# Zhenxin Li

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## 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

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| ▶ The First Prize for Masters 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

**DriveSuprim: Towards Precise Trajectory Selection for End-to-End Planning.** [pdf]

Wenhao 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**, Wenhao 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**, Wenhao 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.