



Ding Chen

Age: 26

Research Interests: RL, NeuroAI



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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, awarded as an outstanding graduate



Publications & Patents

- ◆ “脉冲强化学习算法综述”（计算机学报，2023. CCF-A Chinese Journals: accepted, first author)
- ◆ “Fully Spiking Actor Network with Intra-layer Connections for Reinforcement Learning”（TNNLS, CCF-B English Journals: second review, first author)
- ◆ 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

2019.07~2020.06 **Research** **Federated Learning**

- ◆ Overcoming forgetting in federated learning on non-IID data
- ◆ Improving the speed of homomorphic encryption algorithm in federated learning

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

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
- ◆ **Spike-base RL:** Reward-based Learning by Three-factor Learning Rules, ANN to SNN Conversion for RL, RL Methods using Spike-based BP