

# Ruiyang Zhang

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## INTRODUCTION

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Hello! I am a first-year Ph.D. student at University of Macau, working under the supervision of [Prof. Zhedong Zheng](#). My current research focuses on **Multi-modal Large Language Models (MLLM)**, specifically exploring their inherent uncertainty. Previously, I have conducted research on Unsupervised 3D Object Detection and Self-Paced Learning.

## PUBLICATION

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- [ECCV 2024] **Approaching Outside: Scaling Unsupervised 3D Object Detection from 2D Scene** [30+ Github Stars]  
Ruiyang Zhang, Hu Zhang, Hang Yu, Zhedong Zheng  
[\[Paper\]](#) | [\[Code\]](#)  
- Enhance detection of far and small objects via LiDAR and 2D data fusion.

## PREPRINT

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- [Preprint] **Uncertainty-o: One Model-agnostic Framework for Unveiling Epistemic Uncertainty in Large Multimodal Models** [Under review]  
Ruiyang Zhang, Hu Zhang, Hao Fei, Zhedong Zheng  
- Applicable to both large comprehension model and large generation model.
- [Preprint] **VL-Uncertainty: Detecting Hallucination in Large Vision-Language Model via Uncertainty Estimation** [Under review]  
Ruiyang Zhang, Hu Zhang, Zhedong Zheng  
[\[Paper\]](#) | [\[Code\]](#) | [\[Website\]](#)  
- Preliminary attempt for understanding uncertainty in LVLM.
- [Preprint] **Harnessing Uncertainty-aware Bounding Boxes for Unsupervised 3D Object Detection** [Under review]  
Ruiyang Zhang, Hu Zhang, Hang Yu, Zhedong Zheng  
[\[Paper\]](#) | [\[Code\]](#)  
- Aim to mitigate negative impact of noisy pseudo boxes.

## EDUCATION

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**Fudan University**  
B.S. in Computer Science and Technology

Shanghai, China  
Sept. 2017 - Jun. 2021

**University of Macau**  
Ph.D. in Computer Science and Technology

Macau SAR, China  
Aug. 2024 - Jun. 2028

## SELECTED AWARD

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First Prize, National Olympiad in Informatics in Jiangsu Province (NOIP), 2014 & 2015  
First Prize, Chinese Mathematical Olympiad in Jiangsu Province (CMO), 2016  
Third Class Scholarship for Outstanding Students, Fudan University, 2018 & 2019  
Second Prize, China Undergraduate Mathematical Contest in Modeling (CUMCM), 2019

## SERVICE

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Conference Reviewer: ICLR 2025, ICASSP 2025

Journal Reviewer: TOMM

## WORK EXPERIENCE

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**Meituan**

Backend Development Engineer

Shanghai, China

Jul. 2021 - Jun. 2023

## SKILL

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**Programming:** Python (Pytorch), C/C++, Java, MATLAB

**Language:** English (IELTS 7.0/9.0), Chinese (Native)

## OPEN SOURCE

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1. [Awesome List] [Awesome-MLLM-Uncertainty](#) [**30+ Github Stars**] [[Code](#)]  
- Curated list of papers on the uncertainty in multi-modal large language model (MLLM).
2. [Awesome List] [Awesome-MLLM-Reasoning](#) [[Code](#)]  
- Curated list about reasoning ability of MLLM, including OpenAI o1, OpenAI o3-mini, and Slow-Thinking.