Jinxin Liu

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Education

Zhejiang University 2019.09 - 2024.06
Ph.D., Computer Science Hangzhou, China
★ Zhejiang University & Westlake University Joint Ph.D. Program
★ Advisor: Prof. Donglin Wang

Chongqing University of Posts and Telecommunications 2015.09 - 2019.06
B.Eng., Communications Engineering Chongqing, China
★ Cumulative GPA: 3.8/4.0 Rank: 1/42 (*for four consecutive years*)

Research Interests

★ **Deep RL**: model-free RL; unsupervised RL and skill learning; offline RL; planning and inference.
★ **Core Deep Learning**: distribution shift; robust; self-supervised models; DA/DG.
★ **Large Model**: ...

Selected Publications

[1] **Jinxin L**, Hongyin Z, and Donglin W. [ICLR, 2022]
DARA: Dynamics-Aware Reward Augmentation in Offline Reinforcement Learning. PDF

[2] **Jinxin L**, Donglin W, Qiangxing T, and Zhengyu C. [AAAI, 2022]
Learn Goal-Conditioned Policy with Intrinsic Motivation for Deep Reinforcement Learning. PDF

[3] **Jinxin L**, Hao S, Donglin W, Yachen K, and Qiangxing T. [NeurIPS, 2021]
Unsupervised Domain Adaptation with Dynamics-Aware Rewards in Reinforcement Learning. PDF

[4] Zifeng Z, Kun L, **Jinxin L**, Donglin W, and Yilang G. [ICLR, 2023]
Behavior Proximal Policy Optimization. PDF

[5] Yao L, **Jinxin L**, Zhentao T, Bin W, Jianye H, and Ping L. [ICML, 2023]
ChiPFormer: Transferable Chip Placement via Offline Decision Transformer.

[6] Yachen K, Diyuan S, **Jinxin L**, Li H, and Donglin W. [ICML, 2023]
Beyond Reward: Offline Preference-Guided Policy Optimization. PDF

[7] Qiangxing T, Guanchu W, **Jinxin L**, Donglin W, and Yachen K. [IJCAI, 2020]
Independent Skill Transfer for Deep Reinforcement Learning. PDF

[8] Qiangxing T, **Jinxin L**, Donglin W, and Ao T. [CIKM, 2019]
Time Series Prediction with Interpretable Data Reconstruction. PDF

Selected Preprints

[1] **Jinxin L**, Li H, Yachen K, Zifeng Z, Donglin W, and Huazhe X. [Under review]
CEIL: Generalized Contextual Imitation Learning. PDF

[3] **Jinxin L**, Hongyin Z, Zifeng Z, Yachen K, Donglin W, and Bin W. [Under review]
Design from Policies: Conservative Test-Time Adaptation for Offline Policy Optimization. PDF

[2] **Jinxin L**, Ziqi Z, Zhenyu W, Zifeng Z, Yachen K, Sibo G, and Donglin W. [Under review]
Beyond OOD State Actions: Supported Cross-Domain Offline Reinforcement Learning. PDF

[4] **Jinxin L**, Lipeng Z, Li H, and Donglin W. [Under review]
CLUE: Calibrated Latent Guidance for Offline Reinforcement Learning. PDF

Internship Experience

★ Research Intern (2022.06 - 2022.10) Noah's Ark Lab, Huawei

Finished with two papers on [1] chip placement tasks and [2] standard offline reinforcement learning tasks:

[1] We proposed ChiPFormer that can exploit offline placement designs to learn transferable policies, promote effective finetuning for unseen chip circuits, and reduce the placement runtime from hours to minutes. PDF

[2] We proposed DROP that can exploit offline placement designs to learn transferable policies, promote effective finetuning for unseen chip circuits, and reduce the placement runtime from hours to minutes. PDF

★ Visiting Student (2018.10 - 2019.05) Westlake University

Finished with two papers on time series prediction: [PDF] & [PDF].

Academic Services

★ Talks

[2] *Beyond Design from Data: Design from Policies is All You Need* Ali Cloud, Alibaba

[3] *Control as Inference: A General Review* Second Research Institute of CASIC

[4] *Unsupervised Reinforcement Learning for Skill Discovery* Westlake Robot Learning Symposium

[5] *Hi, Robot: Training a Versatile Robot from Scratch* Talk to the Future, Westlake University

[6] *Time Series Prediction with Interpretable Data Reconstruction* Zhejiang University

★ Teaching

[1] Deep Reinforcement Learning Head TA in Fall 2021 and Spring 2023

★ Conference Reviewer

ICML, ICLR, NeurIPS, IJCAI, AAAI, KDD, and IROS. Academic Services

Research Project

★ Government Sponsored Research Core Members

[1] NSFC General Program Grant No. 62176215

[2] National Science and Technology Innovation 2030 - ***Major Project*** Grant No. 2022ZD0208800

[3] Development of the Blind-Guiding Quadruped Robot System Hangzhou 2022 Asian Games

★ Company Sponsored Research Core Members

[1] Machine Learning and Robot Behavioral Learning Bright Dream Robotics, Guangdong

[2] Quadruped Robot Platform on Farmland Protection Westlake Uni.-Muyuan Joint Research Inst.

[3] Development of Low Cost Navigation Equipment Westlake Uni.-Muyuan Joint Research Inst.

Selected Awards & Honors

Outstanding Student	2022
Best Poster Award at WISE 2021	2021
Suwu Scholarship	2021
Second Prize of National Mobile Internet Application Development Competition	2018
Advanced Individuals of Scientific and Technological Innovation	2018
National Scholarship	2017
First Prize of China Undergraduate Mathematical Contest in Modeling	2017