

# Luoyi Zhang

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## EDUCATION

- **Hong Kong University of Science and Technology** Sep 2023 – May 2027  
Hong Kong SAR  
*BSc in Computer Science with an additional major in Mathematics*
  - **Academic record:** CGA: 4.121/4.3; Major CGA: 4.197/4.3
  - **Selected graduate-level coursework:** Advanced Computer Graphics, Computational Geometry, Advanced Numerical Methods, Advanced Probability Theory, Deep 2D and 3D Visual Scene Understanding, Machine Learning
- **Georgia Institute of Technology** Aug 2025 – Dec 2025  
Atlanta, USA  
*Exchange Student, College of Computing | GPA: 4.0/4.0*
  - **Selected coursework:** Computer Graphics, Machine Learning, Abstract Algebra, Database Systems

## RESEARCH EXPERIENCE

- **Tileable and Loopable 4D Gaussian Splatting** Sep 2025 – Present  
HKUST  
*Ongoing research | Supervised by [Prof. Pedro V. Sander](#)*
  - Studying spatially tileable and temporally loopable dynamic Gaussian representations for computer graphics

## TECHNICAL PROJECTS

- **Career-a-vis-AI** May 2026  
 Demo |  Code  
*Interactive Data Visualization*
  - Developed an interactive visualization for exploring and comparing career data
- **Predicting Flight Arrival Delays** Dec 2025  
 Demo  
*Python, scikit-learn, XGBoost*
  - Built and compared classification and regression models on U.S. Bureau of Transportation Statistics data to predict arrival delays
- **Computer Graphics Foundations – GAMES101 & GAMES202** Jul 2025  
 GAMES101 |  GAMES202  
*C++, OpenGL, GLSL*
  - Implemented coursework in rasterization, ray tracing, physically based shading, screen-space effects, and denoising

## HONORS & AWARDS

- **University Scholarship for Continuing Undergraduate Students** 2024–25, 2025–26  
*Awarded to the top 2% of continuing undergraduate students | HKUST*
- **Dean's List** 2023–24, 2024–25, Spring 2026  
*HKUST*
- **Undergraduate Research Opportunities Program (UROP) Grant** 2024–25  
*HKD 22,500 in undergraduate research funding | HKUST*

## TEACHING EXPERIENCE

- **COMP3211: Learning, Reasoning, and Decision Making in AI** Winter 2025–26; Spring and Summer 2026  
HKUST CSE Department  
*Teaching Assistant*
- **COMP1023: Introduction to Python Programming** Summer 2025  
HKUST CSE Department  
*Teaching Assistant*
- **COMP2011: Programming with C++** Fall 2024; Winter 2024–25  
HKUST CSE Department  
*Teaching Assistant*
  - Prepared programming assignments and supporting materials, including code and documentation
  - Reviewed lecture materials for clarity and correctness, and assisted students during lab sessions with programming exercises and course concepts

## SKILLS

- **Programming Languages:** C++, Python, Rust, SQL, GLSL
- **Graphics & Vision:** OpenGL, WebGL, Blender, 3D Gaussian Splatting, OpenCV
- **Machine Learning:** PyTorch, TensorFlow, Weights & Biases
- **Tools & Platforms:** Git, Linux, CMake, LaTeX, HPC