

JINXIN LIU

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EDUCATION 教育

Zhejiang University	2019.09 - 2024.06
Ph.D., Computer Science	Hangzhou, China
★ Zhejiang University & Westlake University Joint Ph.D. Program	
★ Advisor: Prof. Donglin Wang (国家科技创新 2030 重大项目, 首席科学家)	
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 <i>four</i> consecutive years)	

RESEARCH INTERESTS 研究兴趣

- ★ **Deep RL**: imitation learning, unsupervised (reward-free) RL, learning skills, and deep generative models.
- ★ **Planning and Inference**: offline RL, offline-to-online RL, embodied agent, and design from data.
- ★ **Distribution Shift**: RL dynamics/embodyment adaptation, multi-goal RL, sim2real, and sample-efficient RL.

SELECTED PREPRINTS 最近工作

- [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, Sibao 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](#)

SELECTED PUBLICATIONS 部分文章

- [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, Diyuang 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](#)

INTERNSHIP EXPERIENCE 实习经历

★ 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 Design fROm Policies that decouples the iterative bi-level offline RL from the offline training phase, forming a non-iterative bi-level paradigm and avoiding the iterative error propagation over two levels. [PDF](#)

★ Visiting Student (2018.10 - 2019.05) Westlake University

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

ACADEMIC SERVICES 学术服务

★ Talks

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

[2] *Diffusion-Guided Diversity for Offline RL* Noah's Ark Lab, Huawei

[3] *Conservative Model-based Optimization for Offline RL* Doctoral Student Seminar, Westlake Uni.

[4] *Unsupervised DA with Dynamics-Aware Rewards in RL* Doctoral Student Seminar, Westlake Uni.

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

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

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

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

★ Teaching

[1] Deep Reinforcement Learning Teaching Assistant in Spring 2023

[2] Deep Reinforcement Learning Teaching Assistant in Fall 2021

★ Conference Reviewer

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

RESEARCH PROJECT 研究课题

★ 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 荣誉奖励

Outstanding Student (<10%) 2022

Su-Wu Scholarship (<5%) 2021

Best Poster Award at WISE 2021 (<5%) 2021

The only Grand Prize at Electronic Design Innovation Challenge (<1%) 2018

Advanced Individuals of Scientific and Technological Innovation (<5%) 2018

Second Prize of National Mobile Internet Application Development Competition (<10%) 2018

National Scholarship (<5%) 2017

First Prize of China Undergraduate Mathematical Contest in Modeling (Chongqing; <5%) 2017

National Encouragement Scholarship (<10%) 2016