

Junxuan Liang

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Education

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

- GPA: 3.54/4.3
- A member of The Zhiyuan Honors Program
- **Coursework:** Machine Learning, Modern Operating System, Computational Theory

Experience

Machine Vision and Intelligence Group (MVG), 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. Yong-Lu Li and Prof. Cewu Lu.

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

- Proposed a distributed photovoltaic state monitoring model combining data processing algorithms, self-learning algorithms based on sparse coding, and distributed robust logistic regression algorithms
- Supervised by Prof. Xiaoyuan Xu

Publications

Physics in human motion

- 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/>

Awards

Scholarships

- The Zhiyuan Honors Program Scholarship, SJTU, Shanghai, China 2023
- The Third-Class Scholarship, SJTU, Shanghai, China 2024

Honorary Titles

- Merit Student(top 5%), SJTU, Shanghai, China 2024

Competitions

- Meritorious Winner in Mathematical Contest In Modelling(Top 6.6%), America 2024
- the national special prize in the software track of [Electronic&Electrical Engineering Innovation Competition.](#), China 2024

Skills and interests

Languages: Native Chinese, Fluent English(CET6 528)

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