Shangshang Yang - Curriculum Vitae

Date of Birth:	8th January 1995
Nationality:	Chinese
Status:	Postdoctoral
Research Interest:	Trustworthy Intelligent Education, Neural Architecture Search, Evolutionary Computation
Address:	School of Artificial Intelligence, Anhui University Hefei, 230601, China
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Education

2017.09 - 2022.12 **Ph.D. Degree in Computer Science** — *Hefei, China*
Anhui University
Supervisor: Prof. **Xingyi Zhang**

2022.03 - 2022.10 **Visiting Ph.D. Student** — *Bielefeld, Germany*
Bielefeld University
Co-Supervisor: Prof. **Yaochu Jin**

2013.09 - 2017.06 **Bachelor Degree in Network Engineering** — *Hefei, China*
Anhui University

Experience

2023.03- Present **Postdoctoral** — *Hefei, China*
Anhui University
Focusing on research related to trustworthy intelligent education combined with evolutionary computation, especially with evolutionary NAS.
Supervisor: Prof. **Xingyi Zhang**

2021.07-2021.10 **Assistant Researcher Intern** — *Beijing, China*
Tencent Technology (Beijing) Co., Ltd
Focused on research related to knowledge tracing in intelligent education, exploring more effective Transformer with better interpretability by evolutionary NAS.
Mentor: Yunbo Cao

Main Publications

Conference paper
NeurIPS-2024
Shangshang Yang, Mingyang Chen, Ziwen Wang, Xiaoshan Yu, Panpan Zhang, Haiping Ma*, and Xingyi Zhang. *DisenGCD: A Meta Multigraph-assisted Disentangled Graph Learning Framework for Cognitive Diagnosis.* Proceedings of the Thirty-eighth Conference on Neural Information Processing Systems, 2024. (CCF-A).

Journal article
TEVC-2024
Shangshang Yang, Haiping Ma, Ying Bi, Ye Tian, Limiao Zhang*, Yaochu Jin, and Xingyi Zhang*. *An Evolutionary Multi-Objective Neural Architecture Search Approach to Advancing Cognitive Diagnosis in Intelligent Education.* IEEE Transactions on Evolutionary Computation, 2024. (JCR Q1).

Journal article
TETCI-2024
Shangshang Yang, Xiangkun Sun, Ke Xu, Yuanchao Liu, Ye Tian*, and Xingyi Zhang*. *Hybrid Architecture-based Evolutionary Robust Neural Architecture Search.* IEEE Transactions on Emerging Topics in Computational Intelligence, 2024. (JCR Q2).

Conference paper AAAI-24

Haiping Ma, Changqian Wang, Hengshu Zhu, **Shangshang Yang***, Xiaoming Zhang, and Xingyi Zhang*. *Enhancing Cognitive Diagnosis using Un-interacted Exercises: A Collaboration-aware Mixed Sampling Approach.* Proceedings of the Thirty-Eighth AAAI Conference on Artificial Intelligence, 2024. (CCF-A).

Conference paper NeurIPS-2023

Shangshang Yang, Xiaoshan Yu, Ye Tian, Xueming Yan, Haiping Ma*, and Xingyi Zhang* *Evolutionary Neural Architecture Search for Transformer in Knowledge Tracing.* Proceedings of the Thirty-seventh Conference on Neural Information Processing Systems, 2023. (CCF-A).

Conference paper DOCS-2023

Shangshang Yang, Cheng Zhen, Ye Tian, Haiping Ma*, Yuanchao Liu, Panpan Zhang, and Xingyi Zhang. *Evolutionary Multi-Objective Neural Architecture Search for Generalized Cognitive Diagnosis Models.* Proceedings of the 2023 International Conference on Data-driven Optimization of Complex Systems. (Best Paper Award).

Conference paper ICCV-2023

Ke Xu, Lei Han, Ye Tian, **Shangshang Yang***, and Xingyi Zhang. *EQ-Net: Elastic Quantization Neural Networks.* Proceedings of the the 2023 International Conference on Computer Vision (CCF A), 2023. (CCF-A).

Journal article TETCI-2023

Shangshang Yang, Haoyu Wei, Haiping Ma*, Ye Tian, Xingyi Zhang, Yunbo Cao, and Yaochu Jin. *Cognitive Diagnosis-Based Personalized Exercise Group Assembly via a Multi-Objective Evolutionary Algorithm.* IEEE Transactions on Emerging Topics in Computational Intelligence, 2023. (JCR Q2).

Journal article TCDS-2022

Shangshang Yang, Ye Tian, Xiaoshu Xiang*, Shicheng Peng, and Xingyi Zhang*. *Accelerating Evolutionary Neural Architecture Search via Multi-Fidelity Evaluation.* IEEE Transactions on Cognitive and Developmental Systems, 2022. (JCR Q2).

Journal article TNNLS-2021

Shangshang Yang, Ye Tian*, Cheng He, Xingyi Zhang*, Kan Chen Tan, and Yaochu Jin. *A Gradient-Guided Evolutionary Approach to Training Deep Neural Networks.* IEEE Transactions on Neural Networks and Learning Systems, 2021. (JCR Q1).

Journal article TFS-2019

Ye Tian, **Shangshang Yang**, Xingyi Zhang*. *An Evolutionary Multiobjective Optimization Based Fuzzy Method for Overlapping Community Detection.* IEEE Transactions on Fuzzy Systems, 2019. (JCR Q1).

Journal article TETCI-2019

Ye Tian, **Shangshang Yang**, Lei Zhang, Fuchen Duan, Xingyi Zhang*. *A Surrogate-Assisted Multiobjective Evolutionary Algorithm for Large-Scale Task-Oriented Pattern Mining.* IEEE Transactions on Emerging Topics in Computational Intelligence, 2019. (JCR Q2).

My Fundings

2024-2025 — The **Postdoctoral Fellowship Program (Grade B)** of China Postdoctoral Science Foundation under Grant Number GZB20240002

2023-2025 — The **China Postdoctoral Science Foundation** (74th Batch of General Funding) under Grant Number 2023M740015

2024-2026 — The **National Natural Science Foundation of China** (Youth Project) under Grant Number 62302010

2024-2025 — The **Anhui Province Key Laboratory of Intelligent Computing and Applications** under Grant Number AFZNJS2024KF01

Honors and Awards

2024.09 — The **Golden Award** of *the 2024 Anhui College Students' 'Internet+' Innovation and Entrepreneurship Competition* (GAOJIAO Main Track).

2024.07 — The **Winner** of *the Competition on "Large-scale Multiobjective Optimization for Status Assessment of Measuring Equipment" at the 2024 IEEE World Conference on Computational Intelligence.*

2023.09	The **Best Paper** of *the 2023 International Conference on Data-driven Optimization of Complex Systems (DOCS 2023)*: the paper entitled "Evolutionary Multi-Objective Neural Architecture Search for Generalized Cognitive Diagnosis Models".
2023.06	The **Winner** of the Competition on "*Large-scale Continuous Optimization for Noncontact Measurement- MO Optimization" at the 2023 IEEE Congress on Evolutionary Computation*.
2022.12	The **Best Poster Paper** of *the 2022 Annual Conference of Anhui Artificial Intelligence Society*: the paper entitled "Accelerating Evolutionary Neural Architecture Search via Multi-fidelity Evaluation".
2022.06	The **Silver Award** of *the 2022 Anhui College Students' 'Internet+' Innovation and Entrepreneurship Competition (GAOJIAO Main Track)*.

Social Services

Journal reviewers	IEEE INNLS, TAI, TEVC, TETCI, TCSS, CAIS, Neurocomputing
Conference-reviewers	KDD-2024, ACM MM-2024, ICLR-2025, NeurIPS-2024, WWW-2025 AAAI-2025, ACML-2024, AISTATS-2025