4. CV of the researcher

PERSONAL INFORMATION

Name: Shangshang Yang
Date of Birth: 08/01/1995
Title: Research Assistant
Affiliation: School of Computer Science and Technology, Anhui University
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EDUCATIONAL BACKGROUND

Ph.D. Degree, 09/2017 – 10/2022
Major: Computer Science and Technology
Anhui University, China
Won the National Scholarship in 2019
Won the Academic Scholarship in 2017, 2018, 2019, and 2020
Advisor: Prof. Xingyi Zhang (IEEE Fellow)
B.E. Degree, 09/2013 – 10/2017
Major: Network Engineering
Anhui University, China
Won the National Encouragement Scholarship in 2014

ACADEMIC & WORK EXPERIENCE

08/2025 – Present
Research Assistant, Anhui University, China
Advisor: Prof. Xingyi Zhang (IEEE Fellow)
06/2025 – 07/2025
Research Assistant, Hong Kong Polytechnic University, China
Advisor: Prof. Kay Chen Tan (IEEE Fellow)
03/2023 – 05/2025
Postdoctoral, Anhui University, China
Advisor: Prof. Xingyi Zhang (IEEE Fellow)
03/2022 – 09/2022
Visiting PhD Student, Bielefeld University, Germany
Advisor: Prof. Yaochu Jin (IEEE Fellow)
07/2021 – 08/2021
Assistant Researcher, Tencent Technology (Beijing) Co., Ltd, China
Business Group of Education

MAJOR CAREER ACCOMPLISHMENTS OF THE RESEARCHER

Academic achievements: I am a Research Assistant at Anhui University (AHU), China. My major research work concentrates on automated machine learning, neural architecture search, and evolutionary computation for interdisciplinary applications in smart education. I have a solid track record of publications in international journals and conferences. I have authored/coauthored a total of 44 peer-reviewed papers, 29 of which are published in prestigious IEEE Trans. (TNNLS, TEVC, TETCI, etc.) and top-tier international conferences (NeurIPS, AAAI, IJCAI, KDD, SIGIR, etc.). According to my profile on Google Scholar, the current Google Scholar citation is 700+ with an H-Index of 16. I have 5 Chinese patents that are mainly related to artificial intelligence and smart education technologies. I also received the Best Poster Paper Award at the 2022 Annual Conference of Anhui Artificial Intelligence Society and the Best Paper Award at the 2023 DOCS International Conference. Besides, I have also won 5 prestigious competition awards at the IEEE WCCI competitions and the IEEE CEC competitions.

SELECTED PATENTS

[1] S. Yang, L. Qin, X. Yu, H. Ma, and Y. Tian. A Knowledge Tracing Method Based on Transformer Neural Architecture Search, No. CN202410388534X
[2] S. Yang, M. Chen, X. Yu, H. Ma, and Y. Tian. A Neural Architecture Search Method Based on Multi-Objectives, No. CN2024104100144
[3] Y. Tian, Z. Shi, S. Yang, and X. Zhang. An Image Recognition Method Based on A Gradient-Guided Evolutionary Algorithm, No. ZL202111639517.1
[4] X. Zhang, J. Li, S. Yang, X. Yu, and H. Ma. A Cognitive Diagnosis Method for Heterogeneous Graph Learning Based on Imbalance Perception, No. CN120144950A
[5] M. Cao, H. Ma, S. Yang, and X. Zhang. Distance-Aware Knowledge Tracing, No. CN117933301A

RESEARCH PROJECTS

AWARDS

[1] The Second Runner-Up Award of the 2025 IEEE Congress on Evolutionary Computation (C10) Dynamic Optimisation Problems Competition, Jun. 2025 (as the advisor)
[2] The First Prize Award of the 2025 IEEE Congress on Evolutionary Computation (C06) Constrained Single and Multi-objective Numerical Optimisation Competition, Jun. 2025 (as the advisor)
[3] The Bronze Award of the 2024 China International College Students' Internet+' Innovation Competition, project: Multi-Mode and Multi-Intelligence: Global Intelligent Modelling Optimisation Platform, Oct. 2024 (as the advisor)
[4] The Golden Award of the 2024 Anhui College Students' 'Internet+' Innovation Competition, project: Multi-Mode and Multi-Intelligence - Global Intelligent Modelling Optimisation Platform, Aug. 2024 (as the advisor)
[5] The Third Prize Award of the 2024 China College Student Service Outsourcing Innovation and Entrepreneurship Competition, May 2024 (as the advisor)
[6] The First Prize Award of the 2025 IEEE Congress on Evolutionary Computation (C07) Large-Scale Multi-objective Optimisation for Status Assessment of Measuring Equipment Competition, Jun. 2025

[7] The First Prize Award of the 2025 IEEE Congress on Evolutionary Computation (C04) EMAP Dataset Challenge: Predicting Affective States & Physiological Response with Feature Selection Competition, Jun. 2025
[8] The Postdoctoral Fellowship (Grade B) of China Postdoctoral Science Foundation, Nov. 2024 (top 5%)
[9] The First Prize Award of the 2024 IEEE World Congress on Computational Intelligence Large-Scale Multi-objective Optimisation for Status Assessment of Measuring Equipment Competition, Jul. 2024
[10] The Excellent Postgraduate Tutor Team of Anhui Province in 2023, team: Institute of Bioinspired Intelligence and Mining Knowledge Postgraduate Tutor Team, May 2024
[11] The First Prize Award of the 2023 IEEE Congress on Evolutionary Computation Large-Scale Continuous Optimisation for Non-Contact Measurement – MO Optimisation, Jul. 2023
[12] The Best Paper Award of the 2023 International Conference on Data-driven Optimisation of Complex Systems, paper: Evolutionary Multi-Objective Neural Architecture Search for Generalised Cognitive Diagnosis Models, Awarded by IEEE Computational Intelligence Society, Sept. 2023
[13] The Best Poster Paper Award of the 2022 Annual Conference of Anhui Artificial Intelligence Society, paper: Accelerating Evolutionary Neural Architecture Search via Multi-Fidelity Evaluation, Mar. 2023
[14] The Silver Award of the 2022 Anhui College Students' 'Internet+' Innovation Competition, project: GOpt: Industry-University-Research Integrated Computing Intelligent Optimiser, Nov. 2022
[15] The National Scholarship for Postgraduate, Awarded by the Ministry of Education, China, Dec. 2019
[16] The Academic Scholarships, Awarded by Anhui University, Nov. 2017, Nov. 2018, Nov. 2019, and Nov. 2020
[17] The National Encouragement Scholarship, Awarded by Anhui Provincial Education Department, Nov. 2014

CONFERENCE ORGANISATIONS

[1] As a Session Chair, organising a Special Session at the 2025 IEEE Congress on Evolutionary Computation with the Special Session on "Large-Scale Multi-objective Optimisation", Hangzhou, China, Jun. 2025
[2] As a Local Organisation Chair, organising the 1st Chinese National Forum for Secretary/Dean of Computer Colleges of Local Universities, Hefei, China, May 2024