

## Education

### Shanghai Jiao Tong University

Shanghai

B.E., School of Electronic Information and Electrical Engineering

Sep. 2018 – June 2022(Expected)

- Total Score: 84.6/100, CS related: 91.6/100
- CS related course: Thinking and Approach of Programming, Fortran Programming and Scientific Computing, Randomicity and Complexity, Stochastic Simulation Methods and Its Applications, Probability and Statistics, Data Structure, Digital Electronics, Discrete Mathematics, Compiler Principles, Reinforcement Learning, Machine learning (AI), Deep Learning and Its Applications, Application of fuzzy Math, Computer Network

### University of Virginia

Remote visit

Summer Internship

Mar. 2021 – Now

## Experience

### On Symmetry Property in Adversarial Examples

Sep. 2020 – Nov. 2020

with Prof. Ni

Shanghai Jiao Tong University

- Discover an intriguing phenomenon called Symmetry Property in adversarial examples
- Design a novel loss function that constrain features to improve robustness
- Submit a paper to CVPR2021 as the third author
- Personal Contribution: Run most of the experiments, propose the final version of the loss function, and participate in paper writing

### Identifying Influential Inputs in Probabilistic Logic Programming

Aug. 2020 – Mar. 2021

with Prof. Zhou

Georgetown University

- Propose a provenance-based approach towards identifying influential inputs in PLP programs
- Submit a paper to VLDB2021 as the fourth author
- Personal Contribution: Run most of experiments and propose the final version of loss function

### Universal perturbations for GANs

Jul. 2021 – Now

with Prof. Ni

Shanghai Jiao Tong University

- Find universal perturbations that defend against arbitrary face manipulations with arbitrary GANs

### Combination of adversarial learning and cost-sensitive learning

Mar. 2021 – Now

with Prof. Evans

University of Virginia

- Combine adversarial learning with cost-sensitive learning to defend targeted attack
- Hold a group meeting that sharing papers within the whole lab

## Coding Projects

2048 Game | Python, Jupyter Notebooks, TensorFlow, Keras

Mar. 2020 – June 2020

Atari &amp; MuJoCo | Python, Jupyter Notebooks, PyTorch, Keras

Mar. 2020 – June 2020

Context-Free Grammar Compiler | C++, Visual Studio

Mar. 2020 – June 2020

Melody Generation | Python, Jupyter Notebooks, TensorFlow, Keras

Sep. 2019 – Jan. 2020

Deep Learning Specialization | Python, Jupyter Notebooks

Aug. 2019 – Oct. 2019

Game Theory | C++, MATLAB, R

June 2019 – Aug. 2019

## Awards

### The Mathematical Contest in Modeling 2020

Feb. 2020

Be designated as Meritorious Winner

Problem Chosen – A

### The Mathematical Contest in Modeling 2019

Jan. 2019

Be designated as Successful Participant

Problem Chosen – A

## Language

TOEFL: R29+L30+S24+W28=111

GRE : V156+Q170+A4.0