




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, Department of Network Intelligence

SEP 2022 - PRESENT


Research Assistant [No. 222030018] (National ZZB Program)  
Computing Power Network-based Intelligent Sensing - A New Multimodal Foundation Model



Institute of Science and Development, Chinese Academy of Sciences

APR 2023 - MAY 2023


Member in the expert group of Developing Bioeconomy and Maintaining Biosecurity (Led by [Qi Zhou](#))  
Special Research on Biological Resources and Biological Information Beijing, China



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

NOV 2022 - AUG 2023

Member in the expert group on Biological Digital Economy Industry  
Research Report on the Development of Biological Digital Economy Industry in CDHT Sichuan, China




China Disabled Persons' Federation

-Information Center & Assistive Devices Center

AUG 2022 - APR 2024


National Key Research and Development Program "Active Health and Aging Response"  
Key Project "R&D of Cloud Platform for Auxiliary Tools Evaluation and adaptation Service support" 2018YFC2002603 Beijing, China



China National Center for Biotechnology Development

FEB 2023 - MAR 2024

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

MAY 2019 - OCT 2019

Algorithm Engineer [No. 228854]  
Develop algorithms for Anomaly Detection and Intelligent Scheduling for Content Delivery Networks. Hangzhou, China




PRORICH Capital Group

-Investment Department

OCT 2019 - JAN 2024

Investment Manager [No. A20201208005508] (Registered Member in Asset Management Association of China)  
Involve in Private Equity, Mergers & Acquisitions, Due Diligence, Fundraising. Jinan, China



Deloitte Touche Tohmatsu Certified Public Accountants LLP

-Audit and Assurance Department

JAN 2019 - MAR 2018

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

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

AWARDS

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