Junbo Wang

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🏠 https://dadadadawjb.github.io

🎓 Education

Shanghai Jiao Tong University — Shanghai, China
Master in Computer Science and Technology — Sept. 2023 – Mar. 2026 (expected)
- Supervisor: Prof. Cewu Lu
- GPA 3.97/4.0
- Selected Courses: Machine Learning (A+), Data Mining (A+), Reinforcement Learning (A+)

Shanghai Jiao Tong University — Shanghai, China
B. Eng. in Computer Science and Technology — Sept. 2019 – Jun. 2023
- GPA 92.19/100 (or 4.00/4.3), Rank 8/119
- Selected Courses: Calculus (97/100), Linear Algebra (94/100), Probability and Statistics (94/100)

📍 Experiences

ByteDance AI Lab — Shanghai, China
Research Intern in SDF2NeRF — Jul. 2022 – Jan. 2023
- Implicit Geometry Prior-Guided Sampling for Indoor Scene Rendering

📖 Publications

🎓 Google Scholar t0c9gKYAAAAJ

RPMArt: Towards Robust Perception and Manipulation for Articulated Objects
Junbo Wang, Wenhai Liu, Qiaojun Yu, Yang You, Liu Liu, Weiming Wang, Cewu Lu
IEEE/RSJ International Conference on Intelligent Robots and Systems, 2024

ManiPose: A Comprehensive Benchmark for Pose-aware Object Manipulation in Robotics
Qiaojun Yu*, Ce Hao*, **Junbo Wang**, Wenhai Liu, Liu Liu, Yao Mu, Yang You, Hengxu Yan, Cewu Lu
Arxiv, 2024

GAMMA: Generalizable Articulation Modeling and Manipulation for Articulated Objects
Qiaojun Yu, **Junbo Wang**, Wenhai Liu, Ce Hao, Liu Liu, Lin Shao, Weiming Wang, Cewu Lu
IEEE International Conference on Robotics and Automation, 2024

RH20T: A Comprehensive Robotic Dataset for Learning Diverse Skills in One-Shot
Hao-Shu Fang, Hongjie Fang, Zhenyu Tang, Jirong Liu, Chenxi Wang, **Junbo Wang**, Haoyi Zhu, Cewu Lu
IEEE International Conference on Robotics and Automation, 2024

</> Projects

🐙 GitHub dadadadawjb

A-PIE: Visual concepts understanding and embodied manipulation for articulated objects (SJTU-CS best undergraduate thesis)
TrainAlarm: Full stack + IoT + MCU application for alerting railway workers (private for patent)
CLPDetector: Color-shape and shape-color two pipelines based Chinese license plates detector
SimPL: Interpreter for a simplified functional and imperative programming language
NeRFHowTo: Neural Radiance Fields with clean PyTorch re-implementation
RLDemo: DQN with D3QN and DDPG with TD3 PyTorch re-implementation on Atari and MuJoCo
RayTracerHowTo: Handwritten Whitted-style Ray Tracer and Path Tracer with clean C++ implementation
RasterizerHowTo: Handwritten Rasterizer with clean C++ implementation

🏅 Honors

CCF Elite Collegiate Award (*China Computer Federation, 1%*)	Oct. 2023
Shaoqiu Scholarship (*Shanghai Jiao Tong University, 1%*)	Nov. 2021
National Scholarship (*Ministry of Education of the People's Republic of China, 1%*)	Dec. 2020
Merit Student Award (*Shanghai Jiao Tong University, 5%*)	Nov. 2020
Undergraduate Class A Scholarship (*Shanghai Jiao Tong University, 1%*)	Nov. 2020

♥ Services

- Reviewer: NeurIPS Robot Learning Workshop
- Committee Member: SJTU CCF Student Chapter
- Teaching Assistant: SJTU CS1501 Programming
- Volunteer: CEAI, Shanghai Half Marathon

👍 Skills

- Programming: CSP 275
- English: CET-4 607, CET-6 545
- Math: CMC the first prize, CUMCM the second prize