

# **Yunxiao (Jack) Zhang**

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## **EDUCATION**

<b>Texas A&amp;M University, College Station, TX</b>	<b>Expected May 2026</b>
<i>M.S. in Visualization</i> <i>GPA 3.88 / 4.00</i>	
<u>Course Highlights:</u> Augmented Reality, Machine Learning for 3D Visualization & Graphics, Generative AI for Art & Communication	
<b>Fudan University, Shanghai, China</b>	<b>Jun 2024</b>
<i>Bachelor of Engineering in Software Engineering</i>	
<u>Course Highlights:</u> Computer Graphics, Data Structures, Software Technology Innovation, Deep Learning: Theory & Applications	
<b>University of Texas at Dallas, Dallas, TX</b>	<b>Aug 2022 – Dec 2022</b>
<i>Exchange Program through Fudan University</i>	
<u>Course Highlights:</u> Artificial Intelligence, Advanced Algorithm Design and Analysis	

## **RESEARCH PROJECT**

### **Time-Archival Camera Virtualization for Sports and Visual Performance ([project page](#) | [code](#))**

Y. Zhang, W. Stone, and S. Kumar. Under revision at *CVIU*, Jan. 2026

- Proposed a **calibration-first, time-indexed multi-view dynamic 3D reconstruction** framework (“archival snapshots”) enabling per-timestep neural rendering / view synthesis and consistent evaluation over time
- Built an end-to-end pipeline (dataset prep → camera calibration handling → training → evaluation) and achieved improved rendering fidelity (PSNR/LPIPS) against strong baselines on dynamic scenes

### **Time-Archival 3D Gaussian Splatting (TA-3DGS) ([code](#))**

- Implemented warm-start, per-frame 3D Gaussian Splatting for dynamic reconstruction under fast motion and occlusion; compared GT-init vs. warm-start variants with/without densification
- Developed reproducible tooling for ablations and metrics (configs/scripts/logging) to analyze stability–quality trade-offs across time

## **INTERNSHIP EXPERIENCE**

### **Shanghai Lingang Economic Development (Group), Shanghai, China**

**Jul 2023 – Sep 2023**

*Sales & Analytics Intern*

- Analyzed 28+ upcoming client companies with a focus on current business and industry (robotics, electric cars) technology trends, as well as their financial viability
- Created reports on the investment potential of various land locations to be considered for future development projects

### **HFT Investment Management, Shanghai, China**

**Jun 2023 – Jul 2023**

*Software Engineering Intern*

- Designed and developed a front-end application programming interface (API) monitoring system to provide insights into the usage of a select number of internal web applications by the HFT Software Development team

## **LEADERSHIP**

### **Fudan University E-sports Club**

**Apr 2021 – Jun 2022**

*League of Legends Team Leader*

- Led weekly practices, for a team of five students, to prepare them for Regional and National tournaments
- Headed team that won the Yangpu District Championship in March 2022, out of 8 competing teams

## **SKILLS**

**Technology:** Python, Pytorch, JavaScript, Java, C++, React.js, Spring Boot, three.js, WebGL, MySQL, Office Suite

**Language:** Mandarin (Native), English (Fluent)