# Yue Su

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## Education

**Xidian University**                                                                                   **XiAn, China**
*Undergraduate in School of Artificial Intelligence*                                                    *2022–2026*
- **RANK:** 4/174  **GPA:** 3.7/4.0  **TOEFL:** 90
- **Courses:** Algorithm 99, Data Structure 98, Intelligent system 98, Intelligent Computing 97, Circuit 96, Pattern Recognition 94, Data Mining 94, Advanced Mathematics 94, Engineering 93, Program 93, Machine Learning 92.

## Experience

- **Machine Vision and Intelligence Group**                                         **Shanghai Jiao Tong University**
  *Research Assistant advised by Prof. Cewu Lu, Prof. Lixin Yang*                                *July 2024 - Now*
  Pursuing research in robot learning with particular attention to perception and inference about the real world.
- **Key Laboratory of Cooperative Intelligent Systems**                                        **Xidian University**
  *Research Assistant advised by Prof. Maoguo Gong, Prof. Hao Li*                   *September 2023 - July 2024*
  Contributed to research on adversarial attacks against computer vision systems.

## Publications

- **Dense Policy: Bidirectional Autoregressive Learning of Actions**

  **Yue Su,**[*] Xinyu Zhan[*], Hongjie Fang, Han Xue, Haoshu Fang, Yong-Lu Li, Cewu Lu, Lixin Yang[†]

  Propose Dense Policy, A bidirectional robotic autoregressive policy, which infers trajectories by gradually expanding actions from sparse keyframes, has demonstrated capabilities exceeding diffusion-based policies.

  *Accepted in ICCV 2025* [Arxiv] [code] [website]
- **Motion Before Action: Diffusing Object Motion as Manipulation Condition**

  **Yue Su,**[*] Xinyu Zhan[*], Hongjie Fang, Yong-Lu Li, Cewu Lu, Lixin Yang[†]

  Propose MBA, a novel module that employs two cascaded diffusion processes for robot action generation under object motion guidance. Designed as a plug-and-play component, MBA can be flexibly integrated into existing robotic manipulation policies with diffusion action heads.

  *Accepted in RA-L 2025, Present on ICRA 2026* [Arxiv] [code] [website]
- **Generative Adversarial Patches for Physical Attacks on Cross-Modal Pedestrian Re-Identification**

  **Yue Su,** Hao Li[†], Maoguo Gong[†]

  A generative adversarial attack on VI-ReID models perturbs modality-invariant features, creating patches that expose sota vulnerabilities and highlight the need for enhanced feature extraction.

  *Arxiv 2024 Preprint* [Arxiv]
- **AdvDisplay: Adversarial Display Assembled by Thermoelectric Cooler for Fooling Thermal Infrared Detectors**

  Hao Li[†], Fanggao Wan, **Yue Su,** Yue Wu, Mingyang Zhang, Maoguo Gong[†]

  Historically, infrared adversarial attacks were single-use and unflexible. Using TEC, we implemented attacks adaptable to various scenarios, causing pedestrian detection models to misjudge.

  *Accepted in AAAI 2025* [AAAI-2025]

## Projects

- **MetaPalace: Let you in a meta world of The Palace Museum**

  We've done what the Old Palace official website couldn't: offering 3D artifact views with single-view reconstruction and an interactive LLM-powered tour guider using RAG technology.

  [website] [front-end code] [back-end code]
- **More Projects in** Homepage Link.

## Community Experience

- **Head of the Research Department of Microsoft Club, Xidian University.**