

Ziyang Leng

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EDUCATION BACKGROUND

University of California, Los Angeles (UCLA)
Master of Science in Computer Science (in progress)
GPA: 4.0/4.0

Los Angeles, CA
Sep. 2024 - Jun. 2026

University of California, Berkeley
International Study Program

Berkeley, CA
Jan. 2023 - May 2023

GPA: 4.0/4.0, Core Courses: *Deep Neutral Networks* (A), *Introduction to Machine Learning* (A+)

Southern University of Science and Technology (SUSTech)
Bachelor of Engineering in Computer Science and Technology
GPA: 3.89/4.0, Rank: 4/223

Shenzhen, China
Sep. 2020 - Jul. 2024

PUBLICATION

Sicheng Mo*, **Ziyang Leng***, Leon Liu, Weizhen Wang, Honglin He, Bolei Zhou. "Dreamland: Controllable World Creation with Simulator and Generative Models." In submission.

Ziyang Leng, Jiawei Yang, Wenlong Yi, Bolei Zhou. "Occupancy Learning with Spatiotemporal Memory." *International Conference on Computer Vision*, 2025.

Ziyang Leng, Jiawei Yang, Zhicheng Ren, Bolei Zhou. "BEVCon: Advancing Bird's Eye View Perception with Contrastive Learning." *IEEE Robotics and Automation Letters (RAL)*, 2025.

RESEARCH & PROJECT EXPERIENCE

Trajectory Simulation

June. 2025 - present
NEC Labs America

Enabling **human-like trajectory simulation** with various driving profiles.

Controllable Scene Generation for Driving Scene

Jan. 2025 - present
Prof. Bolei Zhou's Lab at UCLA

Develop a **controllable generation pipeline for driving scenarios** based on simulator conditions.

Perception and Representation Learning for Autonomous Driving

May 2023 - Dec. 2024
Prof. Bolei Zhou's Lab at UCLA

Project 1: Introduced a new **temporal modeling for 3D occupancy representation** and scene-level representation learning framework, achieving SOTA performance on occupancy prediction with notable efficiency.

Project 2: Enhanced **BEV perception with representation learning** by incorporating contrastive learning, yielding better downstream detection performance.

Domain Adaptation for 3D Object Detection in Autonomous Driving

Jan. 2022 - Jun. 2024
Prof. Qi Hao's Lab at SUSTech

Project 1: **Sim-to-Real unsupervised domain adaptation** for 3D detection

Project 2: Weakly-supervised **domain adaptation framework for multi-view 3D detection**

*equal contribution

HONOR & AWARD

SUSTech Outstanding Teaching Assistant	Jan. 2024
3 rd Prize, SUSTech Outstanding Student Scholarship	Oct. 2023
2 nd Prize, SUSTech Outstanding Student Scholarship	Oct. 2022
SUSTech Outstanding Teaching Assistant	Jun. 2022
1 st Prize, SUSTech Outstanding Student Scholarship	Oct. 2021
3 rd Prize, SUSTech Outstanding Freshman Scholarship	Sep. 2020

SKILLS

Coding	Python, PyTorch, Java, C/C++, SQL, Verilog
Computer Vision	Generative Models, Perception, Representation Learning, Domain Adaptation

EXTRACURRICULAR ACTIVITY

Graduate Student Researcher, Prof. Bolei Zhou’s Lab at UCLA **Sep. 2024 - present**

- Serve as Graduate Student Researcher of Prof. Zhou’s Lab at UCLA (24 Fall, 25 Winter, 25 Spring, 25 Fall).

Teaching Assistant, CSE Department, SUSTech **2021 - 2024**

- Served as Teaching Assistant for courses including *Principles of Database Systems* (21 Fall, 22 Spring, 22 Fall, 23 Fall), *C/C++ Program Design* (22 Fall, 23 Fall), *Computer Networks* (23 Fall), and *Introduction to Java Programming* (23 Fall).