Junqi Jing

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Education

Harbin Institute of Technology, BE in Software Engineering — Aug. 2023 – Jun. 2027

- GPA: 84/100
- **Technical Skills** Python; C/C++; Pytorch; Linux; Git

Research Experience

Visiting student, Westlake University, Milab **Advisor:** Donglin Wang — July. 2024 – Sep. 2024

- As a Visiting Student, I participated in an ICLR project focused on experimental validation and idea realization.
- Key contributions include reproducing the project in the Mujoco environment, replacing the reward function with CLIP, calculating the cosine similarity between the image and the text features, and conducting subsequent experiments.(Page:https://milab.westlake.edu.cn/)

Exchange student, POSTECH(Coming–), MLVlab **Advisor:** Kwang In Kim — Sep. 2025 – Dec. 2025

- As an exchange student of the university, I participated in the official "C+R" exchange program, which allows me to participate in the university's research while taking courses. I am very honored to have received the recommendation of Prof. Kwang in kim, and during the exchange period, I will continue to conduct embodied ai and CV-related research in Prof. Kwang in kim's team.(Page:https://sites.google.com/view/mlvlab/home)

Publications

Stability Analysis of Coupled Systems Described by Stochastic Functional Differential Equations with Infinite Delay — JCR II (under review) Feb. 2024 – Aug. 2024

Junqi Li, ***Junqi Jing***, Wenxue Li

Main Work: In this paper, we study the stability of coupled systems described by stochastic generalized differential equations with infinite delay. In this work, I was in charge of deriving and justifying formulas, performing MATLAB simulations of numerical cases, and writing the main body of the thesis.

MASKED TEMPORAL INTERPOLATION DIFFUSION FOR PROCEDURE PLANNING IN INSTRUCTIONAL VIDEOS — **ICLR(Accept) Score:8 6 6 Top:7.3 percent**

Yufan Zhou, Lingshuai Lin, ***Junqi Jing***, et.al

Main Work: As a co-author, I proposed and implemented part of the idea, conducted experimental validation, and wrote the main body of the paper. Specifically, I contributed to the design and implementation of the Masked Temporal Interpolated Diffusion (MTID) model, including the latent spatial-temporal logical interpolation module and the action-aware mask projection mechanism, and validated the approach through extensive experiments. Page:**MTID**

Physical engine of Embodied LLM(main about Graph Neural Network and Dynamic 3DGS Techniques) — Ready for AAAI(**Finished**) Apr. 2024 – Dec. 2025

Junsong Wang, ***Junqi Jing***, Zhaobo Qi, et.al

Main Work: In this article, I was responsible for constructing Unity-based physics simulation data, modifying the graph neural network (GNN) for the physics engine, conducting experimental validation, and contributing to the paper writing. Additionally, I participated in the creation of the first dataset for embodied physics simulation in the graph paradigm, which models learnable physical quantities for more realistic real-world object interactions.

RL-Based Diffusion policy VLA:Automated Robot Policy Learning from Generated Videos — In Preparation Jan. 2025 – Now

Junqi Jing, Zhaobo Qi, et.al

Main Work: In this article, I was responsible for leading the whole project, I presented all the ideas, and currently, based on the Seer VLA model, we are further improving the processing capability of the VLA for long time-series tasks as well as complex tasks based on RL, and we are going to propose a new paradigm for diffusion policy.

Projects

Agent for tourism planning assistant based on LLM TPA-Travelplanningassistant

- **Main Work**: **As the main project leader and developer,** I coordinated the overall project planning, implemented and improved the core functionalities of the Agent, and developed advanced features such as personalized travel plan recommendations, weather queries, and tourist attraction suggestions. Additionally, data sets were curated and cleaned from sources such as Kaggle, travel agency information, and global celebrity attractions, and multiple APIs were integrated to enhance the model's capability in addressing travel-related queries.
- **Award:** Won the third prize (top 6) in the Ali Baba LLM Technology and Industry Trends College Tour —

Award

- **Second Prize, Olympiad Mathematics Competition**
- Second Prize, **National College Student Mathematical Modeling Contest**
- Certified Large Model Application Developer,**China Software Industry Association (CSTP)**
- Third Prize, **Ali AI University Visiting – Large Model Technology & Industry Trends** (Baidu Qwen, Top-6 Team, 2024)
- **Bronze Medal,** ***Freshman ACM Programming Contest*** **(2023)**
- "Star of Computing" – Outstanding Student Leader (2023 – 2024)
- "Star of Computing" – Individual All-Round Excellence Award (2023 – 2024)
- Outstanding Student Leader (2023 – 2024)
- All-Round Excellence Award (2023 – 2024)
- Student Work Excellence Scholarship (2023 – 2024)
- Second-Class Scholarship (2023 – 2024)
- Third-Class Scholarship (2023 – 2024)
- Second Prize, *Summer Practical training* (University Level, 2024)
- Excellent Individual, Practical training (Summer & Winter 2024)
- Class Representative – Led the only "Zero-Failure Class" in the grade (The only class in the department)
- Outstanding League Member, University Youth League (2023 – 2024)
- Excellent Participant, Guangxi Youth League School
- Best-Officer, Project Management Department, Sci-Tech Innovation Center, School of Computer Science & Technology
- Second Prize, *National College Student Career Planning Competition*
- **More than 20 awards in total**