

Zhenxin Li

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🌐 <https://zhenxinli.net/>

EDUCATION

► **Fudan University, Shanghai, China**

Sept. 2023 – Jun. 2026 (expected)

M.S. in Computer Science

Advisor: **Prof. Zuxuan Wu**

► **Fudan University, Shanghai, China**

Sept. 2019 - Jun. 2023

B.S. in Software Engineering

GPA: 3.75 / 4.00, Rank: 1 / 96

RESEARCH EXPERIENCE AND AFFILIATIONS

► **NVIDIA**

Mar. 2024 - Current

Research Intern, Autonomous Vehicle Applied Research Group

Mentors: **Dr. Shiyi Lan, Dr. Zhiding Yu, and Dr. Jose M. Alvarez**

- Proposed an end-to-end planner tailored for closed-loop driving (ICCV 25) and a planner trained without any human demonstrations (arXiv Preprint).
- Led the development of the end-to-end planner **GTRS**. (Winner at CVPR-25 Autonomous Grand Challenge, End-to-end Driving, GTC Keynote)
- Led the development of a community-recognized neural end-to-end planner **Hydra-MDP**. (Winner at CVPR-24 Autonomous Grand Challenge, video)
- Contributed to two papers accepted at AAAI, IROS.

► **Fudan University**

Sept. 2022 - Current

Researcher, Fudan Vision and Learning Laboratory

Advisor: **Prof. Zuxuan Wu**

- Worked on a survey on deepfake and tampering detection. (Proc. IEEE)
- Proposed a visual-based 3D object detection algorithm for autonomous driving. (CVPR 24)

AWARDS

- Runner-up and Innovation Award, **ICCV-25 Driving Simulation from Real-World Data, Closed-Loop Driving in Photorealistic Simulation**.
- Winner, **CVPR-25 Autonomous Grand Challenge, End-to-end Driving**.
- Winner and Innovation Award, **CVPR-24 Autonomous Grand Challenge, End-to-end Driving**.

HONORS

- The First Prize for Master's Excellence Scholarship of Fudan University. 2024, 2025
- Outstanding Bachelor's Graduate of Fudan University. 2023
- The First Prize for Undergraduate Excellence Scholarship of Fudan University 2022
- The National First Prize of China Undergraduate Mathematical Contest in Modeling. 2021

PUBLICATIONS AND PREPRINTS

DriveCritic: Towards Context-Aware, Human-Aligned Evaluation for Autonomous Driving with Vision-Language Models. [\[pdf\]](#)

Jingyu Song, Zhenxin Li, Shiyi Lan, Xinglong Sun, Nadine Chang, Maying Shen, Joshua Chen, Katherine A. Skinner, Jose M. Alvarez

International Conference on Robotics and Automation (**ICRA**), 2026.

DriveSuprim: Towards Precise Trajectory Selection for End-to-End Planning. [\[pdf\]](#)

Wenhai Yao, Zhenxin Li, Shiyi Lan, Zi Wang, Xinglong Sun, Jose M Alvarez, Zuxuan Wu

The AAAI Conference on Artificial Intelligence (**AAAI**), 2026.

ZTRS: Zero-Imitation End-to-end Autonomous Driving with Trajectory Scoring. [\[pdf\]](#) [\[code\]](#)

Zhenxin Li, Wenhai Yao, Zi Wang, Xinglong Sun, Joshua Chen, Nadine Chang, Maying Shen, Jingyu Song, Zuxuan Wu,

Shiyi Lan, Jose M. Alvarez

arXiv Preprint, 2025.

Generalized Trajectory Scoring for End-to-end Multimodal Planning. [\[pdf\]](#) [\[code\]](#)

Zhenxin Li, Wenhai Yao, Zi Wang, Xinglong Sun, Joshua Chen, Nadine Chang, Maying Shen, Zuxuan Wu, Shiyi Lan, Jose M. Alvarez

Technical Report for the 1st place solution of End-to-end Driving at Scale at the CVPR 2025 Autonomous Grand Challenge.

Hydra-NeXt: Robust Closed-Loop Driving with Open-Loop Training. [\[pdf\]](#) [\[code\]](#)

Zhenxin Li, Shihao Wang, Shiyi Lan, Zhiding Yu, Zuxuan Wu, Jose M. Alvarez

International Conference on Computer Vision (**ICCV**), 2025.

Fighting malicious media data: A survey on tampering detection and deepfake detection. [\[pdf\]](#)

Junke Wang, Zhenxin Li, Chao Zhang, Jingjing Chen, Zuxuan Wu, Larry S Davis, Yu-Gang Jiang

Proceedings of the IEEE (**Proc. IEEE**), 2025.

Enhancing autonomous driving safety with collision scenario integration. [\[pdf\]](#)

Zi Wang, Shiyi Lan, Xinglong Sun, Nadine Chang, Zhenxin Li, Zhiding Yu, Jose M Alvarez

International Conference on Intelligent Robots and Systems (**IROS**), 2025.

Hydra-MDP: End-to-end Multimodal Planning with Multi-target Hydra-Distillation. [\[pdf\]](#) [\[code\]](#)

Zhenxin Li, Kailin Li, Shihao Wang, Shiyi Lan, Zhiding Yu, Yishen Ji, Zhiqi Li, Ziyue Zhu, Jan Kautz, Zuxuan Wu, Yu-Gang Jiang, Jose M. Alvarez

Technical Report for the 1st place solution of End-to-end Driving at Scale at the CVPR 2024 Autonomous Grand Challenge.

BEVNeXt: Reviving Dense BEV Frameworks for 3D Object Detection. [\[pdf\]](#) [\[code\]](#)

Zhenxin Li, Shiyi Lan, Jose M. Alvarez, Zuxuan Wu

Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024.

SKILLS

- ▶ **Programming Languages** Python, Java, C/C++, TypeScript
- ▶ **Tools** PyTorch, Git, LaTeX, Springboot, Angular
- ▶ **Languages** English (TOEFL iBT: 109 / 120)

ACADEMIC SERVICES

- ▶ Conference reviewer for NeurIPS, ICLR, IROS.

- ▶ Journal reviewer for TPAMI.