

# ZIYU WU

◇ (+33) 07 45 45 32 26      ◇ ziyu.wu@polytechnique.edu  
◇ Bâtiment 79, Boulevard des Maréchaux 91120 Palaiseau, France  
◇ Personal Page: 172698691.github.io/

## SUMMARY

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Master 2 student of École Polytechnique, majoring in Artificial Intelligence and Advanced Visual Computing. Currently looking for PhD and job position starting from 2025 or 2026. Research Interest in AI, computer vision, 3D graphics, machine learning, deep learning, etc.

## EDUCATION BACKGROUND

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**École Polytechnique, Paris, France** *September 2023 - September 2025(expected)*  
AI and Advanced Visual Computing | GPA: 3.79/4.0 *Master of Science and Technology*  
• **Published Paper:** *Lightweight Morphology-Aware Encoding for Motion Learning (Eurographics 2025)*

**Southern University of Science and Technology, Shenzhen, China** *September 2019 - August 2023*  
*Intelligence Science and Technology* | GPA: 3.66/4.0 *Bachelor of Engineering*  
• **Published Paper:** Evolutionary Multi-Objective Deep Reinforcement Learning for Autonomous UAV Navigation in Large-Scale Complex Environments (GECCO 2023)

## INTERNSHIP EXPERIENCE

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**Université Paris-Saclay, Paris, France** *May 2025 - November 2025*  
Research Assistant  
Focus on developing self-supervised learning methods for graph-structured data, with a particular emphasis on graph contrastive learning. The work includes theoretical analysis of contrastive loss functions and graph-specific data augmentations. It aims to propose new models that better capture the structural properties of graphs.

**Animaj, Paris, France** *March 2024 - September 2024*  
Engineer Intern  
Develop lightweight models that reduce computational costs and enable faster updates, while also extending these models to handle the temporal dimension for motion modeling. It involves two key steps: Point Cloud 3D Mesh Auto-Encoder and Skeleton-Cylinder Approximation Model.

**King Abdullah University of Science and Technology, Jidda, Saudi Arabia** *September 2022 - May 2023*  
Research Assistant  
Cooperate with the optical laboratory and use the generative model to recover the spectrum of the RGB image. The spectral recovery of images containing single and dual wavelengths was successfully performed.

**Guangdong Zhuowei Network Co., Ltd., Foshan, China** *August 2022 - September 2022*  
Machine Learning Intern  
Mainly responsible for the research and development of vehicle-road cooperation of autonomous vehicles realized through V2VNet. Successfully implemented in the CARLA simulated environment and conducted corresponding tests.

## PROJECT EXPERIENCE

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**3D Luggage Detection for Lost Packages in Airport**  
Cooperate with the company IMDEMIA and Paris Charles de Gaulle Airport, leverage 3D information to reach better recognition for tracking. Combine 2d bounding box and geometric constraints to project 3D volume box.

**Genshin VTuber**  
Implement a real-time Genshin VTuber base on head pose estimation and facial feature point detection. Demonstrated superior accuracy and stability in face recognition and tracking in real-time performance.

## SKILLS

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**Technical:** Python, C/C++, Java, Linux, Machine Learning, Deep Learning, AI, Computer Vision, Graphics, Multi-objective Algorithms

**Language:** English (fluent), Chinese (native), Cantonese (native), French (primary)