

# TAIRAN HE

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## EDUCATION

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**Shanghai Jiao Tong University (SJTU)**

*Sep. 2018 - Present*

B.E. in Computer Science and Technology (IEEE Honored Class)

- Overall GPA: 86.5/100

- Major GPA: 89.8/100

## RESEARCH EXPERIENCE

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**Apex Data & Knowledge Management Lab, SJTU**

*Jun. 2019 - Present*

- Research Interest: Reinforcement Learning, Imitation Learning, Unsupervised Learning

- Advisor: [Weinan Zhang](#)

## PUBLICATIONS / PREPRINTS

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**Energy-Based Imitation Learning**

Minghuan Liu, **Tairan He**, Minkai Xu, Weinan Zhang.

Submitted to AAMAS 2021. [Arxiv Preprint](#).

- EBIL, a two-stage density estimation imitation learning framework.

- In this work, I proposed the idea of using a score matching objective to first estimate the expert energy, which is then used as a fixed reward function for a standard RL algorithm. And I conducted the experiment of empirical analysis and MuJoCo benchmark baselines.

## PROJECTS EXPERIENCE

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Check [my github](#) for more details.

**SJTU Anonymous Forum**

*Feb. 2020 - Jun. 2020*

- A carefree forum platform for SJTU students sharing and talking with anonymous identity.

**Stock Analysis Website (EE208 Ranking 1/140)**

*Sep. 2019 - Jan. 2020*

- A stock portal website that visualizes stock market information and summarizes story news, giving analysis and predictions by unsupervised learning.

**A Mapmatic Academic System (EE201 Ranking 1/143)**

*Feb. 2019 - Jun. 2019*

- A visualized academic system which fully discovered the connection and its evolving feature among researchers and papers in big scholarly data.

## AWARDS & HONORS

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**SJTU Zhiyuan Scholarship (5%)**

*2019*

## SKILLS

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**Machine Learning:** TensorFlow, PyTorch

**Programming Languages:** Python, MATLAB, C / C++, Java, PHP, L<sup>A</sup>T<sub>E</sub>X

**Standard Tests:** CET-6 (533), CET-4 (570)

**Hobbies and Interests:** Basketball, Soccer, Photograph (Check [my video blogs](#) for more!)