

ZEWU ZHENG

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EDUCATION

The Chinese University of Hongkong	2023.08
Statistics, Phd	Hongkong, China
Johns Hopkins University	2017.09 - 2019.06
Applied Mathematics and Statistics, Master , School of Engineering	Baltimore, USA
Sun Yat-Sen University (Project 985, top 10 in China)	2012.09 - 2016.05
Statistics, Bachelor , School of Mathematics and Computer Science	Guangzhou, China

PROFESSIONAL EXPERIENCE

Chinese University of Hongkong(SZ)	2022.09 - 2023.01
Research Assisant	Shenzhen
<ul style="list-style-type: none">• Cooperate with RAs in Prof Baoxiang Wang's group about applying bayesian persuasion in multi-agent RL setting.• Reproduce experiments in recent papers on the topics of RL capacity loss.• Research for dealing with representation collapse and distributional shift in RL.	
Qiyuan Lab(Held by Tsinghua University)	2021.04 - 2022.08
Algorithm Engineer	Beijing
<ul style="list-style-type: none">• Comprehensively do research on open source simluation platform(carla, airsims), and be responsible for applying control algorithm based on these platform• Design rule-based opponent in the setting of car intercept, which helps reinforcement learning algorithm training more efficiently• Apply imitation learning method (behavioral cloning) to learn from expert's data	

HSBC Electronic Data Processing (Guangdong) Limited

2016.09 - 2017.08

Data Analyst

Guangzhou

- Responsible for data cleaning and data mart maintenance, and get them ready for data analysis
- Develop visualization tools in Credit Card Application Project
- Statistically analyse business data, and recommend better strategies to customers

PROJECT EXPERIENCE

Intelligent Fighter Project

2020.09 - 2021.04

Research Assistant

Tsinghua University

1. Find possible solutions for the project through reinforcement learning related papers
2. Based on research results, apply PPO algorithm, in combination with GAE, RNN, PBT(reinforcement learning training methods) on this project
3. Design competitive rule based algorithm to assist training, which contributes greatly to the project's success
4. Responsible for Gitlab code management, apply Kubernetes and Ray to distributed training

Texas Hold'em Poker Project

2019.08 - 2019.12

Research Assistant

Sun Yat-Sen University

1. Explore basic knowledge of reinforcement learning by reading books written by Sutton, and share the knowledge to group members
2. Discuss papers on game theory weekly, focusing on extensive form games(Texas hold'em poker)
3. Apply Monte Carlo Counterfactual Regret Minimization Methods in six players Texas hold'em poker

PUBLICATION

1. Believe What You See: Implicit Constraint Approach for Offline Multi-Agent Reinforcement Learning, Nips (top AI conference) 2021, accepted

Yiqin Yang, Xiaoteng Ma, Chenghao Li, **Zewu Zheng**, Qiyuan Zhang, Qianchuan Zhao,
Gao Huang, Jun Yang

HONORS & AWARDS

Third Class Scholarship(Sun Yat-Sen University)

2015

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** Python, SAS, R, Git, Ray, Kubernetes, Pytorch, Docker
- **Languages:** TOEFL-iBT: 102, Sep, 03, 2016
- **Interests:** Basketball, Badminton, Ski