Jialong Wu

(+86) 13587027920 | wujialong0229@gmail.com | manchery.github.io | Google Scholar

EDUCATION

Ph.D. in Software Engineering   Aug 2022 – Present
School of Software, Tsinghua University   Beijing, China
- Advisor: Prof. Mingsheng Long
- Research Interests: Reinforcement Learning, World Models, Transfer Learning

Bachelor in Software Engineering   Aug 2018 – June 2022
School of Software, Tsinghua University   Beijing, China
- GPA: 3.98/4.0, Rank: 1/89

Bachelor in Pure and Applied Mathematics (*Second Degree*)   Aug 2019 – June 2022
Department of Mathematical Sciences, Tsinghua University   Beijing, China
- GPA: 3.75/4.0

PUBLICATIONS AND PREPRINTS

Harmony World Models: Boosting Sample Efficiency for Model-based Reinforcement Learning
Haoyu Ma*, **Jialong Wu***, Ningya Feng, Jianmin Wang, Mingsheng Long#. *arXiv preprint*, 2023.

Pre-training Contextualized World Models with In-the-wild Videos for Reinforcement Learning
Jialong Wu*, Haoyu Ma*, Chaoyi Deng, Mingsheng Long#. *NeurIPS, 2023.*

CLIPood: Generalizing CLIP to Out-of-Distributions
Yang Shu*, Xingzhuo Guo*, **Jialong Wu**, Ximei Wang, Jianmin Wang, Mingsheng Long#. *ICML, 2023.*

Supported Policy Optimization for Offline Reinforcement Learning
Jialong Wu, Haixu Wu, Zihan Qiu, Jianmin Wang, Mingsheng Long#. *NeurIPS, 2022.*

Out-of-Dynamics Imitation Learning from Multimodal Demonstrations
Yiwen Qiu, **Jialong Wu**, Zhangjie Cao, Mingsheng Long#. *CoRL, 2022.*

Flowformer: Linearizing Transformers with Conservation Flows
Haixu Wu, **Jialong Wu**, Jiehui Xu, Jianmin Wang, Mingsheng Long#. *ICML, 2022.*

HONORS AND AWARDS

Future Researcher Scholarship   2022
Tsinghua University

Outstanding Graduates (Top 2%)   2022
School of Software/Tsinghua University/Beijing

National Scholarship (Top 1%)   2019 – 2020
Ministry of Education of the People's Republic of China

Comprehensive Excellence Award (Top 10%)   2018 – 2019, 2020 – 2021
Tsinghua University

34th National Olympiad in Informatics (NOI 2017), Silver Medal (81st Place)   July 2017
China Computer Federation (CCF)

ACADEMIC SERVICES

Conference Reviewer

- International Conference on Learning Representations (*ICLR*) 2024
- Conference on Neural Information Processing Systems (*NeurIPS*) 2023
- International Conference on Machine Learning (*ICML*) 2022 – 2023

Teaching Assistant

- Deep Learning, Fall 2023, Tsinghua University. Instructor: Prof. Mingsheng Long.
- Introduction to Algorithms, Spring 2023, Tsinghua University. Instructor: Prof. Bin Wang.
- Machine Learning, Fall 2022, Tsinghua University. Instructor: Prof. Mingsheng Long.
- Introduction to Artificial Intelligence, Spring 2021 – 2022, Tsinghua University. Instructor: Prof. Mingsheng Long.

SELECTED PROJECTS

Awesome Multi-task Learning | *460+ Stars*   Up-to-date

A curated list of datasets, codebases, and papers on Multi-Task Learning (MTL).

ImageLabeler | *C++, Qt* | *70+ Stars, 20+ Forks*   Summer 2019

Image annotation tool, supporting 2D/3D detection/segmentation annotation.

Incremental Decision Tree | *Python (NumPy, Matplotlib, Pandas)*   Fall 2020

Re-implementation of VFDT and EFDT, reproducing paper *Extremely Fast Decision Tree*.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, MATLAB, Java, Javascript, HTML/CSS

Professional Software: Pytorch, NumPy, Git, LaTeX, Vue

Language: China (native), English