

# Zizhang Li

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## EDUCATION

since 2024	PhD in COMPUTER SCIENCE, <b>Stanford University</b> , United States Advised by Prof. Jiajun Wu. GPA: 4.0/4.0
2021 - 2024	M.Eng in ELECTRICAL ENGINEERING, <b>Zhejiang University</b> , China Advised by Prof. Yong Liu. GPA: 3.9/4.0
2017 - 2021	B.Eng in CONTROL SCIENCE AND ENGINEERING, <b>Zhejiang University</b> , China Thesis: 4.0/4.0. GPA: 3.9/4.0

## RESEARCH EXPERIENCE

2023	Visiting Student Researcher at <b>SVL, Stanford University</b> , California, USA. <a href="#">Paper</a> on articulated animal reconstruction published at CVPR'24 [11] <a href="#">Paper</a> on image to 3D scene synthesis published at CVPR'24 [10] <a href="#">Paper</a> on 3D-aware image alignment published at ECCV'24 [12] Supervisor: Prof. Shangzhe Wu, Prof. Jiajun Wu.
2021 - 2023	Master Student at <b>APRIL Lab, Zhejiang University</b> , Hangzhou, China. <a href="#">Paper</a> on implicit compositional reconstruction published at ICCV'23 [9] <a href="#">Paper</a> on implicit video representation published at ECCV'22 [5] Supervisor: Prof. Yiyi Liao, Prof. Yong Liu.
2020 - 2021	Research Intern at <b>Foundamental Vision Group, SenseTime</b> , Beijing, China. <a href="#">Paper</a> on optimal detection loss function published at NeurIPS'21 [1] Supervisor: Dr. Xizhou Zhu, Prof. Jifeng Dai.
2020	Remote Research Intern at <b>CCVL, Johns Hopkins University</b> , Baltimore, USA. <a href="#">Paper</a> on unsupervised segmentation benchmark published at CVPR'22 [4] Supervisor: Dr. Weichao Qiu, Dr. Qing Liu, Prof. Alan Yuille.

## PUBLICATION

\*indicates equal contributions, †indicates equal advising.

- [13] The Scene Language: Representing Scenes with Programs, Words, and Embeddings, in **arXiv**, 2024  
Yunzhi Zhang, **Zizhang Li**, Matt Zhou, Shangzhe Wu, Jiajun Wu
- [12] 3D Congealing: 3D-Aware Image Alignment in the Wild, in **ECCV**, 2024  
Yunzhi Zhang, **Zizhang Li**, Amit Raj, Andreas Engelhardt, Yuanzhen Li, Tingbo Hou, Jiajun Wu, Varun Jampani
- [11] Learning the 3D Fauna of the Web, in **CVPR**, 2024  
**Zizhang Li**\*, Dor Litva\*, Ruining Li, Yunzhi Zhang, Tomas Jakab, Christian Rupprecht, Shangzhe Wu†, Andrea Vedaldi†, Jiajun Wu†
- [10] ZeroNVS: Zero-Shot 360-Degree View Synthesis from a Single Real Image, in **CVPR**, 2024  
Kyle Sargent, **Zizhang Li**, Tanmay Shah, Charles Herrmann, Hong-Xing Yu, Yunzhi Zhang, Eric Ryan Chan, Dmitry Lagun, Li Fei-Fei, Deqing Sun, Jiajun Wu
- [9] RICO: Regularizing the Unobservable for Indoor Compositional Reconstruction, in **ICCV**, 2023  
**Zizhang Li**, Xiaoyang Lyu, Yuanyuan Ding, Mengmeng Wang, Yiyi Liao†, Yong Liu†

- [8] Learning a Room with the Occ-SDF Hybrid: Signed Distance Function Mingled with Occupancy Aids Scene Representation, in **ICCV**, 2023  
Xiaoyang Lyu, Peng Dai, **Zizhang Li**, Dongyu Yan, Yi Lin, Yifan Peng, Xiaojuan Qi
- [7] A Joint Modeling of Vision-Language-Action for Target-oriented Grasping in Clutter, in **ICRA**, 2023  
Kechun Xu, Shuqi Zhao, Zhongxiang Zhou, **Zizhang Li**, Huaijin Pi, Yifeng Zhu, Yue Wang, Rong Xiong
- [6] Failure-aware Policy Learning for Self-assessable Robotics Tasks, in **ICRA**, 2023  
Kechun Xu, Runjian Chen, Shuqi Zhao, **Zizhang Li**, Hongxiang Yu, Ci Chen, Yue Wang, Rong Xiong
- [5] E-NeRV: Expedite Neural Video Representation with Disentangled Spatial-Temporal Context, in **ECCV**, 2022  
**Zizhang Li**, Mengmeng Wang, Huaijin Pi, Kechun Xu, Jianbiao Mei, Yong Liu
- [4] Learning Part Segmentation through Unsupervised Domain Adaptation from Synthetic Vehicles, in **CVPR**, 2022, oral  
Qing Liu, Adam Kortylewski, Zhishuai Zhang, **Zizhang Li**, Mengqi Guo, Qihao Liu, Xiaoding Yuan, Jiteng Mu, Weichao Qiu, Alan Yuille
- [3] MaLL: A Unified Mask-Image-Language Trimodal Network for Referring Image Segmentation, in **arXiv**, 2021  
**Zizhang Li\***, Mengmeng Wang\*, Jianbiao Mei, Yong Liu
- [2] Searching for trionet: Combining convolution with local and global self-attention, in **BMVC**, 2021  
Huaijin Pi, Huiyu Wang, Yingwei Li, **Zizhang Li**, Alan Yuille
- [1] Searching parameterized AP loss for object detection, in **NeurIPS**, 2021  
Tao Chenxin\*, **Zizhang Li\***, Xizhou Zhu, Gao Huang, Yong Liu, Jifeng Dai

## AWARDS

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2024	Stanford Graduate Fellowship
2024	Zhejiang University Outstanding Graduate
2023	Zhejiang University Award of Honor for Graduate
2022	Zhejiang University Award of Honor for Graduate
2021	Zhejiang University Outstanding Graduate

## INVITED TALKS

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### Learning the 3D Fauna of the Web

2024	CCVL, Johns Hopkins University
2023	New York City Vision Workshop, Cornell Tech

## ACADEMIC SERVICES

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### Technical Chair

3DV2025

### Reviewer

CVPR, ICCV, ECCV, 3DV, NeurIPS, ICLR, ICML, AAAI, BMVC, CAI

## SKILLS

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LANGUAGE: MANDARIN, ENGLISH

PROGRAMMING: PYTHON, MATLAB, PYTORCH, GIT, BLENDER