



Ding Chen

Age: 27

Research Interests: RL, DL, NeuroAI



Shenzhen, China



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Education

2019.9~2024.6 **Ph.D. candidate** **Shanghai Jiao Tong University**

- ◆ Department of Computer Science and Engineering, advise by Tiejun Huang

2015.9~2019.6 **Bachelor** **Shanghai Jiao Tong University**

- ◆ Department of Computer Science and Engineering, GPA 3.89, top 20% in majors



Publications & Patents

- ◆ Fully Spiking Actor Network with Intra-layer Connections for Reinforcement Learning (IEEE Transactions on Neural Networks and Learning Systems, Chinese Academy of Sciences Q1: accepted, first author)
- ◆ 脉冲强化学习算法研究综述 (计算机学报, 2023. CCF-A Chinese Journals: accepted, first author)
- ◆ SpikingJelly: An open-source machine learning infrastructure platform for spike-based intelligence (Science Advances, Chinese Academy of Sciences Q1: accepted)
- ◆ Parallel Spiking Neurons with High Efficiency and Ability to Learn Long-term Dependencies (NeurIPS 2023, CCF-A Conference: accepted)
- ◆ 田永鸿, 高文, 陈鼎, 邢培银, 一种保护隐私的监控方法和系统。 (2019)



Research & Internship

2020.07~ **Research** **Spike-based Reinforcement Learning**

- ◆ Proposing a novel spiking actor network
- ◆ Proposing a novel intra-layer connection mechanism
- ◆ Combining spike-based RL with neuromorphic cameras for autonomous driving

2020.07~ **Internship** **Pengcheng National Laboratory**

- ◆ Project: "Pengcheng Cloud Brain" Network Intelligence Major Technology Infrastructure
- ◆ Contribution: Provide spike-based RL algorithms and participate in the construction of an efficient open-source deep learning framework for Spiking Neural Network——SpikingJelly



Awards

2019.06 **Shanghai Jiao Tong University Outstanding Graduate**

2020.12 **2020 OpenI/O Excellent Project**

2021.12 **2021 OpenI/O Excellent Project**

2023.02 **2022 OpenI/O Excellent Project**



Skills

- ◆ **Programming Languages:** Python, C/C++
- ◆ **Algorithms:** Reinforcement Learning, Deep Learning, Spiking Neural Network
- ◆ **Framework:** PyTorch, Tensorflow