Bangjun Wang

https://wbjsamuel.github.io

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Education

- **Shanghai Jiao Tong University** — Shanghai, China
  B.S in Artificial Intelligence; Guozhi Class; GPA: 3.56 — *Sep. 2021 – Current*
- **TOEFL**: 106(R:29, L:28, S:22, W:27)

Experience

- **PKU-Agibot Lab** — Beijing, China
  Research Intern — *March 2024 - Present*
  - **Robotics, Robot Learning**: Interaction-oriented representation learning for robot manipulation.
- **OpenDriveLab** — Shanghai, China
  Research Intern — *March 2023 - Present*
  - **Robotics, Robot Learning**: Interaction-oriented representation learning for robot manipulation.
  - **End-to-End Autonomous Driving**: propose a new map learning paradigm that seamlessly incorporates both map geometry and topology information for online mapping.
  - **OpenLane-V2**: The World's First Perception and Reasoning Benchmark for Scene Structure in Autonomous Driving. CVPR 2023 AD Challenge, Track 1: OpenLane Topology
- **ReThinkLab, SJTU** — Shanghai, China
  Research Undergrad. — *Nov 2022 - May 2023*
  - **Image Matching and Retrieval**: Supervised by Prof.Junchi Yan, I worked on the topic of image retrieval, looking for improvement on DOLG and DELG, and introduced related methods to Graph Matching.

Publications

- **MPI**: Learning Manipulation by Predicting Interaction
  Jia Zeng, Qingwen Bu*, **Bangjun Wang***, Wenke Xia*, Li Chen, Hao Dong, Haoming Song, Dong Wang, Di Hu, Ping Luo, Heming Cui, Bin Zhao, Xuelong Li, Yu Qiao, Hongyang Li*
  Submitted to RSS 2024.
- **LaneSegNet**: Map Learning with Lane Segment Perception for Autonomous Driving
  Tianyu Li, Peijin Jia*, **Bangjun Wang***, Li Chen, Kun Jiang, Junchi Yan, Hongyang Li*
  ICLR 2024. **Paper**. **Code**
- **OpenLane-V2**: A Topology Reasoning Benchmark for Scene Understanding in Autonomous Driving
  *H.Wang, T.Li, Y.Li, L.Chen, C.Sima, Z.Liu, **Bangjun Wang**, P.Jia, Y.Wang, S.Jiang, F.Wen, H.Xu, Ping Luo, Junchi Yan, Wei Zhang, Hongyang Li*
  NeurIPS 2023. **Paper**. **Project**

Professional Service

- **Reviewer**: CVPR 2024
- **Session Secretary**: RACV 2024 held by CCF-CV

Programming Skills

- **Languages**: Python, C++, CSS, HTML, Node.js, LaTeX, Markdown
- **Framework**: PyTorch, MMCV, MMDET, Hydra, W&B, Anaconda
- **Platform**: Robohive, Issac Sim/Gym