

GENG CHEN

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🎓 EDUCATION

Shanghai Jiao Tong University (SJTU), Shanghai, China 2019 – Present

B.Eng. in Computer Science and Engineering, IEEE Honor Class

Zhiyuan College, Shanghai Jiao Tong University, Shanghai, China 2019 – Present

Zhiyuan Honor Program of Engineering (Elite Program for Top 5% of Students at SJTU)

♡ RESEARCH INTERESTS

Computer Vision, Machine Learning, Robotics

📖 PUBLICATIONS

Continual Predictive Learning from Videos [CVPR 2022 **Oral, 4%**] [Project Page]

Geng Chen*, Wendong Zhang*, Han Lu, Siyu Gao, Yunbo Wang, Mingsheng Long, Xiaokang Yang

👥 RESEARCH EXPERIENCE

Stanford University Palo Alto, USA (remote)

Research Assistant Advisor: Prof. Jiajun Wu

- **Learning Action Concepts from Language for Long-Horizon Planning** Apr 2022 – Dec 2022
 - Used neuro-symbolic methods to ground actions to concepts and improve the compositional generalization ability of reinforce learning algorithm
 - Proposed a bi-level method which learns to plan for step-by-step instructions to achieve the goal instruction

Shanghai Jiao Tong University Shanghai, China

Research Assistant Advisor: Prof. Yunbo Wang

- **CPL: Continual Predictive Learning from Videos** Jun 2021 – Nov 2021
 - Proposed a new world model to capture task-specific visual dynamics in a Gaussian mixture latent space.
 - Introduced the predictive experience replay method to overcome the forgetting issue in the world model.
 - Leveraged a non-parametric task inference strategy to avoid coupling the forgetting issues caused by the introduction of a task inference model.
- **Continual model-based reinforcement learning** Feb 2022 – Jun 2022
 - Extended CPL for continual visual model-based reinforcement learning tasks

🏆 HONORS AND AWARDS

Zhiyuan College Honors Scholarship(Top 5%), Shanghai Jiao Tong University 2019 – 2022

SJTU Academic Excellence Scholarship(Top 20%), Shanghai Jiao Tong University 2020 – 2022

🏠 ACADEMIC PERFORMANCE

I got an overall GPA of 86.69/100 and a core GPA of 87.59/100.

Selected Courses

Linear Algebra(Honor)(93) Discrete Mathematics(Honor)(92) Convex and Linear Optimization(93)
Algorithm Design and Analysis(100) Data Structure(Honor)(94) Programming Languages(94)

Skills

Python (PyTorch, Numpy), C/C++, SQL, JavaScript, L^AT_EX