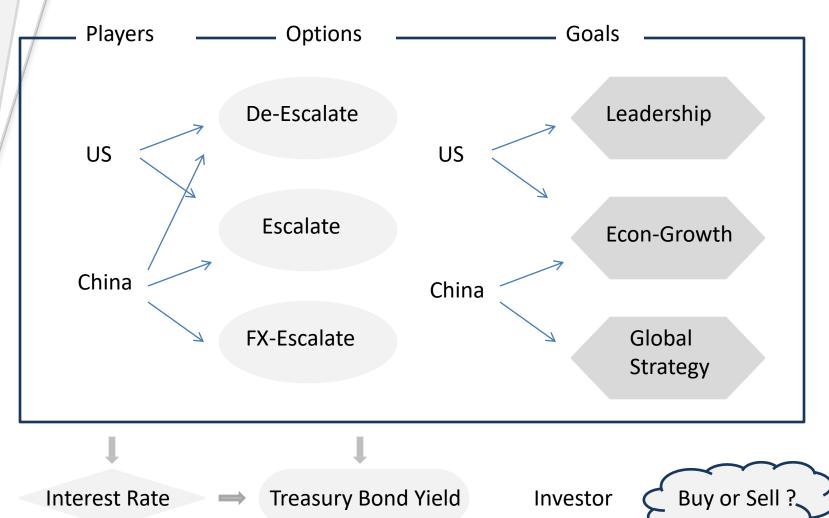


Trade War as a Game

Final Project 3547- Intelligent Agents and Reinforcement Learning

Shaoqing Tan Shihan Sun

Background

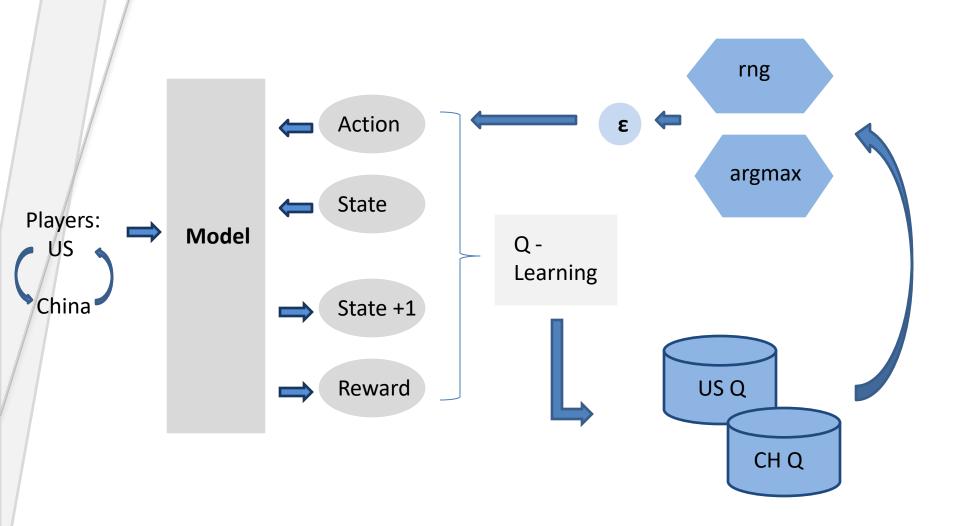




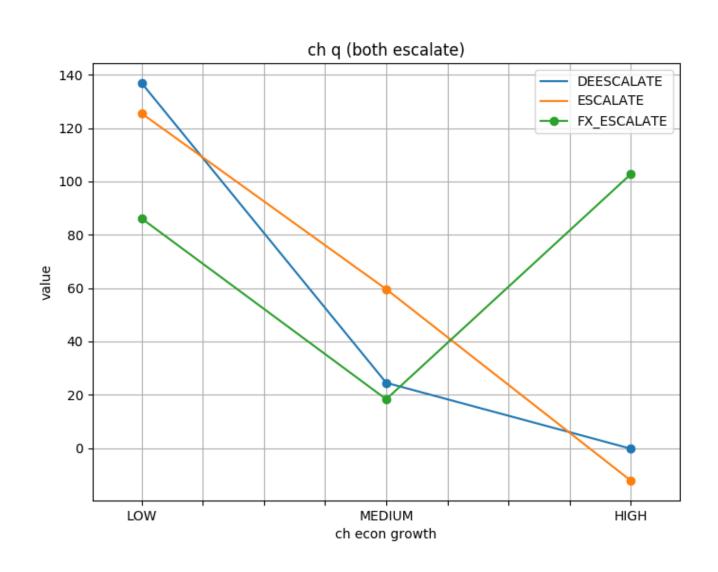
FED



Model 1 - Trade War



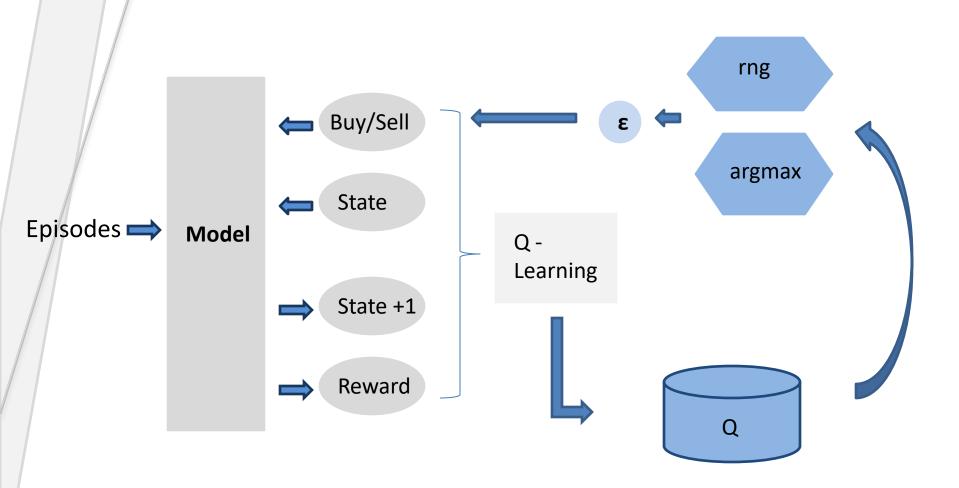
Model 1 - Trade War



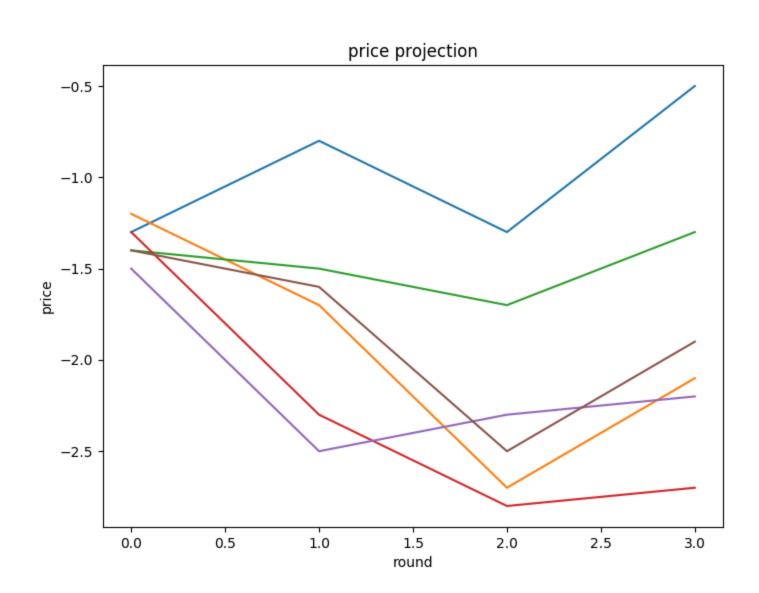
Model 1 – Trade War

ROUND	US_MOVE	CH_MOVE	US_ECON	CH_ECON	US_REWARD	CH_REWARD
0	ESCALATE	ESCALATE	MEDIUM	HIGH		
1	ESCALATE	ESCALATE_FX	LOW	MEDIUM	10	240
2	ESCALATE	DE_ESCALATE	LOW	LOW	70	-10
3	DE_ESCALATE	DE_ESCALATE	HIGH	HIGH	420	980

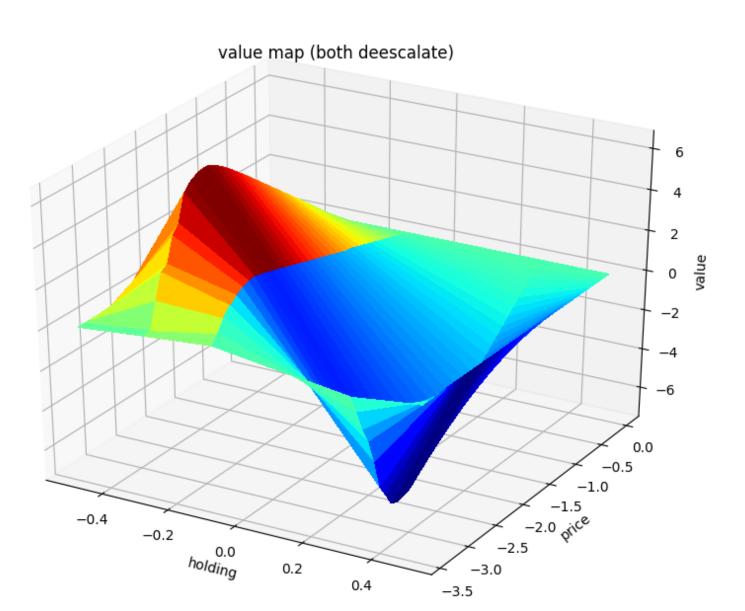
Model 2 – Buy/Sell T-Bond



Model 2 - Buy/Sell T-Bond



Model 2 - Buy/Sell T-Bond



Reference

- •https://github.com/ShangtongZhang/reinforcement-learning-an-introduction
- •https://www.forbes.com/sites/michaelfoster/2019/11/09/a-surprising-way-to-play-the-trade-war-for-69-dividends/#3f306b254021

Thank you!

Please don't take this demo as investment advice. Good luck!