

司宇(Yu Si) Kenny

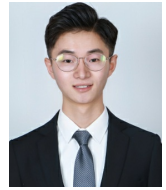
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📍 Zhenjiang, Jiangsu

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📅 1998-03 ♂ Male 🏠 Xuzhou, Jiangsu



EDUCATION

Jiangsu University

Computer Science and Technology Master School of computer science and communication engineering

Sep 2020 - Jul 2023

Zhenjiang

• Job experience:

September 2020-September 2021 Chairman of the Graduate School of Computer Science, Jiangsu University

September 2021-September 2022 Part-time Counselor for Postgraduates in School of Computer Science, Jiangsu University

March 2021-December 2021 Assistant Professor and Assistant Professor, Institute of Cyberspace Security, Jiangsu University

• Scientific research papers

[1] Keyang Cheng, **Yu Si**, Hao Zhou, and Rabia Tahir. 2022.MMDV: Interpreting DNNs via Building Evaluation Metrics, Manual Manipulation and Decision Visualization. In Proceedings of the 30th ACM International Conference on Multimedia (MM '22), October 10-14, 2022, Lisboa, Portugal. ACM, New York, NY, USA, 9 pages.

<https://doi.org/10.1145/3503161.3548260>. (joint work, CCF-A international top-level conferences)

[2] **Yu Si**, Keyang Cheng, Zhou Jiang, Hao Zhou and Rabia Tahir. 2022. DRIB: Interpreting DNN with Dynamic Reasoning and Information Bottleneck. In Proceedings of the ICPCSEE 2022, Part I, CCIS 1628, July 18, 2022. DOI:10.1007/978-981-19-5194-7_14. (EI conference search)

[3] **Yu Si**, Keyang Cheng, Ning Wang. NVIV: Interpreting DNNs using Decision Trees and Visual Attribution[J]. 2022. Information Sciences. (The paper is being revised in the first instance, SCI District 1)

[4] SHUXIN ZHENG, **YU SI**, ZHONGGUO ZHANG. SSA-KELM Edge Computing: A Forecast Model of Short-term Tourist flows[J]. 2022. Mobile Information Systems. (SCI in First Instance)

[5] SHUXIN ZHENG, **YU SI**, ZHONGGUO ZHANG. Tourism Forecasting via Incremental Learning with LSTM Radial Basis Function Neural Network: A Case Study of Xian, China. IEEE Access.

[6] Hao Zhou,Keyang Cheng, **Yu Si**. Improving Interpretability by Information Bottleneck Saliency Guided Localization.BMVC2022.(CCF Class C Conference)

• Invention patent

[1] Cheng Keyang, Wang Ning, **Si Yu**. An interpretable local transfer mutual learning method based on attention map [P]. CN112926696A.

[2] Cheng Keyang, Meng Chunchun, **Si Yu**. Semantic picture decoupling and generation optimization method [P]. CN114419396A9.

[3] Cheng Keyang, He Xiaobing, Wang Wenshan, Shi Wenxi, **Si Yu**. Multi-person Gait Recognition Method Based on Spatiotemporal Mixed Features [P]. CN112861605A8.

cheng Keyang, Cui Honggang, **Si Yu**. Online Target Detection Model Training Method Based on Intermediate Position Coding [P]. CN114419395A.

[5] Cheng Keyang, **Si Yu**. Interpretable Deep Network Construction Method Based on Dynamic Reasoning Decision and Information Bottleneck [P]. Application No. 2022105666136.

[6] Cheng Keyang, Zhang Haifeng, **Si Yu**. A Method for Tracing Monitoring Data Association Based on Composite Block Chain [P]. Application No. 2022105666969.

Cheng Keyang, Liang Sai, **Si Yu**. Pedestrian Re-identification Method Based on Posture and Style Normalization [P]. Application No. 2022107515889.

• Honorary awards:

2020-2021 academic year "Jiangsu University Outstanding Communist Youth League Member", Jiangsu University First-Class Scholarship

2020-2021 academic year "Jiangsu University Outstanding Graduate Social Worker", Jiangsu University School of Computer Science Outstanding Graduate Cadre

"Excellent Volunteers" in Jiangdu District of Yangzhou and Gaogang District of Taizhou in 2020

August 2021 Volunteers for Epidemic Prevention and Control of Shunhe Town Committee of Zhonggongfeng County and Shunhe Town People's Government of Fengxian County

Taizhou College

Internet of Things Engineering Bachelor School of Computer Science and Technology

Sep 2016 - Jun 2020

Taizhou

• Job experience:

2016.09~2019.09 Taizhou University School of Computer Science and Technology League Secretary and Vice Chairman of Student Union

2017.09~2018.09 Vice President of Taizhou University Computer Association

2017.07~2019.02 Taizhou Gaogang District Classic Reading Promotion Association Volunteers

during

's tenure, he was responsible for the PU Second Classroom of the Youth League Committee, the Olympic Blue System of Learning and Engineering, and constructed the implementation rules of the PU Second Classroom of the College and landed them. Assist the Party branch in developing party members and other organizational work. He

has organized a number of class, college, and school-level activities, such as organizing college-level welcome parties, school-level challenge cups, youth creation, career planning competitions, etc., and led teams to be responsible for district-level government volunteer projects.

- **Learning:**

The undergraduate course has maintained the first comprehensive evaluation major for four years, won all scholarships in the school, presided over and completed a provincial-level innovation project, and published two papers.

[1] **Si Yu**, Zhou Fan, Fu Huansen, Wang Guoquan. Design of Vaccine Traceability System Based on Cloud Computing and Big Data [J]. Industrial Control Computer, 2019, 32(01): 102-103 106.

[2] Fu Huansen, Wang Guoquan, Peng Haijing, **Si Yu**, Peng Yang. Vaccine Traceability Platform System Based on Cloud Computing and Big Data [J]. Automation Technology and Application, 2019,38(08):166-170.

- **Honorary awards:**

Scholarships:

National Scholarship for 2018-2019 Academic Year (Certificate No. 30923)

national inspirational scholarship for 2016-2017 and 2017-2018 academic years (certificate numbers: 1705807 and 1805798)

2016-2017 academic year, 2017-2018 academic year, 2018-2019 academic year Taizhou university first-class scholarship

Taizhou University Academic Research Scholarship in 2019, a Beijing Publishing House Ten Thousand Yuan Bonus

National awards:

Second Prize of 2018 National College Students' Computer Skills Application Competition (C Programming Group)

Excellence Award in the 3rd National AIDS Prevention Knowledge Contest for College Students in 2018 (Certificate No.: AD3199341453368)

Excellence Award of the 3rd College Students' Environmental Protection Knowledge Contest in 2019 (Certificate No.: HB3927462293114)

Provincial awards:

2017 Jiangsu University Students Extracurricular Academic Science and Technology Competition and "Challenge Cup" Jiangsu Second Prize

Winning Award in 2018 Jiangsu University Computer Design Competition (Certificate No.: JSUCDC-SSO-2018001)

Huanghe Cup · 2018 China Optics Valley 3551 International Entrepreneurship Competition Provincial Award

Municipal awards:

"Outstanding Communist Youth League Member of Taizhou City" in 2017 and "Outstanding Volunteer" in Gaogang District of Taizhou City in 2017-2019"

Taizhou Gaogang District Classic Reading Promotion Association "Excellent Volunteer", Taizhou Higher Education Park Innovation and Entrepreneurship Competition Second Prize

School-level awards:

school 2016-2018 school year "three good students", school "outstanding Communist Youth League cadres", school "outstanding student cadres"

2017 "Taizhou College Student Person of the Year" shortlist award, 2019 "Taizhou College Top Ten College Student Person of the Year" shortlist award

the first prize of the 2018 college students' computer design competition and the second prize of the school's "internet" innovation and entrepreneurship competition

2017 academic year, 2018 academic year summer social practice advanced individual, school summer outstanding social practice report award first Prize of "College Student Service Outsourcing Innovation and Entrepreneurship Competition" in

2017-2018 Academic Year

Outstanding Interns of Taizhou University in 2020 and "Outstanding Graduates of 2020" of Taizhou University in 2020"

RESEARCH EXPERIENCE

A study of interpretable deep neural networks for urban visual perception analysis

Sep 2020 - Present

Head of the graduate team Computer vision research team, jiangsu university

Zhenjiang

Project description: To solve the problem that the deep neural network model is opaque and unexplainable, a method of manual manipulation and decision visualization (MMDV) is constructed: 1) DRAW CAM method is proposed to operate the key feature map and update the convolution layer parameters, and the model is focused on and learned important parts by the input image mask in the CAM drawn by experts; 2) A hierarchical learning mechanism with sequential decision trees is proposed to provide a decision path for the full connection layer of the network and give strong interpretability; 3) A new interpretability evaluation standard DMR is proposed to evaluate the interpretability of data, models and results. The proposed method can enhance the network comprehension of human in the loop, improve the interpretability of model results, and lay an academic foundation for opening the "black box" model of deep learning and applying it to the field of high-risk decision-making in the future.

Task details: Explore the pain points in the field of interpretability, propose innovation points, code realization, publication of papers and patent application; Write vertical projects and horizontal enterprise projects in related fields; Organize and assign 23-member graduate student team tasks, formulate Deadline, and organize weekly academic conferences to report progress.

In this project, I have hired 1 top meeting, 1 EI meeting and 7 patent applications.

Top recruitment report: <https://cs.uj.edu.cn/info/1125/10487.htm>

Project experience

Byte Jumping 4th Youth Training Camp Low Code Platform -- CMS Mobile Page Configuration System

Jul 2022 - Aug 2022
Online

Front-end development Youth training camp advanced

Skills:

familiar with the new features of html5 css3, familiar with various layouts of mobile terminal and pc terminal, have a solid js foundation, be familiar with closures, inheritance, scope chain and other knowledge, and be familiar with the new es6 syntax in practical application, be familiar with the development of es6 new syntax in projects, be familiar with single page application development using vue family bucket, be familiar with component development, have component development ideas, and be familiar with node.js and node components, familiar with mysql, experience in node project construction and interface development, git command and branch management process in the project, unit testing tool mock.js, webpack packaging tool

Project introduction: The configuration management activity page is used as a low-code visualization application platform to build an H5 activity page through drag-and-drop components and model-driven logic.

This reduces the pressure on developers and improves efficiency. The **technology stack** of the EXPRESS server using the CRS H5 resolution platform including the CMS-MANAGE content management system: vue family bucket (vue-router vuex based on element-ui self-developed business component library and atomic component library, etc.)

Task details: Participate in the development of CMS mobile page configuration system, mainly build server projects through express, use core modules to implement MVC architecture, realize connection and operation reading database through sequelize ORM framework, and realize business interface functions, including activity list, data storage of activity pages, and file server construction and upload. In addition, the crs H5 parsing platform restores the configured data to the required rendering components by parsing the active page data, and realizes cross-source communication with cms-manage projects through iframe. The problem of slow release review is solved by embedding crs system into applets and APP.

Github project address: <https://github.com/siyukenny/LowCode->

Project launch demo address: <http://www.siyukenny.top:3011/cms-manage>

SKILLS, CERTIFICATIONS & OTHERS

- Skills:** Node, js, Front End, vue, python, pytorch, java, C Language, linux, Office, PowerPoint, Excel, Word, Writing Copy Project Plan, Video Editing, photoshop, Public Number Operation, Project Online Deployment
- Certifications:** Soft Test Intermediate (Software Designer), Computer Level 4 Network Engineer, Innovation and Entrepreneurship Teacher Training Certificate
- Languages:** English (CET-6)
- Activities:** Served as the star promotion officer of Tencent University, participated in the Tencent Rhino Bird Research Camp in the summer of 2021, and obtained the closing certificate; participated in the VALSE2021 academic annual meeting in Hangzhou and communicated with Daniel scholars in related fields; participated in the byte beat in the summer of 2022 Youth training camp, and obtained the closing certificate.

SUMMARY

Diligence, hard work: outstanding results during the school period, top the list, able to endure hardships, have a desire to advance, never relax;

Accumulated and developed, scientific research outstanding: good at scientific research papers and PPT production, scientific research can endure loneliness, can calm down to do research;

Good communication skills and superior management skills: Strong organization and coordination skills, solid writing skills, and can bring trust and dependence to people around you.

Portfolio



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