

Jiayun WU

Addr.: 9-316 East Main Building, Tsinghua University, Beijing, China, 100084

Cell: (+86)13681894237 Email: wujy22@mails.tsinghua.edu.cn Website: ic-hub.github.io

RESEARCH INTEREST

Machine Learning, Trustworthy AI, Out-of-distribution Generalization, Robustness of ML Algorithms

ACADEMIC EXPERIENCE

9. 2022—Present. **Department of Computer Science and Technology, Tsinghua University (THU)**

- ♦ Master student advised by Prof. Peng Cui

9. 2018–6. 2022 **Department of Computer Science and Technology, Tsinghua University (THU)**

- ♦ Bachelor of Engineering
- ♦ GPA: 3.92/4.0; Ranking: 2nd /224
- ♦ Honors/Awards: Outstanding Graduates of Beijing (2022)
Outstanding Dissertation Award of Tsinghua (2022)
Academic Merit Scholarship (2019, 2020 and 2021)

RESEARCH INTERESTS

Out-of-Distribution Generalization: I am working on machine learning theories and algorithms with robustness against distributional shifts, including Distributionally Robust Optimization (DRO) and invariant learning.

Bioinformatics: I am working on single-cell genomics for a trustworthy and robust algorithm to assist in genetics research. Currently I'm involved in a project with Beijing Genomics institution (BGI).

PUBLICATIONS

- ♦ Jiashuo Liu*, **Jiayun Wu***, Renjie Pi, Renzhe Xu, Xingxuan Zhang, Bo Li and Peng Cui.
[Measure the Predictive Heterogeneity](#)
ICLR 2023, The 11th International Conference on Learning Representations.
- ♦ Jiashuo Liu*, **Jiayun Wu***, Bo Li and Peng Cui.
[Distributionally Robust Optimization with Data Geometry](#)
NeurIPS 2022, In Neural Information Processing Systems. **Spotlight** presentation.
- ♦ Jiashuo Liu, **Jiayun Wu**, Jie Peng, Zheyang Shen, Bo Li, Peng Cui.
[Distributionally Invariant Learning: Rationalization and Practical Algorithms.](#)
Under review.

SELECTED COURSEWORKS & CONTESTS

01.2022	Convex Optimization, Score: A+
12.2021	Quantitative Trading Strategy Challenge of Tsinghua, Prize: Outstanding Winner (1st place)
05.2021	Machine Learning, Score: A
11-12.2020	Artificial Neural Network, Score: A+

HIGHLIGHT OF SKILLS

Programming skills: Proficient in Python and C++, Familiar with Java, Verilog, etc.

Machine learning: Proficient in Pytorch, Sklearn, Familiar with Tensorflow, etc.

Technical skills: Familiar with Linux, Docker, Kubernetes, FPGA, SRAM, etc.

Language skills: TOEFL 108.