

Xinhao Liu

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Education

2023 – present **Ph.D. in Computer Science**, New York University.

2023 **B.Sc. in Mathematics**, New York University.
Major: Honors Mathematics | Data Science

Appointment

2021 – present **Research Assistant**, AI4CE Lab, New York University.

Research Publications

Preprint

- 1 Yiming Li*, Sihang Li*, **Xinhao Liu***, Moonjun Gong*, Kenan Li, Nuo Chen, Zijun Wang, Zhiheng Li, Tao Jiang, Fisher Yu, Yue Wang, Hang Zhao, Zhiding Yu, and Chen Feng, *Sscbench: Monocular 3d semantic scene completion benchmark in street views*, 2023. arXiv: 2306.09001.
- 2 **Xinhao Liu***, Moonjun Gong*, Qi Fang, Haoyu Xie, Yiming Li, Hang Zhao, and Chen Feng, *Lidar-based 4d occupancy completion and forecasting*, 2023. arXiv: 2310.11239.
- 3 Chao Chen, **Xinhao Liu**, Xuchu Xu, Yiming Li, Li Ding, Ruoyu Wang, and Chen Feng, *Self-supervised visual place recognition by mining temporal and feature neighborhoods*, 2022. arXiv: 2208.09315.

Conference Proceedings

- 1 Chao Chen*, **Xinhao Liu***, Yiming Li, Li Ding, and Chen Feng, “Deepmapping2: Self-supervised large-scale lidar map optimization,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*, 2023, pp. 9306–9316.

Honors & Awards

2023 **University Honors Scholar**, New York University, New York, NY.

Travel Grant for CVPR, School of Computer Science, Data Science and Engineering, NYU Shanghai, Shanghai, China. (\$2,000 grant)

Student Travel Grant for Conference, Department of Mathematics, NYU Shanghai, Shanghai, China. (\$2,000 grant)

2022 – 2023 **Dean’s List of Academic Year**, NYU Shanghai, Shanghai, China.

2022 **UGSRP Research Fund**, NYU Tandon, New York, NY. (\$5,000 fund)

Honors & Awards (continued)

2020 **Best Research Project**, Undergraduate Research Symposium, NYU Shanghai, Shanghai, China. (2 out of 30+ projects)

Dean's Undergraduate Research Fund, NYU Shanghai, Shanghai, China. (¥7,000 fund)

Professional Services

2023 **Reviewer**, IEEE International Conference on Robotics and Automation (ICRA).

Technical Skills

Programming	Python, Matlab, C#, JavaScript, Shell
Library	PyTorch, PyTorch Geometric, OpenCV, Open3D
Text Editing	LaTeX, Notion, MS Office
Multimedia Editing	Adobe Lightroom, Adobe Premier Pro, Adobe Illustrator
OS	MacOS, MS Windows, Linux