## **Ruihan Yang** 杨睿涵

San Diego, CA

Tianjin, China

Sep. 2021 - Present

San Diego, CA Sep. 2019 - Mar. 2021

Sep. 2015 - Jul. 2019

#### EDUCATION

- UC San Diego
  Ph.D in Machine Learning
  UC San Diego
  M.S in Computer Science
  - Nankai University B.E in Software Engineering

### PUBLICATIONS

•	Neural Volumetric Memory for Legged Locomotion Control	( )	
	Ruihan Yang, Ge Yang, Xiaolong Wang	CVPR 2023 (Highlight)	
•	Learning Vision-Guided Quadrupedal Locomotion End-to-End with Cross-Modal	Transformers	
	Ruihan Yang*, Minghao Zhang*, Nicklas Hansen, Huazhe Xu, Xiaolong Wang	ICLR 2022 (Spotlight)	
•	Multi-Task Reinforcement Learning with Soft Modularization		
	Ruihan Yang, Huazhe Xu, Yi Wu, Xiaolong Wang	NeurIPS 2020	
•	<ul> <li>Vision-Guided Quadrupedal Locomotion in the Wild with Multi-Modal Delay Randomization Chieko Sarah Imai*, Minghao Zhang*, Yuchen Zhang*, Marcin Kierebiński,</li> </ul>		
	Ruihan Yang, Yuzhe Qin, Xiaolong Wang	<b>IROS 2022</b>	
•	DexMV: Imitation Learning for Dexterous Manipulation from Human Videos Yuzhe Qin <sup>*</sup> , Yueh-Hua Wu <sup>*</sup> , Shaowei Liu, Hanwen Jiang,		
	Ruihan Yang, Yang Fu, Xiaolong Wang	ECCV 2022	
•	Suphx: Mastering Mahjong with Deep Reinforcement Learning		
	Junjie Li, Sotetsu Koyamada, Qiwei Ye, Guoqing Liu, Chao Wang,		

# Industrial Experience

Ruihan Yang, Li Zhao, Tao Qin, Tie-Yan Liu, Hsiao-Wuen Hon

• Allen Institute for AI (AI2) Research Intern @ PRIOR	Seattle, WA Jun. 2023 - Sep 2023
• Work on Emboddied AI	Ĩ
<ul> <li>Adobe Research Research Intern. Work with Dr. Ruben Villegas, Dr. Duygu Ceylan</li> <li>o Work on Motion Style Transfer</li> </ul>	San Jose, CA(Remote) Jun. 2021 - Dec. 2021
<ul> <li>Microsoft Research Asia</li> <li>Research Intern at Machine Learning Group. Work with Qiwei Ye, Dr. Tao Qin</li> </ul>	Beijing, China Mar. 2018 - Jun. 2019
• Built AI for Mahjong (One of the hardest imperfect-information game, m in East Asia, well matched to the top professional human player	ost popular board game

# PROFESSIONAL SERVICE

	ECCV 2022 / CVPR 2023 / ICCV 2023 / NeurIPS 2023 AAAI 2021,2023 / ICRA 2022,2023 / IROS 2023
Journal Reviewer	RA-L

# TEACHING EXPERIENCE

• Math 155A: 3D Computer Graphics Teaching Assistant	Fall. 2020	
• ECE 176: Introduction to Deep Learning and Applications W Teaching Assistant	7 Vinter. 2021 / Winter. 2023	
Honors & Awards		
• First Class Scholarship for Nankai University Undergraduate (Top $5\%$ )	Dec. 2016, Dec. 2017	
• Public Dedication and All-round Capability Scholarship(15/96), Nankai Universi	ty Oct. 2018	
Selected Projects		
• TorchRL	Dec. 2018 - Present	
<ul> <li>Personal implementation of various RL algorithms</li> <li>Implemented various RL methods: off-policy and on-policy methods.</li> </ul>		
• Earned over 150 stars on github.		
• AI for Prosthetics NIPS 2018: AI for Prosthetics Challenge	Jul. 2018 - Nov.2018	
• Developed a controller to enable a physiologically-based human model with a prosthetic leg to walk and run.		
<ul> <li>Trained robotic controller using Proximal Policy Optimization(PPO), with symmetric loss / observation engineering / reward shaping / model using residual blocks. / dense goal-conditioned model</li> </ul>		
engineering / reward shaping / model using residual blocks. / dense goal-condition		
<ul> <li>engineering / reward shaping / model using residual blocks. / dense goal-condition</li> <li>Ensembled multiple actors to cope with different circumstances</li> </ul>		

Programming Languages	C++/Python/C/Java/Bash/Latex/SQL
Techniques	Git/OpenMP/SIMD/MPI/CUDA/Docker/Pybind/Pytorch/Tensorflow