YUHAO HE

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Google Scholar GitHub

EDUCATION

Macau University of Science and Technology, Macau, China Sep. 2025 – Present
Ph.D. in Artificial Intelligence GPA: 3.85/4.0
Faculty of Innovation Engineering

Macau University of Science and Technology, Macau, China Sep. 2023 – Jun. 2025
M.S. in Intelligent Technology GPA: 3.71/4.0
Faculty of Innovation Engineering

Foshan University, Guangdong, China Sep. 2019 – Jun. 2023
B.S. in Mathematics and Applied Mathematics (AI Innovation Class) GPA: 86.8/100
Department of Mathematics and Big Data Rank: Top 5/72

RESEARCH INTERESTS

Adversarial Machine Learning · Data Poisoning · Generative AI Security

PUBLICATIONS

- **Yuhao He** and Jinyu Tian, "Escape the Context Manifold: Preventing DiT In-Context Editing via Conditional Flow Hijacking," *NeurIPS*, 2026.
- **Yuhao He**, Jinyu Tian, Xianwei Zheng, Li Dong, Yuanman Li, and Jiantao Zhou, "Deferred Poisoning: Making the Model More Vulnerable via Hessian Singularization," *AAAI*, 2026.
- **Yuhao He**, Jinyu Tian, Haiwei Wu, and Jianqing Li, "Structure Disruption: Subverting Malicious Diffusion-Based Inpainting via Self-Attention Query Perturbation," *arXiv:2505.19425*, 2025.
- **Yuhao He**, Xianwei Zheng, and Qing Miao, "TFA-CLSTMNN: Novel Convolutional Network for Sound-Based Diagnosis of COVID-19," *International Journal of Wavelets, Multiresolution and Information Processing*, vol. 21, no. 3, 2250058, 2023.

WORK EXPERIENCE

Zhuhai UM Science & Technology Research Institute Jul. 2023 – Sep. 2023
Research Assistant

- Developed an AI-powered virtual fashion model generation system using SAM and Stable Diffusion to generate images of models wearing specified garments, reducing the need for traditional photoshoots. Deployed the system via Flask for practical e-commerce applications.

JOYY (Guangzhou) Feb. 2023 – Jun. 2023
Algorithm Intern

- Improved the detection of policy-violating promotional content on social media platforms by optimizing content filtering rules, reducing the false-negative rate from 12% to 5%.

Foshan Dayan Data Technology Co., Ltd. Jun. 2021 – Aug. 2021
Algorithm and Development Intern

- Contributed to the development of a deep learning-based strawberry disease and pest recognition system, achieving 89% accuracy across 14 categories.
- Led the development of a WeChat mini-program deployed in local strawberry farms, resulting in a registered software copyright.

SELECTED HONORS & AWARDS

- **National Scholarship for Undergraduates** 2021
- National Second Prize, China Undergraduate Mathematical Contest in Modeling 2021
- Outstanding Undergraduate Graduate, Foshan University 2023
- Second Prize, Guangdong-Hong Kong-Macao Mathematical and Financial Modeling Competition 2020

PATENTS & SOFTWARE COPYRIGHTS

- [**Patent**] Chuntao Jiang, Guanshou Gan, Xuncan Xiao, **Yuhao He**, et al., "A Method and Device for Pest and Disease Identification Based on a Residual Network," Chinese Patent Application No. 202210536421.0 (CN115035511A), 2022.
- [**Software Copyright**] Foshan Dayan Data Technology Co., Ltd., **Yuhao He**, et al., "Strawberry Pest and Disease Identification Mini Program V1.0," Registration No. 2022SRA003183, 2021.