

Jin Hu

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Haidian, Beijing, China

Research Area: AI Safety, Adversarial ML, Generative Modeling.

ABOUT ME

I am currently a PhD student (2023-) at *Zhongguancun Laboratory* and *State Key Laboratory of Complex & Critical Software Environment, Beihang University*, advised by Prof. [Xianglong Liu](#), Prof. [Ke Xu](#), and Dr. [Jiakai Wang](#). I plan to graduate around the end of 2027.

My current research focuses on **Physical Adversarial Machine Learning (AdvML)** and **Visual Generative Modeling**, aiming to explore and measure the defects in AI models and introduce new scalable paradigms for trustworthy AI systems, as well as their interdisciplinary applications. I am an organizer of the 6th AdvML workshop in CVPR 2026 and a committee member of the 5th AdvML workshop in CVPR 2025.

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [J.1] **Jin Hu**, et al. (2025). **DynamicPAE: Generating Scene-Aware Physical Adversarial Examples in Real-Time.** *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2026. DOI: 10.1109/TPAMI.2025.3626068.
In this work, we overcome the technical challenges and establish the first end-to-end training framework for scene-conditional physical adversarial examples, and verify its effectiveness in edge devices.
- [C.1] **Jin Hu**, et al. (2025). **Exploring Semantic-constrained Adversarial Example with Instruction Uncertainty Reduction.** In *Neural Information Processing Systems*, 2025.
In this work, we directly generate robust, transferable adversarial examples with semantic constraints derived from the given instruction using diffusion models, and establish the first 3D generation pipeline in this scenario.
- [P.1] **Jin Hu**, et al. (2022). **Neural Architecture Search Method, Apparatus, Device, and Storage Medium.** Patent ID: CN115272825A. Technical report: <https://arxiv.org/pdf/2207.14524>.
- [J.2] Jiakai Wang, Xianglong Liu, **Jin Hu**, et al. (2024). **Adversarial Examples in the Physical World: A Survey.** Submitted to IJCV.

ACADEMIC EXPERIENCE

- **Zhongguancun Laboratory** June 2023 -
Beijing, China
Student assistant researcher. Our work focus on the R&D project on autonomous driving safety.
- **State Key Laboratory of Complex & Critical Software Environment, Beihang University** Mar. 2022 - April. 2023
Beijing, China
Postgraduate student. I participated in the research project of structural information theory and applications with Prof. Hao Peng and under the supervision of Prof. Angsheng Li.
- **SenseTime Research** May 2021 - May 2022
Beijing, China
Research Intern. I improved the neural network automatic structure optimization method for AI codec models.
- **Beihang University** Sep. 2019 - June 2020
Beijing, China
Teaching Assistant for Basic Programming Training.

EDUCATION

- **Beihang University** Sep. 2023 -
Beijing, China
PhD Student.
- **Beihang University, majored in computer science and technology. GPA 3.84 / 4.0** Sep. 2022 - Sep. 2023
Beijing, China
Master's student
- **Beihang University, majored in computer science and technology. GPA 3.75 / 4.0** Sep. 2018 - June 2022
Beijing, China
*Bachelor's student. Joint cultivation program, degree from Beijing University of Technology.
All courses completed at Beihang University.*

HONORS

- **Outstanding Graduate of Beijing** July 2022
- **ICPC Regional Contest - Silver Medal** Dec. 2020
International Collegiate Programming Contest (ICPC) - Shanghai Regional Contest. (previously known as ACM-ICPC) 
- **Merit Student (Top 5%)** 2018 - 2019
2020 - 2021
Beihang University