Junxuan Liang

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Education

BS **Shanghai Jiao Tong University(SJTU)**, Computer Science, Zhiyuan Honors Program — Sept 2022 – Present

- **Core Courses**: Machine Learning, Modern Opertaing System, Computational Theory

Publications

- Xinpeng Liu, **Junxuan Liang**, Zili Lin, Haowen Hou, Yong-Lu Li*, Cewu Lu* (*=corresponding authors). "ImDy: Human Inverse Dynamics from Imitated Observations." arXiv preprint. Project URL: https://foruck.github.io/ImDy/ (Under review as a conference paper at ICLR 2025)
- Xinpeng Liu, **Junxuan Liang**, Chenshuo Zhang, Zixuan Cai, Cewu Lu*, Yong-Lu Li*(*=corresponding authors). "Homogeneous Dynamics Space for Heterogeneous Humans." (Under review as a conference paper at CVPR 2025)
- Zixuan Chen, Jiaxin Li, **Junxuan Liang**, Liming Tan, Yejie Guo, Cewu Lu*, Yong-Lu Li*(*=corresponding authors). "M^3-VOS: Multi-Phase, Multi-Transition, and Multi-Scenery Video Object Segmentation." (Under review as a conference paper at CVPR 2025)

Experience

Machine Vision and Intelligence Group (MVIG), Research Assistant — SJTU, Shanghai, China — June 2022 – Present

- Exploited the recently progressive human motion imitation algorithms to learn human inverse dynamics in a data-driven manner
- Trained a data-driven human inverse dynamics solver ImDyS(olver) in a fully supervised manner, which conducts ID and ground reaction force estimation simultaneously
- Supervised by Prof. Cewu Lu and Prof. Yong-Lu Li.

Department Of Electrical Engineering, Research Assistant — SJTU, Shanghai, China — Feb 2022 – June 2022

- Proposed a distributed photovoltaic state monitoring model based on sparse coding, and distributed robust logistic regression algorithms

Awards

- Zhiyuan Honors Program Scholarship, SJTU, Shanghai, China — 2023
- Third-Class Scholarship, SJTU, Shanghai, China — 2024
- Merit Student (top 3%), SJTU, Shanghai, China — 2024
- Meritorious Winner in Mathematical Contest In Modelling (Top 6.6%), America — 2024
- National Special Award in Electronic&Electrical Engineering Innovation Competition, China — 2024

Skills and interests

Languages: Native Cantonese & Mandarin, Fluent English (CET6 528)

Programming Languages: Python(most proficient), C/C++, etc.