YUHUI **CHEN**

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RESEARCH INTERESTS

Reinforcement learning, Robot learning, Foundation models, Generative Models

EDUCATION

Sep 2022–Jun 2027 **Chinese Academic of Science, Institution of Automation** Beijing, China
Ph.D degree

Research focus: deep reinforcement Learning, robot learning, and generative models,
Advised by Prof. Dongbin Zhao and Haoran Li

Jun 2020–Jun 2022 **Australian National University** Canberra, Australia
Upper Second Class Honours Bechalor Degree

Major in Electronics and Communication, GPA: 4.0/4.0

Sep 2018–Jun 2020 **Beijing Institute of Technology** Beijing, China
Bechalor Degree, Honor Graduate, GPA: 3.3/4.0

Major in Information Engineering, GPA: 3.3/4.0

PUBLICATIONS AND PREPRINTS

Jul 2024 **TeViR: Text-to-Video Reward with Diffusion Models for Efficient Reinforcement Learning**
Chen Yuhui, Li Haoran, Jiang Zhennan, Wen Haowei, and Zhao Dongbin
Under Review, submitted to IEEE TSMC

Sep 2024 **Generalizing Consistency Policy to Visual RL with Prioritized Proximal Experience Regularization**
Li Haoran, Jiang Zhennan, **Chen Yuhui**, and Zhao Dongbin
Neural Information Processing Systems (NeurIPS) 2024, Full paper, Poster

May 2024 **Boosting continuous control with consistency policy**
Chen Yuhui, Li Haoran, and Zhao Dongbin
Autonomous Agents and Multi-Agent Systems (AAMAS) 2024, Full paper, Oral Speech

RESEARCH AND WORK EXPERIENCE

Oct 2021 – Mar 2022 **Dajiang Innovations.** Shenzhen, China
MCU embedded engineer in R&D Center, Flight Dept.

Developed drivers for chips using I2C, SPI, and other protocols, including charging chips, Hall joysticks, and IMUs.
Developed an RTOS-based embedded system to meet business requirements.
Design an arbiter that mimics RTOS priority rules to streamline warning prompts for clear logic.

Nov 2020 – Jul 2021 **Institute of Automation, Chinese Academy of Sciences** Beijing, China
Research Intern

Developed ROS system on Xavier for upper-level decision making.
Developed a RTOS-based system for multi-task handling on a robot.
Implemented Yolov3 for armor detection and tracking on Xavier.
Implemented a Kalman filter for real-time multi-sensor data fusion to achieve accurate robot positioning.

Awards

May 2024 **AAMAS-24 Scholarship [$1000]**
ACM Special Interest Group on Artificial Intelligence (ACM SIGAI)

Jun 2022 **Xuteli Graduates Award**
Beijing Institute of Technology (Top 5%)

Mar 2022 **1st prize in RoboMaster University AI Challenge (RMUA) China and 2nd prize in RMUA Global**
DJI RoboMaster Organizing Committee and the IEEE International Conference on Robotics and Automation (ICRA)

Jun 2019 **Xuteli Scholarship [$1500]**
Beijing Institute of Technology (Top 3%)

SKILLS AND INTERESTS

Programming Python / Pytorch, Jax, Numpy
C/C++, ROS, RViz, Moveit
SOLIDWORKS for 3D printing

Language Chinese Mandarin (Native), English (Fluent, 96 of TOEFL in Jun 2021), Chinese Cantonese (Basic)

Hobbies Aerial Photography, FPV drone, Basketball, American Football, Skateboard, Ski
Travel, Mountain Climbing (Summitted 6178 Meters' Yuzhu Peak/Sob Gangri on 12th Jul 2019)