

# Junxuan Liang

📍 Shanghai, China    ✉ whitefork@sjtu.edu.cn    ✉ hitefork@gmail.com

🔗 <https://hitefork.github.io>    🌐 hitefork

## Education

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**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

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**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

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### 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

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### 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 Award in Electronic&Electrical Engineering Innovation Competition, China    2024

## Skills and interests

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**Languages:** Native Chinese, Fluent English(CET6 528)

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