

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

- 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

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|--------------------------------|--|
| ► 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.