

Yuanpeng Tu

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Hong Kong SAR, China

EDUCATION

- **The University of Hong Kong** 09.2023 - now
PhD candidate (Computer Science) Hong Kong SAR, China
 - PhD advisor: [Prof. Hengshuang Zhao](#)
- **Tongji University** 09.2020 - 03.2023
Master (Computer Science) Shanghai, China
- **Tongji University** 09.2016 - 06.2020
Bachelor (Computer Science) Shanghai, China

EXPERIENCE

- **Alibaba Research** 03.2024 - now
Research Intern, Mentored by [Dr. Hao Luo](#) Hangzhou, China
 - Designing the high-fidelity video object insertion model with precise motion control.
 - Paper submitted to CVPR2025, 1 patent
- **QCraft AI** 03.2023 - 06.2023
Research Intern Beijing, China
 - Designing accurate and robust 3D lane detection models.
- **Tencent Youtu Lab** 09.2021 - 03.2023
Research Intern, Mentored by [Dr. Liang Liu](#) and [Dr. Boshen Zhang](#) Shanghai, China
 - Exploring noise-robust and generalized framework designing
 - 4 papers accepted (ECCV24, AAAI24, 2 CVPR23), 2 patents

AWARDS AND SCHOLARSHIPS

HKU Postgraduate Scholarships	2023 - 2027
China Electronics Society Outstanding Master Thesis Prize	2023 - 2023
Shanghai Computer Society Outstanding Master Thesis	2023 - 2023
Shanghai Outstanding Graduates	2023 - 2023
National Scholarship for Graduate Students (Rank 1/350)	2021 - 2022
Scholarship for outstanding Graduate Students (Rank 6/350)	2022 - 2023
Outstanding Graduate Students of Tongji University	2021 - 2023
3rd Place, Out-of-distribution Detection Competition in ECCV2022	2022 - 2022
Second Prize of "Huawei Cup" China Postgraduate Mathematical Modeling Competition	2020 - 2021

SELECTED PUBLICATIONS

[FULL LIST ON GOOGLE SCHOLAR](#)

1. **VideoAnydoor: High-fidelity Video Object Insertion with Precise Motion Control**
Yuanpeng Tu, Hao Luo, Xi Chen, Sihui Ji, Xiang Bai, Hengshuang Zhao.
CVPR2025, [in submission](#), [Video object insertion model](#)
2. **DreamMask: Boosting Open-vocabulary Panoptic Segmentation with Synthetic Data**
Yuanpeng Tu, Xi Chen, Ser-Nam Lim, Hengshuang Zhao.
CVPR2025, [in submission](#)
3. **Memory Consistency Guided Divide-and-Conquer Learning for Generalized Category Discovery**
Yuanpeng Tu, Zhun Zhong, Yuxi Li, Hengshuang Zhao.
CVPR2025, [in submission](#)
4. **DOTA: Decoupled Optimization for Test-Time Adaptation on Noisy Data Streams**
Yuanpeng Tu, Zhun Zhong, Hengshuang Zhao.
CVPR2025, [in submission](#)

5. **Self-supervised Feature Adaptation for 3D Industrial Anomaly Detection**
Yuanpeng Tu, Boshen Zhang, Liang Liu, Yuxi Li, Jiangning Zhang, Yabiao Wang, Chengjie Wang, Cai Rong Zhao.
ECCV2024
6. **Self-supervised Likelihood Estimation with Energy Guidance for Anomaly Segmentation in Urban Scenes**
Yuanpeng Tu, Yuxi Li, Boshen Zhang, Liang Liu, Jiangning Zhang, Yabiao Wang, Cai Rong Zhao.
AAAI2024
7. **Learning with Noisy labels via Self-supervised Adversarial Noisy Masking**
Yuanpeng Tu, Boshen Zhang, Yuxi Li, Liang Liu, Jian Li, Yabiao Wang, Chengjie Wang, Cairong Zhao.
CVPR2023
8. **Learning from Noisy Labels with Decoupled Meta Label Purifier**
Yuanpeng Tu, Boshen Zhang, Yuxi Li, Liang Liu, Jian Li, Yabiao Wang, Chengjie Wang, Cairong Zhao.
CVPR2023
9. **Domain Camera Adaptation and Collaborative Multiple Feature Clustering for Unsupervised Person Re-ID**
Yuanpeng Tu.
ACM MM2022
10. **Salience-guided Iterative Asymmetric Mutual Hashing for Fast Person Re-identification**
Cairong Zhao*, **Yuanpeng Tu***, Zhihui Lai, Fumin Shen, Heng Tao Shen, Duoqian Miao.
TIP2021
11. **Unleashing Diffusion Transformers for Visual Correspondence**
Chaofan Gan, **Yuanpeng Tu**, Xi Chen, Tiejun Chen, Yuxi Li, Mehrtash Harandi, Weiyao Lin.
CVPR2025, [in submission](#)
12. **LayerFlow: A Unified Model for Layer-aware Video Generation**
Sihui Ji, Hao Luo, Xi Chen, **Yuanpeng Tu**, Yiyang Wang, Hengshuang Zhao.
CVPR2025, [in submission](#)
13. **DAC: 2D-3D Retrieval with Noisy Labels via Divide-and-Conquer Alignment and Correction**
Chaofan Gan, **Yuanpeng Tu**, Yuxi Li, Weiyao Lin.
ACM MM2024
14. **Content-Adaptive Auto-Occlusion Network for Occluded Person Re-Identification**
Cairong Zhao, Zefan Qu, Xinyang Jiang, **Yuanpeng Tu**, Xiang Bai.
TIP2023
15. **Learning from Noisy Labels with Coarse-to-fine Sample Credibility Modeling**
Boshen Zhang, Yuxi Li, **Yuanpeng Tu**, Jinlong Peng, Yabiao Wang, Cunlin Wu, Yang Xiao, Cairong Zhao.
ECCV2022 Workshop

ACADEMIC ACTIVITIES

Reviewer: CVPR, ICCV, ECCV, NeurIPS, AAAI, ICLR, IJCV, TCSVT, *etc.*