

## Yuer Yang

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TOEFL: **105** (R29 + L28 + S20 + W28) | GRE: **329 + 4** (V159 + Q170 + AW4.0)

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## Education

- **BS (Major): College of Cyber Security, Jinan University** *Sep. 2019 - Jun. 2023*  
(Major GPA: **4.09/5.00**, Ranking: **2/62**, top 3% in Class)
  - ✧ Major: Cyber Security
  - ✧ Thesis: A Malware Detection Approach Based on ResNet and Word2vec (**93**; **Top 1** in Class; **Excellent Thesis@JNU**)
  - ✧ Supervisor: Associate Prof. Peiya Li
- **BS (Minor): School of Economics, Jinan University** *Sep. 2020 - Jun. 2022*
  - ✧ Minor: Finance
  - ✧ Thesis: Research on Measuring Housing Investor Sentiment: Based on News Images
  - ✧ Supervisor: Associate Prof. Yingnan Chen
- **Ph.D. (Full-time with Postgraduate Scholarship): Department of Computer Science, The University of Hong Kong** *Sep. 2023 - Present*
  - ✧ Major Research Interest: Malware Detection
  - ✧ Group: Cyber Security, FinTech and Blockchain
  - ✧ Primary Supervisor: Prof. Siu-Ming Yiu (Deputy Head of Department of Computer Science, The University of Hong Kong; Executive Director of HKU-SCF FinTech Academy, The University of Hong Kong)
  - ✧ Co-supervisor: Prof. Tak-Wah Lam (Associate Dean of Faculty of Engineering, The University of Hong Kong)

## Major Research Interest

- **Malware Detection**
  - ✧ Propose a new malware detection framework *GooseBt* built with over 1,000,000 lines to run kernel-level dynamic rules and static rules
  - ✧ Propose a multi-modal malware detection approach based on ResNet50 and word2vec
  - ✧ Present a literature review of the development and future of malware detection (in academics) and anti-virus software (in industry)
  - ✧ Use PC Hunter Standard, YDARK, and Twrp-KernelSU-LSPosed-Plugins framework to perform malware analysis including real-time monitoring and remote thread injection on Windows and Android

## Selected Publication

- **Yang Y**, Lin Y, Li Z, et al. GooseBt: A programmable malware detection framework based on process, file, registry, and COM monitoring[J]. Computer Communications, 2023, 204: 24-32.
- **Yang Y**, Lin Y, Chen Z, et al. SNPERS: A Physical Exercise Recommendation System Integrating Statistical Principles and Natural Language Processing[J]. Electronics, 2022, 12(1): 61.
- Wang X<sup>1</sup>, Lin Y<sup>1</sup>, **Yang Y**<sup>1</sup>, et al. A secure physical health test data sharing scheme based on token distribution and programmable blockchains[J]. Computer Communications, 2023, 209: 444-454.
- **Yang Y**, Wang Y, Liu X, et al. The Application of Information Science in Physiology and Medicine and Its Significance[J]. Progress in Physiological Sciences, 2023, 54(03): 199-206. DOI: [10.20059/j.cnki.pps.2022.11.1093](https://doi.org/10.20059/j.cnki.pps.2022.11.1093).

- Ding W, Luo Y, Lin Y\*, **Yang Y\***, Lian S. VeriBypasser: An automatic image verification code recognition system based on CNN[J]. Computer Communications. (Accepted)
- Lin Y, **Yang Y**, Zhang Y. Improved differential evolution with dynamic mutation parameters[J]. Soft Computing, 2023: 1-19.
- Lei Y, Wu Z, Li Z, **Yang Y**, Liang Z. BP-CapsNet: An image-based Deep Learning method for medical diagnosis[J]. Applied Soft Computing, 2023: 110683. **(Top)**
- Chen Y, Wu A, **Yang Y**, et al. Efficient Verifiable Cloud-Assisted PSI Cardinality for Privacy-Preserving Contact Tracing[J]. IEEE Transaction on Cloud Computing. (Accepted)
- Wang Y, **Yang Y**, Liu M. Electrophoretic deposition of halloysite nanotubes/PVA composite coatings for corrosion protection of metals[J]. Applied Materials Today, 2022, 29: 101657.

## Review Experiences

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- 74 review experiences in 32 journals (96 rounds)
  - Engineering Applications of Artificial Intelligence (EAAI, **Top**) \* 4
  - Soft Computing (SOCO) \* 13
  - Computer Communications (COMCOM) \* 2 (Proxy Review)
  - Public Health
  - International Journal of Electrical and Computer Engineering (IJECE) \* 10
  - Journal of Cardiovascular Medicine and Cardiology (JCMC)
  - Journal of Sports Medicine and Therapy (JSMT) \* 2
  - Annals of Mathematics and Physics (AMP)
  - Journal of Novel Physiotherapy and Rehabilitation (JNPR) \* 3
  - Journal of Autonomous Intelligence (JAI)
  - IgMin Research: Advancing knowledge and innovation in STEM \* 4
  - International Journal of Environment and Climate Change (IJECC)
  - Journal of Cardiology and Cardiovascular Medicine (JCCM) \* 3
  - Asian Journal of Environment & Ecology (AJEE)
  - Annals of Robotics and Automation (ARA) \* 2
  - AIMS Electronics and Electrical Engineering
  - BP International (BPI)
  - UTTAR PRADESH JOURNAL OF ZOOLOGY (UPJOZ)
  - Mathematics
  - Computer Systems Science and Engineering (CSSE)
  - Information Technology
  - Journal of Biomedical Research & Environmental Sciences \* 7
  - Electrical Engineering
  - Journal of Plant Science and Phytopathology
  - Gynecology & Obstetrics \* 2
  - Annals of Civil and Environmental Engineering
  - International Journal of Physics Research and Applications \* 2
  - Journal of Radiology and Oncology
  - BioMed Pulse - Multidisciplinary Journal
  - International Journal of Engineering and Technology Innovation (IJETI)
  - Annals of Clinical Gastroenterology and Hepatology
  - Insights on the Depression and Anxiety
- 14 review experiences in 9 international conferences (16 rounds)
  - The 5th International Conference on Mechanical, Electric and Industrial Engineering (MEIE 2022)
  - International Conference on Networks, Communication and Information Technology (NCIT 2022)
  - The 6th International Conference on Mechanical, Electric and Industrial Engineering (MEIE 2023) \* 2
  - The 6th International Workshop on Environment and Geoscience (IWEG 2023)
  - The 6th International Conference on Physics, Mathematics and Statistics (ICPMS 2023)
  - The 7th International Conference on Computer Science and Application Engineering (CSAE 2023) \* 2
  - The 25th International Conference on Information and Communications Security (ICICS

2023) (Proxy Review)

- International Conference on Frontiers of Electronic, Electrical and Computer Science (ICFEECS 2024) \* 2

- 2024 IEEE the 7th International Conference on Electronics and Communication Engineering (ICECE2024) \* 3

### **Academic Services**

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- A chair at Workshop 5 of International Conference on Frontiers of Electronic, Electrical and Computer Science (ICFEECS 2024)
- A chair at Workshop 4 of International Symposium on AI and Cybersecurity (ISAICS 2024)
- A chair at Workshop 19 of The 5th International Conference On Computer , Big Data and Artificial Intelligence (ICCBD+AI 2024)
- A technical committee member of 2024 IEEE the 7th International Conference on Electronics and Communication Engineering (ICECE2024)

### **Intellectual Properties**

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- Software for predicting postoperative indicators based on machine learning (2021SR1313007, first author)
- A big data computer network security protection device (Authorized utility model patent: ZL 2021 2 1936474.9, first author)
- Universal Word Calculator (UWC) text processing tools (2022SR0999915, first author)
- wmp: An integrated process manager (2022SR1006107, first author)
- Win DOS: A kind of general maintenance software for Windows (2022SR1079851, first author)
- Linux DOS: A kind of maintenance software for Linux (2022SR1079597, second author)
- Sports dance protective mat (Authorized design patent: ZL 2023 3 0182497.3, fourth author)
- A Hard Disk Installation Extender for Computers (Authorized utility model patent: ZL 2023 2 0724372.3, second author)
- U disk (Authorized design patent: ZL 2023 3 0182496.9, second author)
- Image target detection method, system, and equipment under severe weather conditions (Authorized invention patent: ZL 2023 1 0579491.9, tenth author)
- A sports dance training device (Authorized utility model patent: ZL 2023 2 1090699.6, fourth author)

### **Project Experiences**

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- **National Innovation and Entrepreneurship Training Program for Undergraduate**
  - Research on stock prediction model integrating investor sentiment calculation (202010559054)
- **Guangdong Innovation Fund Project**
  - A malware detection model combining active defense technique and binary image distribution (pdjh2022b0060)
- **Research projects on scientific and technological innovation and sports culture development of Guangdong Province Sports Bureau (2022-2023)**
  - A physical exercise recommendation system integrating statistical principles and natural language processing (GDSS2022N068)
- **Academy of Macaology**
  - A physical exercise recommendation system integrating statistical principles and natural language processing (12622971)
- **Challenge Cup Project**
  - Pathological tissue slice recognition system for biomedical images based on segmentation network and U-Net (20113053)
  - A malware detection framework combining active defense technique and binary image distribution (22113016)
- **University Innovation and Entrepreneurship Training Program for Undergraduate**
  - Breast cancer pathological slice image recognition system based on ResNet-34 (CX20011)
  - A malware detection framework combining active defense technique and binary image distribution (CX21084)

## Selected Awards

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- The **National Gold Medal Prize** in *The 7th China International College Student "Internet+" Innovation and Entrepreneurship Competition* (The **first** for Jinan University; The **top** one among all the domestic higher education institution student entrepreneurship competition events in China) (National Level)
- The **National Gold Medal Prize** in The 2012 National Outstanding Artistic Talented Student Competition (National Level)
- The Second Prize of The 2020 Asia Pacific College Students Mathematical Modeling Competition (APMCM) (International Level)
- The Third Prize in The 2020 Chang'an Cup Electronic Data Forensics Competition (Provincial Level)
- The Third Prize in 2020 The Meiya Cup Digital Forensics Competition (National Level)
- The Third Prize in 2020 The "Greater Bay Area Cup" Financial Mathematical Modeling Competition (Provincial Level)
- The Third Prize in 2021 The College Mathematical Modeling Challenge (MathorCup) (National Level)
- The National Third Prize in 2021 The WeChat Applet Developer Competition (National Level)
- The Provincial Second Prize in 2021 The National Undergraduate Mathematical Modeling Competition (Guangdong Region) (Provincial Level)
- The Second Prize in 2021 The Chang'an Cup Electronic Data Forensics Competition (Provincial Level)
- The Second Prize in 2022 The National College Student Data Analysis Popular Science Knowledge Competition (National Level)
- The Third Prize in 2022 The Chang'an Cup Electronic Data Forensics Competition (Provincial Level)

## Selected Honors

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- **2021-2022 The National Scholarship (Only 1 in the grade)** (National Level)
- **2012 The National Outstanding Art Talented Student** (National Level)
- The Excellent Student of The First Training Course for The Guangdong Digital Government Construction Talent Training Program (Academy of Political Culinary) of Guangdong Provincial Bureau of Public Services and Data Management (Provincial Level)
- 2016 The Merit Student of Qingyuan Municipality (Municipal Level)
- 2018 The Excellent Student Cadre of Zhongshan Municipality (Municipal Level)
- **The Excellent Graduate of Jinan University** (University Level)
- **The Excellent Undergraduate Thesis of Jinan University** (University Level)
- **2022 The Star of Jinan of The 11th 5A Elite Student Program of Jinan University (Top 2 in the university and the first recipient in the college)**
- **The Extraordinary Undergraduate of Jinan University (Top 5 in the university)**
- 2021-2022 The Arowana Scholarship of Jinan University (**Top 1** in the college) (University Level)
- The Certificate in Teaching and Learning in Higher Education of The University of Hong Kong (University Level)
- The Excellent Student of Jinan University \* 2 (University Level)
- The First Prize Scholarship of Jinan University \* 2 (University Level)

## Internship Experiences

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### **Micropoint Wisdom (Beijing) Information Security Technology Co., Ltd (2018.6 - Present)**

- Internal test of *Micropoint Proactive Defense Software*
- Discover and fix leaks affecting self-protection
- Help develop kernel driver and work out the best tip rules

### **Maintain of WeChat Applet *JiQuan* in Jinan University (2021.3 - 2023.1)**

- Discover and fix "vsftpd" leaks
- Program automatic shell scripts to optimize the server based on data mining

### **Product Experience Officer at Applet *We2000* in WeBank (2021.12 - 2022.3)**

- Perform customer profile analysis

### **Managed Security Service (MSS) in Qi An Xin Technology Group Inc. (2022.7 - 2022.8)**

- Discuss malware and other security issues in industry
- Perform subscription analysis for customers

### **Student Works**

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- 17 student work positions during undergraduate (selected positions as follows)
  - The Deputy Secretary of the Communist Youth League at College of Cyber Security, Jinan University (2021-2022)
  - The leader of the Technical Department of Youth Volunteer Association at College of Cyber Security, Jinan University (2020-2021)
  - The Academic Department of the Youth League Branch at Department of Cyber Security, College of Cyber Security, Jinan University (2020-2021)
  - A teaching assistant of Cyberspace Security Online Summer Training Camp (2019-2020-2), Mathematical Fundamentals of Information Security (2021-2022-2), Python Program Design (8 semesters among 2019-2020 and 2021-2024), Freshman Training Camp (2020-2021)
  - The deputy monitor at the 2019 Natural Class of Cyber Security (2019-2020)
- 1 student work position during Ph.D.
  - A teaching assistant for FinTech (CCST9080) (2023-2024-2)
- Volunteer service: More than 200 hours of volunteering

### **Skills**

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- Positive, hard-working, willing to contribute to teams, and interested in cross-field research
- Capable of Python, C, C++, KMDF, Java, cmd, shell, etc. programming and have over-1-million-line codes written on GitHub
- Have been testing anti-virus software from 1G to 4G in the real environment since 2010

### **Cross-field Research Interests**

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- **Algorithm Optimization**
  - ✧ Combined CEEMDAN, SE, and GWO-based LSTM to CEEMDAN-SE-GWO-LSTM
  - ✧ Improved DE algorithms with different convergent function schemes
  - ✧ Used DE to solve uncapacitated facility location problems (UFLPs)
  - ✧ Provided surveys of image hiding and image encryption algorithms
  - ✧ Proposed TFUI to mine top- $k$  highest utility and frequency data
  - ✧ Designed Top  $k$  querying with pruning based on grids, R-trees, and sequential accesses
- **Applied Artificial Intelligence**
  - ✧ Trained DeepLabCut (DLC) models to trace mice and analyze the correlation between mice and brain waves
  - ✧ Built a drift-considered physical education recommendation system based on traditional statistical methods and natural language processing (NLP)
  - ✧ Added a fully connected layer to optimize ResNet34 on pathological sections and migrated the general eight-class classification model to various fields
  - ✧ Generated a new dataset and proposed nucleusmax for summarizing radiology reports
  - ✧ Predicted financial market and stock value based on text analysis from comments
  - ✧ Analyzed the correlation between text, images, etc. in news reports and combined textual sentiment, images' sentiment, etc. to figure out news reports' sentiment to reflect the investors' sentiment to predict assets' prices like second-hand house prices
  - ✧ Built a tool to implement textual sentiment calculation based on Python
  - ✧ Trained common machine learning models constrained by statistical principles
- **Cryptography**
  - ✧ Implemented some secure multi-party computation schemes
  - ✧ Constructed a bi-linear pairing cipher scheme based on the elliptic curve
- **Halloysite**
  - ✧ Designed anti-corrosion verification experiments for surface modification
  - ✧ Performed halloysite properties exploration experiments and recorded experimental data

### **Full Publication (In Time Order)**

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- [1] Zhong Z, Yuan X, Liu S, **Yang Y**, F Liu. Machine learning prediction models for prognosis of critically ill patients after open-heart surgery[J]. Scientific Reports, 2021, 11(1): 1-10.
- [2] Dai Y, Wang H, **Yang Y**. Spatiotemporal distribution analysis of Vespa Mandarinina based on GM model[C]//Journal of Physics: Conference Series. IOP Publishing, 2021, 1952(4): 042126.
- [3] **Yang Y**, Liu Y, Chen S, et al. Machine learning distribution model and auxiliary diagnosis system based on pathological sections from multiple parts of human beings[C]//2021 International Conference on Security, Pattern Analysis, and Cybernetics (SPAC). IEEE, 2021: 439-444.
- [4] **Yang Y**, Lin Y, Chen S, et al. Reported sighting detection of Asian Vespa mandarinina based on ResNet50[J]. Basic & Clinical Pharmacology & Toxicology. (Journal Abstract)
- [5] **Yang Y**, Chen Z, Chen S, et al. Avpd: An Anti-virus Model with Remote Thread Injection for Android Based on ResNet50[C]//Journal of Physics: Conference Series. IOP Publishing, 2022, 2203(1): 012078.
- [6] **Yang Y**, Chen S, Chen Z, et al. ISSPM: A stock prediction model incorporating investor sentiment calculations based on fusedmax[C]//2021 8th International Conference on Information, Cybernetics, and Computational Social Systems (ICCSS). IEEE, 2021: 331-337.
- [7] **Yang Y**, Lei Y, Chen Z, et al. Explore the relationship between textual sentiments and pictures' emotions based on unit quantification[C]//International Conference on Computer, Artificial Intelligence, and Control Engineering (CAICE 2022). SPIE, 2022, 12288: 39-45.
- [8] He Z, **Yang Y**, Zhao S. Towards Pre-trained Language Model for Dynamic Disturbance[C]//2021 3rd International Academic Exchange Conference on Science and Technology Innovation (IAECST). IEEE, 2021: 480-484.
- [9] **Yang Y\***, Du R, Tang H, et al. SSLPNet: A financial econometric prediction model for small-sample long panel data[C]//2021 The 9th International Conference on Information Technology: IoT and Smart City. 2021: 174-180.
- [10] Xia Y, Chen Y, Luo H, **Yang Y**, Wang X. Research and Improvement on the Development of Robo-Advisor: Present and Prospect[C]//2022 4th International Conference on Image, Video and Signal Processing. 2022: 172-178.
- [11] **Yang Y**. Development and future of information hiding in image transformation domain: A literature review[C]//Proceedings of the 4th International Conference on Image Processing and Machine Vision. 2022: 72-77.
- [12] Lei Y, Cui Z, **Yang Y**, et al. STDAPM: Spatial and Temporal Distribution Analysis and Prediction Model of Bee Species based on Grey Model[C]//Proceedings of the 8th International Conference on Computing and Artificial Intelligence. 2022: 152-157.
- [13] Lei Y, Cui Z, Dai L, et al. The Development of Traffic Flow Prediction Based on Deep Learning: A Literature Review[C]//2022 7th International Conference on Computer and Communication Systems (ICCCS). IEEE, 2022: 140-145. (Acknowledgement)
- [14] **Yang Y**, Zhu S, Zhao L, et al. Analysis of Innovative Product Experience Based on Logistic Regression with Data Augmentation[C]//2022 7th International Conference on Computer and Communication Systems (ICCCS). IEEE, 2022: 915-920.
- [15] Xiao N, Li Z, Chen S, Zhao L, **Yang Y**, Xie H, Liu Y, Quan Y, Duan J. Contrast-enhanced CT Image Synthesis of Thyroid Based on Transfomer and Texture Branching[C]//2022 5th International Conference on Artificial Intelligence and Big Data (ICAIBD). IEEE, 2022: 94-100.
- [16] Hu Y, Zhong J, Pan H, **Yang Y**. Research on the Selection of Raw Material Suppliers for Enterprises[C]//2022 13th International Conference on E-business, Management and Economics. 2022: 261-266.
- [17] Zhao W, **Yang Y**, Lu Z. Interval Short-Term Traffic Flow Prediction Method Based on CEEMDAN-SE Noise Reduction and LSTM Optimized by GWO[J]. Wireless Communications and Mobile Computing, 2022, 2022.
- [18] Hu Y<sup>1</sup>, Zhong J<sup>1</sup>, Pan Y<sup>1</sup>, **Yang Y**<sup>1</sup>. Goal Planning of Enterprise Raw Material Ordering and Transshipment Based on Genetic Algorithm and Machine Learning[C]//2022 6th International Conference on Cloud and Big Data Computing.
- [19] Tan H, Deng C, Chen S, et al. Feature selection methods for high-dimensional biomedical time-to-event data: a review[C]//Proceedings of the 5th International Conference on Big Data Technologies. 2022: 113-119. (Acknowledgement)
- [20] Li Z, Chen H, Chen W, Lin S, Zhao R, Qian Y, Wang Z, **Yang Y**, Huang F. Real-time clothing

- detection networks for surveillance videos[C]//Fourteenth International Conference on Graphics and Image Processing (ICGIP 2022). SPIE, 2023, 12705: 919-929.
- [21] **Yang Y**, Wang Y, Liu X, et al. The Application of Information Science in Physiology and Medicine and Its Significance[J]. Progress in Physiological Sciences, 2023, 54(03): 199-206. DOI: [10.20059/j.cnki.pps.2022.11.1093](https://doi.org/10.20059/j.cnki.pps.2022.11.1093).
  - [22] Wang Y, **Yang Y**, Liu M. Electrophoretic deposition of halloysite nanotubes/PVA composite coatings for corrosion protection of metals[J]. Applied Materials Today, 2022, 29: 101657.
  - [23] Chen H, **Yang Y**, Wu Y. Invalid Message Risks and Analysis of Laws to Restrict Cyber Crime in Social Applications[C]//Proceedings of the 2022 11th International Conference on Networks, Communication and Computing. 2022: 341-347.
  - [24] **Yang Y**, Lin Y, Chen Z, et al. SNPERS: A Physical Exercise Recommendation System Integrating Statistical Principles and Natural Language Processing[J]. Electronics, 2022, 12(1): 61.
  - [25] Chen S, Xiao N, Shi X, **Yang Y**, et al. ColorMedGAN: A Semantic Colorization Framework for Medical Images[J]. Applied Sciences, 2023, 13(5): 3168.
  - [26] **Yang Y**, Lin Y, Li Z, et al. GooseBt: A programmable malware detection framework based on process, file, registry, and COM monitoring[J]. Computer Communications, 2023, 204: 24-32.
  - [27] Zhao S, Li Q, **Yang Y**, et al. From Softmax to Nucleusmax: A Novel Sparse Language Model for Chinese Radiology Report Summarization[J]. ACM Transactions on Asian and Low-Resource Language Information Processing, 2023, 22(6): 1-21.
  - [28] Wang X<sup>1</sup>, Lin Y<sup>1</sup>, **Yang Y**<sup>1</sup>, et al. A secure physical health test data sharing scheme based on token distribution and programmable blockchains[J]. Computer Communications, 2023, 209: 444-454.
  - [29] Lei Y, Wu Z, Li Z, **Yang Y**, Liang Z. BP-CapsNet: An image-based Deep Learning method for medical diagnosis[J]. Applied Soft Computing, 2023: 110683. (Top)
  - [30] Lin Y, **Yang Y**, Zhang Y. Improved differential evolution with dynamic mutation parameters[J]. Soft Computing, 2023: 1-19.
  - [31] Xiao Z, Lin Y, **Yang Y**<sup>\*</sup>, et al. Keep or reject? Candidates' multi-step decisions on offered admissions and analysis of default phenomena[C]//The 3rd International Conference on Robotics, Automation and Intelligent Control (ICRAIC 2023). (Accepted)
  - [32] Ji T, Lin Y, **Yang Y**, et al. Which performs better, linear scanning or the KNN searching algorithm based on 2D grids?[C]//2023 3rd International Conference on Robotics, Automation and Intelligent Control (ICRAIC). IEEE, 2023: 30-35.
  - [33] Chen Z, Zheng H, Duan J, et al. GLCM-Based FBLS: A Novel Broad Learning System for Knee Osteopenia and Osteoporosis Screening in Athletes[J]. Applied Sciences, 2023, 13(20): 11150. (Acknowledgement)
  - [34] Lin W, Lin Y<sup>\*</sup>, **Yang Y**<sup>\*</sup>. An Approach for Searching the Top K Nearest Areas Based on R-tree[C]//2023 International Conference on Networks, Communications and Intelligent Computing (NCIC). IEEE, 2023: 267-272.
  - [35] Wu Y, Lin Y, **Yang Y**<sup>\*</sup>, et al. Top K Nearest Book Searching Approach in Metaverse Libraries Based on R-Tree[C]//2023 International Conference on Networks, Communications and Intelligent Computing (NCIC). IEEE, 2023: 183-188.
  - [36] Wu Y, Lin Y<sup>\*</sup>, **Yang Y**<sup>\*</sup>, et al. Mining top k best libraries in metaverse with random access and sequential access[C]//2023 4th International Conference on Computer, Big Data and Artificial Intelligence (ICCBD+ AI). IEEE, 2023: 466-472.
  - [37] Ding W, Luo Y, Lin Y, **Yang Y**<sup>\*</sup>, Lian S. VeriBypasser: An automatic image verification code recognition system based on CNN[J]. Computer Communications, 2024, 217: 246-258.
  - [38] Chen Y, Wu A, **Yang Y**, et al. Efficient Verifiable Cloud-Assisted PSI Cardinality for Privacy-Preserving Contact Tracing[J]. IEEE Transactions on Cloud Computing, 2024.
  - [39] Ao L, Cai J, Lin Y, **Yang Y**<sup>\*</sup>. Heart Failure Prediction Based on Broad Learning System[C]//The 1st International Conference on Frontiers of Electronic, Electrical and Computer Science (ICFEECS 2024). (Accepted)
  - [40] Li M, Lin Y, **Yang Y**<sup>\*</sup>. A Fetal Health Classification Approach Based on Broad Learning System[C]//The 1st International Conference on Frontiers of Electronic, Electrical and Computer Science (ICFEECS 2024). (Accepted)
  - [41] Ji T, Luo Y, Lin Y<sup>\*</sup>, **Yang Y**<sup>\*</sup>, Zheng Q, Lian S, Li J. ImageVeriBypasser: An image

- verification code recognition approach based on Convolutional Neural Network[J]. Expert Systems, 2024: e13658.
- [42] Lin W, Lin Y\*, **Yang Y\***. Reinforcement learning in medical materials science: A review[C]//2024 the 7th International Conference on Pattern Recognition and Artificial Intelligence (PRAI 2024). (Accepted)
  - [43] Xu S, Cao Y, Chen X, Guo Y, **Yang Y**, Guo F, Yiu SM. Post-Quantum Searchable Encryption Supporting User-Authorization for Outsourced Data Management[C]//The 33rd ACM International Conference on Information and Knowledge Management (CIKM 2024). (Accepted)
  - [44] Wang X, Xu W, **Yang Y**, et al. Investigation of the effects of dancesport on the mental health of college students based on regressions[C]//2024 6th International Workshop on Artificial Intelligence and Education (WAIE 2024). (Accepted)
  - [45] Zhang L, Yu R, Lin Y\*, **Yang Y\***. A more precise credit score computation method based on big data and machine learning[C]//The 7th International Conference on Machine Learning and Machine Intelligence (MLMI 2024). (Accepted)

### **Full Honors (In Time Order)**

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- [1] **2012 The National Outstanding Art Talented Student** (National Level)
- [2] 2016 The Merit Student of Qingyuan Municipality (Municipal Level)
- [3] 2016-2017 The Excellent Student Cadre of Sun Yat-sen Memorial Middle School (School Level)
- [4] 2018 The Excellent Student Cadre of Zhongshan Municipality (Municipal Level)
- [5] 2017-2018 The Excellent Student Cadre of Sun Yat-sen Memorial Middle School (School Level)
- [6] 2020 The Excellent Student Cadre of The Freshman Training Camp of Jinan University (University Level)
- [7] 2019-2020 The First Prize Scholarship of Jinan University (University Level)
- [8] 2020 The Excellent Senior of The Freshman Training Camp of Jinan University (University Level)
- [9] 2020-2021 The First Prize Scholarship of Jinan University (University Level)
- [10] 2020-2021 The Excellent Student of Jinan University (University Level)
- [11] 2021 The Star of Entrepreneurship of The 10th 5A Elite Student Program of Jinan University
- [12] 2022 The Excellent Team of The Winter Seminar of Jinan University (University Level)
- [13] The Excellence-class in Mid-term Assessment of The Extraordinary Undergraduate enrolled in 2019 of Jinan University (University Level)
- [14] 2021-2022 The Excellent Communist Youth League Member of Jinan University (University Level)
- [15] The Excellent Student of The First Training Course for The Guangdong Digital Government Construction Talent Training Program (Academy of Political Culinary) of Guangdong Provincial Bureau of Public Services and Data Management (Provincial Level)
- [16] The Excellent Student of 2021 The First "Loyalty, Sincerity, Devotion, and Respect" Class of College of Information Science and Technology and College of Cyber Security of Jinan University (College Level)
- [17] The Honorary Certificate of "Ten Years of Sharpening the Sword" of Xuexi Qiangguo (National Level)
- [18] **2021-2022 The National Scholarship** (National Level)
- [19] 2021-2022 The Arowana Scholarship of Jinan University (University Level)
- [20] 2021-2022 The Excellent Student of Jinan University (University Level)
- [21] **2022 The Star of Jinan of The 11th 5A Elite Student Program of Jinan University** (University Level)
- [22] 2022-2023 The Second Prize Scholarship of The Graduating Class of Jinan University (University Level)
- [23] **The Extraordinary Undergraduate of Jinan University** (The Excellence-class in Final Assessment of The Extraordinary Undergraduate enrolled in 2019 of Jinan University) (University Level)
- [24] **The Excellent Graduate of Jinan University** (University Level)
- [25] **The Excellent Undergraduate Thesis of Jinan University** (University Level)



- [26] 2021 The Outstanding Volunteer of Jinan University (University Level)
- [27] 2022-2023 The Excellent Student of New Oriental Education & Technology Group (University Level)
- [28] The Certificate in Teaching and Learning in Higher Education of The University of Hong Kong (University Level)

### **Hobbies**

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- Enjoy playing the piano
- Enjoy studying the cloud-inspired music