## **Requirement**

* TensorFlow == 1.0
* Stable-baselines == 2.10.2
* gym == 0.19.0
* atari\_py == 0.2.6
* pettingzoo
* Spinning Up

## **Setup for PettingZoo**

pip install pettingzoo

pip install multi-agent-ale-py

pip install autorom

AutoROM --install-dir /.

AutoROM --accept-license

## **Setup for Spinning Up**

Follow the instructions on https://spinningup.openai.com/en/latest/user/installation.html

## **Team member contribution**

* [Yilan Lu](mailto:elainelu@seas.upenn.edu), Jiacheng Wei : Build and train DDQN and Policy Gradient models, improve the models’ performance
* [Haotong Tian](mailto:tianht@seas.upenn.edu): Establish the two-agent Atari Boxing environment with PettingZoo, finish the multi-agent adversarial training