Junxuan Liang

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🔗 https://hitefork.github.io ⌗ hitefork

Education

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

- GPA: 3.9/4.0
- A member of The Zhiyuan Honors Program
- **Coursework:** Machine Learning, Modern Opertaing System, Computational Theory

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. 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
- Won the national special prize in the software track of Electronic&Electrical Engineering Innovation Competition.

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

Skills and interests

Languages: Native Chinese, Fluent English(CET6 528)

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

Interests: Study the history and ideology of East Asia and Western Europe