

# JINXIN LIU

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## EDUCATION

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- Zhejiang University, Westlake 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

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- ★ **Deep Reinforcement Learning (RL)**: focusing on general and ready-to-be-deployed RL algorithms, *i.e.*, imitation learning, reward-free RL, unsupervised RL (learning skills), and RL in real-world tasks (games).
- ★ **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 PUBLICATIONS

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- [1] **Jinxin L**, Ziqi Z, Zhenyu W, Zifeng Z, Yachen K, Sibó G, and Donglin W. [AAAI, 2024]  
Beyond OOD State Actions: Supported Cross-Domain Offline Reinforcement Learning. [PDF](#)
- [2] **Jinxin L**, Li H, Yachen K, Zifeng Z, Donglin W, and Huazhe X. [NeurIPS, 2023]  
CEIL: Generalized Contextual Imitation Learning. [PDF](#)
- [3] **Jinxin L**, Hongyin Z, Zifeng Z, Yachen K, Donglin W, and Bin W. [NeurIPS, 2023]  
Design from Policies: Conservative Test-Time Adaptation for Offline Policy Optimization. [PDF](#)
- [4] **Jinxin L**, Lipeng Z, Li H, and Donglin W. [CoRL, 2023]  
CLUE: Calibrated Latent Guidance for Offline Reinforcement Learning. [PDF](#)
- [5] **Jinxin L**, Hongyin Z, and Donglin W. [ICLR, 2022]  
DARA: Dynamics-Aware Reward Augmentation in Offline Reinforcement Learning. [PDF](#)
- [6] **Jinxin L**, Donglin W, Qiangxing T, and Zhengyu C. [AAAI, 2022]  
Learn Goal-Conditioned Policy with Intrinsic Motivation for Deep Reinforcement Learning. [PDF](#)
- [7] **Jinxin L**, Hao S, Donglin W, Yachen K, and Qiangxing T. [NeurIPS, 2021]  
Unsupervised Domain Adaptation with Dynamics-Aware Rewards in Reinforcement Learning. [PDF](#)
- [8] Yao L, **Jinxin L**, Zhentao T, Bin W, Jianye H, and Ping L. [ICML, 2023]  
ChiPFormer: Transferable Chip Placement via Offline Decision Transformer. [PDF](#)
- [9] Zifeng Z, Kun L, **Jinxin L**, Donglin W, and Yilang G. [ICLR, 2023]  
Behavior Proximal Policy Optimization. [PDF](#)
- [10] Zexu S, Bowei H, **Jinxin L**, Xu C, Chen M, Shuai Z. [NeurIPS, 2023]  
Offline Imitation Learning with Variational Counterfactual Reasoning. [PDF](#)
- [11] Yachen K, Diyuan S, **Jinxin L**, Li H, and Donglin W. [ICML, 2023]  
Beyond Reward: Offline Preference-Guided Policy Optimization. [PDF](#)
- [12] Qiangxing T, Guanchu W, **Jinxin L**, Donglin W, and Yachen K. [IJCAI, 2020]  
Independent Skill Transfer for Deep Reinforcement Learning. [PDF](#)

## INTERNSHIP EXPERIENCE

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- ★ Research Intern (2022.06 - 2022.10) Noah's Ark Lab  
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  
Early-stage research training: finished with two papers (1st author) 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  
[3] *Control as Inference: A General Review* Westlake University  
[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

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- ★ Government Sponsored Research
- [1] NSFC General Program (*Deep RL on real quadruped robot*) 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
- [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.
- Responsible for** Core Members
- RL theory: research on RL sample efficiency, domain adaptation, and sim2real issues.
  - Real-world robot deployment: Deploying RL algorithms on a robotic arm and a quadruped robot.

## 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