Alison Xianting Huang (Hinting Wong)

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EDUCATION

Jinan University

National 'Project 211', Top 1.9% by CWUR 2024, , JNU Homepage — Sep 2021 - Jun 2025

Bachelor of Computer Science and Technology (All-English teaching)

- GPA: 85/100
- Related Courses: Advanced Artificial Intelligence (100), Linear Algebra (90), Data Structures (91), etc.
- Honors: National Ministry of Education - Hong Kong, Macau & Overseas Students Scholarship (First-Class)

OVERVIEW

* Contributed to 9 research papers.
* Awarded 10+ national/provincial/university-level recognitions, inculding Kaggle Competitions
* Currently involved in 1 national key project.
* Lead 1 national-level student project and 3 provincial/university-level projects.
* Research experience focuses on Deep Learning, image-based tasks, with emphasis on AI Security/Trustworthy AI.

PUBLICATIONS

[J1] S Zhou, **X Huang** (Student First Author), et al. "Transferability of Adversarial Attacks on Tiny Deep Learning Models for IoT Unmanned Aerial Vehicles"
- Online: IEEE Internet of Things Journal (IoT-J, JCR Q1), DOI: 10.1109/jiot.2023.3329954

[J2] K Wang, **X Huang** (Student First Author), et al. "Optimizing Neural Network Training: A Markov Chain Approach for Resource Conservation"
- Online: IEEE Transactions on Artificia Intelligence (TAI, New Issue), DOI: 10.1109/tai.2024.3413688

[J3] D Zhou, Z Song, Z Chen, **X Huang**, et al. "Advancing Explainability of Adversarial Trained Convolutional Neural Networks for Robust Engineering Applications"
- Accepted: Engineering Applications of Artificial Intelligence (EAAI, JCR Q1)

[J4] **X Huang**, W Li, J Pan, et al. "Alleviating Backtest Overfitting for Financial Models via TimeGAN-Enabled Time Series Data Augmentation"
- Under Review: Finance Research Letters (FRL, JCR Q1)

[J5] K Wang, T Yan, **X Huang**, et al. "Enhancing Interpretable Adversarial Robustness of Convolutional Neural Networks via Statistical Physics-Inspired Layer"
- Under Review: International Journal of Computer Vision (IJCV, JCR Q1, CCF-A)

[C1] J Wu, **X Huang** , et al. "Leveraging Diffusion-Generated Synthetic Data to Improve Adversarial Robustness on ImageNet"
- Under Review: Conference on Computer Vision and Pattern Recognition (CVPR 2025, CCF-A)

[C2] J Wu, Z Chen, J Qiu, **X Huang**, et al. "BitSliceTrans: An Attack-Free Method to Quickly Remove Adversarial Noise Using Bitwise Operations"
- Under Revision, previously under review at AAAI 2025, received scores: 5, 5, 4 out of 9

[C3] D Zhou, Z Song, K Ye, **X Huang**, et al. "Can Corner Case Unknown Objects Detection be Causal Inferenced?"
- Under Revision, previously under review at AAAI 2025, received scores: 4, 4 out of 9

[C4] Z Chen, K Wang, X Lin, **X Huang**, et al. "Unveiling Predictive Patterns in Deep Learning Classifiers"
- Under Revision, previously under review at AAAI 2025, received scores: 4, 4 out of 9

'Student First Author' refers to cases where the supervisor is listed as the first and the student as the second one, JNU policy recognises the student's contribution as equivalent to first authorship, common in mainland China

PROJECTS & COMPETITIONS

Kaggle Competitions

Ranked in the top 1.56% out of 205,737 participants globally (as of Oct 2024), Kaggle Profile

- Participate in: "Home Credit - Credit Risk Model Stability" (Top 4%, Silver Medal)
- Participate in: "Child Mind Institute - Detect Sleep States" (Top 7%, Bronze Medal)

National Key Research and Development Program of China 2022 - Present

Project Member, Total Budget: 47.78 milion RMB or 5.19 milion GBP

[P1] "Research and Application Demonstration of Key Technologies for Cross-Sector & Region Social Credit Governance" (Project Number: 2022YFC3303200)

- Subproject 3 - Research on Model Validity, Fairness Testing, and Transparent Reasoning
- The Program is one of the highest-level projects in China.

Innovation & Entrepreneurship Projects 2021 - Present

Project Leader/Member, Total Budget/Bonus: around 30,000 RMB or 3264 GBP, 7 Awards

[P1] "University Mutual Assistance Platform Based on Fair Machine Learning (Time Bank Model)"

- Join: National College Students Innovation & Entrepreneurship Training Program (National Level Project, Received a 20,000 RMB or 2,172 GBP grant)
- Participate in: Innovation and Entrepreneurship Competition of JNU for HK, Macau (Bronze Medal)
- Participate in: Challenge Cup - Academic & Technological Competition of JNU (Bronze Medal)

[P2] "Digital Human Age Stage Image and Voice Preservation - Creating Timeless Family Memories"

- Participate in: Internet Plus - Innovation & Entrepreneurship Competition of JNU (Industry Proposition Track, by SenseTime) (Bronze Medal)
- Participate in: China International College Students' Innovation and Entrepreneurship Competition of JNU (Silver Medal)

[P3] "Robust Control Methods for Industrial Vision Systems Based on Trusted Deep Learning"

- Participate in: Internet Plus - Innovation and Entrepreneurship Competition of JNU (Bronze Medal)

[P4] "AI Box: Open Platform for AI System Security Evaluation"

- Join: Challenge Cup - Extracurricular Academic and Technological Innovation Plan of JNU (University Level, Received a 2,000 RMB or 217 GBP grant)
- Participate in: Challenge Cup - College Entrepreneurship Competition of JNU (Silver Medal)

[P5] "LawQuery - Law LLM Based on Generative Artificial Intelligence"

- Participate in: Fisherman Cup - Innovation & Entrepreneurship Competition of JNU (Silver Medal)

Programming & Mathematical Modeling Competitions

Team Leader/Member

- Participate in: "CCF: CAT National Algotithm Elite Competition" (Top 7%, Second Prize)
- Participate in: "ShuWei Cup - International Mathematical Contest in Modeling" (Top 14%, H Mentions)

STUDENT WORK

- Captain (College Debate Team, Awarded Outstanding Title)
- Teaching Assistant (Fall 2022, Python Tutoring Group for College Freshmen)
- Teaching Assistant (Fall 2024, Major Courses: Data Structure, Data Structure Lab)

SKILLS

- Languages: Python (Proficient), C/C++, Java, HTML/CSS/JS, SQL; Latex, Matlab
- Technologies/Frameworks: Deep Learning (PyTorch), Data Statistics, Basic Development