

# Jialong Wu

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## EDUCATION

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<b>Ph.D. in Software Engineering</b> School of Software, Tsinghua University • Advisor: <a href="#">Prof. Mingsheng Long</a> • Research Interests: World Models, Reinforcement Learning, Transfer Learning	Aug 2022 – June 2027 ( <i>expected</i> ) Beijing, China
<b>Bachelor in Software Engineering</b> School of Software, Tsinghua University • GPA: 3.98/4.0, Rank: 1/89	Aug 2018 – June 2022 Beijing, China
<b>Bachelor in Pure and Applied Mathematics (Second Degree)</b> Department of Mathematical Sciences, Tsinghua University • GPA: 3.75/4.0	Aug 2019 – June 2022 Beijing, China

## PUBLICATIONS AND PREPRINTS

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<b>CompilerDream: Learning a Compiler World Model for General Code Optimization</b> Chaoyi Deng*, <b>Jialong Wu*</b> , Ningya Feng, Jianmin Wang, Mingsheng Long#. <i>arXiv preprint, 2024.</i>
<b>Long-Sequence Recommendation Models Need Decoupled Embeddings</b> Ningya Feng*, Junwei Pan*, <b>Jialong Wu*</b> , Baixu Chen, Ximei Wang, Qian Li, Xian Hu, Jie Jiang, Mingsheng Long#. <i>arXiv preprint, 2024.</i>
<b>iVideoGPT: Interactive VideoGPTs are Scalable World Models</b> <b>Jialong Wu*</b> , Shaofeng Yin*, Ningya Feng, Xu He, Dong Li, Jianye Hao, Mingsheng Long#. <i>NeurIPS, 2024.</i>
<b>HarmonyDream: Task Harmonization Inside World Models</b> Haoyu Ma*, <b>Jialong Wu*</b> , Ningya Feng, Chenjun Xiao, Dong Li, Jianye Hao, Jianmin Wang, Mingsheng Long#. <i>ICML, 2024.</i>
<b>Pre-training Contextualized World Models with In-the-wild Videos for Reinforcement Learning</b> <b>Jialong Wu*</b> , Haoyu Ma*, Chaoyi Deng, Mingsheng Long#. <i>NeurIPS, 2023.</i>
<b>CLIPood: Generalizing CLIP to Out-of-Distributions</b> Yang Shu*, Xingzhuo Guo*, <b>Jialong Wu</b> , Ximei Wang, Jianmin Wang, Mingsheng Long#. <i>ICML, 2023.</i>
<b>Supported Policy Optimization for Offline Reinforcement Learning</b> <b>Jialong Wu</b> , Haixu Wu, Zihan Qiu, Jianmin Wang, Mingsheng Long#. <i>NeurIPS, 2022.</i>
<b>Out-of-Dynamics Imitation Learning from Multimodal Demonstrations</b> Yiwen Qiu, <b>Jialong Wu</b> , Zhangjie Cao, Mingsheng Long#. <i>CoRL, 2022.</i>
<b>Flowformer: Linearizing Transformers with Conservation Flows</b> Haixu Wu, <b>Jialong Wu</b> , Jiehui Xu, Jianmin Wang, Mingsheng Long#. <i>ICML, 2022.</i>

## HONORS AND AWARDS

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<b>Future Researcher Scholarship</b> Tsinghua University	2022
<b>Outstanding Graduates (Top 2%)</b> School of Software & Tsinghua University & Beijing	2022
<b>National Scholarship (Top 1%)</b> Ministry of Education of the People's Republic of China	2019 – 2020
<b>Comprehensive Excellence Award (Top 10%)</b> Tsinghua University	2019, 2021, 2023
<b>34th National Olympiad in Informatics (NOI 2017), Silver Medal (81st Place)</b> China Computer Federation (CCF)	July 2017

## PROFESSIONAL SERVICES

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### Reviewer | PC Member

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

### 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, 2024, Tsinghua University. Instructor: Prof. Mingsheng Long.

### Student Counselor

- Undergraduate Student Counselor, Dushi College, Tsinghua University, 2024–2027 (*expected*).

## SELECTED PROJECTS

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### Awesome Multi-task Learning | 590+ Stars

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

Up-to-date

### ImageLabeler | C++, Qt | 100+ Stars, 30+ Forks

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

Summer 2019

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

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

Fall 2020

## TECHNICAL SKILLS

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

**Professional Software:** PyTorch, NumPy, Git, LaTeX, Vue

**Language:** China (native), English

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*Last updated: 10/11/2024*