   advised by Prof. Guotai Wang, UESTC • Preprocessed Data, completed assigned experiments and network structure test • Published (co-author) <i>IEEE Transactions on Instrumentation and Measurement</i>	05/2020-04/2021 Chengdu, Sichuan, China
<b>Application of Tri-net in Electrocardiogram (ECG) Diagnosis</b> RA   advised by Prof. Guotai Wang, UESTC • Classified different ECG signals for diagnosis with employing Tri-net combined Tri-training with deep model	01/2021-05/2021 Chengdu, Sichuan, China
<b>A Model for Evaluating Information Fusion</b> RA   advised by Prof. Yong Deng, UESTC • Combined evidence distance and Deng Entropy to evaluate the information fusion methods. • Analyzed the evaluation value output by the measurement of different information sources	12/2020-05/2021 Chengdu, Sichuan, China

## WORKING EXPERIENCE

<b>VeriSilicon Microelectronics, GPU Arch Group</b> Software Development Engineer Intern • Built software model(C Model) of GPU hardware architecture to guide hardware design. Implemented 3 sub-modules, which are included in GPU display module and the IP is authorized to Google Pixel. • Implemented High Dynamic Range (HDR) screen display through an adaptive curve fitting algorithm, which suited hardware features and kept high precision. The precision reached less than 0.1% error rate for 48 different RGB curves and I/O numbers of bits. • Built gamut color mapping through matrix computing. Compared the precision of standard results (float computing) and hardware-suited results (fixed-point computing) for error control. • Designed an internal test tool for anomaly detection of hardware configurations. • Involved in applying Bezier Curve to trace objects. Reported content and synchronized to the U.S. team.	04/2022 - 07/2022 Chengdu, Sichuan, China
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## PUBLICATIONS

L. Qin, Y. Xie, X. Liu, <b>X. Yuan</b> and H. Wang, "An End-to-End 12-Leading Electrocardiogram Diagnosis System Based on Deformable Convolutional Neural Network With Good Antinoise Ability," <i>IEEE Transactions on Instrumentation and Measurement</i>
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## SERVICES

The Web Conference (WWW) 2023, Reviewer	11/2022
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## HONORS

UESTC University-wide Outstanding Student Scholarship	12/2020 & 12/2021
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