




EDUCATION



Institute of Computing Technology, Chinese Academy of Sciences

Adviser: [Yiqiang Chen](#)

SEP 2020 - PRESENT

Ph.D. Candidate in Computer Science

Perceptual Computing, Anomaly Detection, Discriminative-Generated Model

Beijing, China



Shandong University (Project 985)


Recommended Exemption Graduate Student

SEP 2016 - JUN 2020

B.S. in Computational Mathematics

Shandong, China

EXPERIENCE



Pengcheng National Laboratory -Vision Institute

Research Assistant [No. 222030018] (National ZZB Program) Department of Network Intelligence (Led by [Wen Gao](#))

SEP 2022 - PRESENT

Computing Power Network-based Intelligent Sensing

A New Multimodal Foundation Model

Shenzhen, China



Institute of Science and Development, Chinese Academy of Sciences

Member in the expert group of Developing Bioeconomy and Maintaining Biosecurity (Led by [Qi Zhou](#))

APR 2023 - MAY 2023

Special Research on Biological Resources and Biological Information

Beijing, China



Bureau of Biological Industry, Chengdu Hi-Tech Industrial Development Zone

Member in the expert group on Biological Digital Economy Industry

NOV 2022 - AUG 2023

Research Report on the Development of Biological Digital Economy Industry in CDHT

Sichuan, China



China Disabled Persons' Federation -Information Center & Assistive Devices Center

National Key Research and Development Program "Active Health and Aging Response"

AUG 2022 - APR 2024

Key Project "R&D of Cloud Platform for Auxiliary Tools Evaluation and adaptation Service support" 2018YFC2002603

Beijing, China



China National Center for Biotechnology Development

Assistant in 13th Five-Year National Key R&D Plan Key Special Project Comprehensive Performance Evaluation

FEB 2023 - MAR 2024

Report on the Solicitation of Proposals for the Special Project of Diagnosis and Treatment Equipment and Biomedical Materials

Beijing, China



Alibaba Cloud Computing -Cloud Product R&D, Intelligent Products Business Group

Algorithm Engineer [No. 228854]

MAY 2019 - OCT 2019

Develop algorithms for Anomaly Detection and Intelligent Scheduling for Content Delivery Networks.

Hangzhou, China



PRORICH Capital Group -Investment Department

Investment Manager [No. A20201208005508] (Registered Member in Asset Management Association of China)

OCT 2019 - JAN 2024

Involve in Private Equity, Mergers & Acquisitions, Due Diligence, Fundraising.

Jinan, China



Deloitte Touche Tohmatsu Certified Public Accountants LLP -Audit and Assurance Department

Assistant Auditor [No. 140815] (Deloitte China Innovation Elite Top 40 Program)

JAN 2018 - MAR 2018

Involve in audit working paper of the annual audit report of Antonoil (03337.HK).

Beijing, China

PUBLICATIONS

GSM: Global Semantic Memory

Jiahao Li, Yiqiang Chen✉, Yunbing Xing, Yang Gu, Xiangyuan Lan

Pattern Recognition
Under Review 2024

HYMAN: Hybrid Memory and Attention Network for Unsupervised Anomaly Detection

Jiahao Li, Yiqiang Chen✉, Yunbing Xing, Yang Gu, Xiangyuan Lan✉

IEEE ICASSP
Under Review 2024

Contrast Memory for Unsupervised Anomaly Detection

Jiahao Li, Yiqiang Chen✉, Yunbing Xing, Yang Gu, Xiangyuan Lan✉

IEEE ICASSP
Under Review 2024

Towards Semantic Overflow Detction

Jiahao Li, Yiqiang Chen✉, Yunbing Xing, Yang Gu, Xiangyuan Lan✉

ACM SIGKDD
Under Review 2024

Cascade Memory for Unsupervised Anomaly Detection (Oral)

Jiahao Li, Yiqiang Chen✉, Yunbing Xing, Yang Gu, Xiangyuan Lan✉

ECAI
Published 2024

Memory Mechanism for Unsupervised Anomaly Detection

Jiahao Li, Yiqiang Chen✉, Yunbing Xing

UAI
Published 2023

Digital Twin for Fault Detection Based on Hybrid Neural Networks

Zhiwen Pan, Jiahao Li, Yiqiang Chen✉, Yunbing Xing

IJIT
Published 2019

Academic Service

Reviewer in ICASSP 25, DIST 24, TSUSC 22, ACML 24, KDD 24, CIKM 24



PATENTS

A Behavior Recognition Model Construction Method and Behavior Recognition Method, System Yunbing Xing, Jiahao Li , Yiqiang Chen	CN114613009A INVENTION TYPE MAR 2022
An Autoencoder Applied to Image Processing and its Training Method, Detection System Yiqiang Chen, Jiahao Li , Yunbing Xing	CN116485922A INVENTION TYPE APR 2023
Gesture Transfer Method and Device for Sign Language Based on Motion Retargeting Yunbing Xing, Hanqiang Huang, Yiqiang Chen, Jiahao Li	CN116844231A INVENTION TYPE JUL 2023
A Self-Collision Detection Method for 3D Digital Human Motion Synthesis Yunbing Xing, Jiahao Li , Yiqiang Chen	CN118135651A INVENTION TYPE FEB 2024
An Anomaly Sensing Method and Device Based on Memory Mechanism Yunbing Xing, Jiahao Li , Yiqiang Chen, Chenghao Li	CN118430064A INVENTION TYPE MAY 2024
An Open Anomaly Sensing Method Based on Recurrent Memory Yiqiang Chen, Jiahao Li , Yunbing Xing	CN118503704A INVENTION TYPE MAY 2024

AWARDS

- Postgraduate -	
The Honorary Title of Merit Student of University of Chinese Academy of Sciences (No. 42408883)	8.13% 2024.05.13
The Honorary Title of Merit Student of University of Chinese Academy of Sciences (No. 42303426)	8.97% 2023.06.25
The Excellent Works of Scientific Research Innovation of Design Group of 2023 Assistive Devices for the Disabled Innovation Promotion Activity	2023.05.15
The Honorary Title of Excellent League Member of University of Chinese Academy of Sciences	2021.06.17
The 3rd Prize of CCF Big Data and Computational Intelligence Competition (Team Leader)	0.4% 2021.01.23
The Honorary Title of Excellent Camper of the Key Camp for Freshmen of Chinese Academy of Sciences	2020.09.05
Student Scholarship of University of Chinese Academy of Sciences	2019.11.15
# National Level - Undergraduate -	
The Bronze Medal of the 4th China International College Students' "Internet+" Innovation and Entrepreneurship Competition (Team Leader)	2019.02.26
The Bronze Medal of the 11th National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction (Team Leader)	2018.10.21
The Bronze Medal of the 2018 "ChuangQingchun" National College Entrepreneurship Competition (Team Leader)	2018.07.15
The Bronze Medal of the 3rd National Finals of "Voice of Youth · Youth Maker" Series Activities (Team Leader)	2018.06.27
# Provincial Level	
The 2nd Prize of Shandong College Student Physics Competition (Individual)	2019.01.07
The 3rd Prize of the 5th Shandong Science and Technology Innovation Competition, \$10,000 (Team Leader)	2018.11.12
The 2nd Prize of the 9th Shandong University Students Entrepreneurship Plan Competition (Team Leader)	2018.10.29
The 2nd Prize of the 2018 National College Students Mathematical Modeling Competition Shandong Province (Team Leader)	2018.10.11
The Gold Medal of the 4th Shandong "Internet+" Innovation and Entrepreneurship Competition "iSight Glass", \$50,000 (Team Leader)	2018.07.17
The Silver Medal of the 4th Shandong Internet + Innovation and Entrepreneurship Competition "AI-CAD" (Team Leader)	2018.07.17
The Silver Medal of the 4th Shandong Internet + Innovation and Entrepreneurship Competition "Cellular Wireless Charger" (Group)	2018.07.17
The 3rd Prize of the 4th Shandong Students Science and Technology Innovation Competition, \$10,000 (Team Leader)	2017.12.04
The 2nd Prize of the 8th Shandong University Students Entrepreneurship Plan Competition (Team Leader)	2017.10.22
The 1st Prize of the 30th National Youth Science and Technology Innovation Competition Shaanxi Province, \$3,000 (Individual)	2015.05.23
# Municipal & Enterprise Level	
The Top 400 Project of 6th University Student Entrepreneurship Competition China Hangzhou (Team Leader)	2019.05.16
The 2nd Prize of the 4th Beiyang Star Electronic Information and Intelligent Manufacturing Entrepreneurship Competition, \$30,000 (Team Leader)	2018.09.27
The 2nd Prize of the 7th "WEGO Cup" Enterprise Future Elite Competition, \$500 (Individual)	2017.11.27
The Excellent Performance of Deloitte Global Chinese Top 40 Elite Challenge, \$2,000 (Team Leader)	2017.09.02
The 3rd Prize of the Zhongguancun Innovation and Entrepreneurship Competition, \$500 (Team Leader)	2017.05.14
# University Level	
The 1st Prize of the 13th Undergraduate Research Training Program Scientific Research Project of Shandong University (Individual)	2019.05.20
The Honorary Title of 2018 Advanced Individual of Shandong University (Individual)	2019.05.04
The 3rd Prize of the 7th Shandong University "Patent Product Design Competition" (Individual)	2018.11.20
The Honorary Title of Outstanding Student of Shandong University School of Mathematics (Individual)	2018.10.12
The 2nd Scholarship for Outstanding Students of Shandong University School of Mathematics (Individual)	2018.09.26
The 2nd Prize of the 12th Undergraduate Research Training Program Scientific Research Project of Shandong University (Individual)	2018.05.18
The Honorary Title of the 9th Outstanding Undergraduate Research Assistant (Individual)	2018.07.12
The Honorary Title of the Role Model of the 2017 , School of Mathematics	2017.12.05
The Honorary Title of the Star of Self-Reliance of the School of Mathematics, Shandong University (Individual)	2017.10.27
The Honorary Title of the Outstanding Student of Shandong University College of Mathematic	2017.10.15
The 2nd Scholarship for Outstanding Student of School of Mathematics (Individual)	2017.09.25