

# JINXIN LIU

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## EDUCATION

<b>Zhejiang University</b> Ph.D., Computer Science ★ 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)	2019.09 - 2024.06 Hangzhou, China
<b>Chongqing University of Posts and Telecommunications</b> B.Eng., Communications Engineering ★ Cumulative GPA: 3.8/4.0    Rank: 1/42 (for <i>four</i> consecutive years)	2015.09 - 2019.06 Chongqing, China

## RESEARCH INTERESTS

- ★ **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/embodiment adaptation, multi-goal RL, sim2real, and sample-efficient RL.

## 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, 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

- [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, Diyu 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

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- ★ 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

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- ★ 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, AAAI, KDD, and IROS. Academic Services

## RESEARCH PROJECT

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- ★ 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

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| 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 |