Bangjun Wang

Homepage: https://bangjunwang.com

Email : wangbangjun@sjtu.edu.cn
Mobile : (+86)13524252786

Education

- **Shanghai Jiao Tong University** — Shanghai, China
  B.S in Artificial Intelligence; Guozhi Class; GPA: 3.62 — *Sep. 2021 – Current*
- **TOEFL**: 106 (R:29, L:28, S:22, W:27)

Publications

- **MPI**: Learning Manipulation by Predicting Interaction **(Co-First Author)**
  J.Zeng, Q.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*
  RSS 2024. **Paper**. **Code**
- **LaneSegNet**: Map Learning with Lane Segment Perception for Autonomous Driving **(Co-First Author)**
  T.Li, P.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**. **Code**

Experience

- **University of Southern California, Visiting Student** — Los Angeles, CA
  Supervised by Prof.Yue Wang — *September 2024 - Present*
  - **Robotics**: A Unified Benchmark for Scalable and Generalizable Vision-Language Robotic Manipulation.
- **AGIBOT, PKU-Agibot Lab, PKU, Research Intern** — Beijing, China
  Supervised by Prof.Hao Dong — *March 2024 - August 2024*
  - **Robotics, Robot Learning**: Vision-Language-Action(VLA) framework for humanoid manipulation.
- **OpenDriveLab, HKU, Research Intern** — Shanghai, China
  Supervised by Prof.Hongyang Li — *March 2023 - June 2024*
  - **Robotics, Robot Learning**: MPI is an interaction-oriented representation learning method for robot manipulation. I've accumulated much experience in both real-world and simulation experiments.
  - **End-to-End Autonomous Driving**: We propose a map learning paradigm and corresponding lane attention mechanism that can seamlessly incorporate both map geometry and topology information for online mapping. *CVPR 2024 Autonomous Grand Challenge, Track Mapless Driving*
  - **OpenLane-V2**: The World's First Perception and Reasoning Benchmark for Scene Structure in Autonomous Driving. *CVPR 2023 AD Challenge, Track 1: OpenLane Topology*

Professional Service

- **Reviewer**: CVPR 2024, ACMMM 2024, NeurIPS 2024, AAAI 2025, ICLR 2025, AISTATS 2025
- **Co-organizer**: FM4AS at CVPR 2024, E2EAD at CVPR 2023

Programming Skills

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