

# Costa Huang

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## PROJECT INTERESTS

Artificial Intelligence, Reinforcement Learning, Game AI, Open Source Software, Visualization, Concurrent Programming, Cloud Computing, Highly Scalable Programs, Web Programming, DevOps.

## SKILLS

Python, Pytorch, Tensorflow, Statistics, Go, Docker, JavaScript, Git, Linux, SQL.

## EXPERIENCE

### Drexel University, Philadelphia, PA

*Research Assistant*

**Sep 2019 – Present**

Working with my advisor Dr. Santiago Ontañón on game AI research. We use a customized Real-time Strategy Game and train agents with reinforcement learning algorithms such as (A2C) Advantage Actor Critic.

### Carely, Inc., Greenville, SC

*Backend Developer*

**Jun 2018 – Sep 2018**

Developed API server for the web and mobile platforms by using Go and MySQL. Coordinated through Jira, Slack and Github. Worked with Docker, OpenAPI(Swagger), and Google App Engine.

### Furman University, Greenville, SC

*Research Fellow*

**Jun 2017 – Aug 2017**

Worked with Dr. Chirs Healy to conduct research on travel plan recommendation based on historical traffic flow data. Authored a Python server package, StreetTraffic, that crawls traffic flow data. Created proper unit-tests and documentation by using Sphinx.

## EDUCATION

### Furman University, Greenville, SC

*B.S in Computer Science*

*B.S in Mathematics*

**Aug 2013 – May 2018**

- Dean's list (2017 - 2018)
- GPA: 3.40 / 4.00

### Drexel University, Philadelphia, PA

*Ph.D in Computer Science (Expected 2023)*

**Sep 2018 – Present**

- GPA: 3.63 / 4.00

## PUBLICATIONS

“Comparing Observation and Action Representations for Reinforcement Learning in  $\mu$ RTS”, Huang, S., Ontañón, S., *AIIDE Workshop on Artificial Intelligence for Strategy Games*, October 2019.

## PROJECTS

### CleanRL

*Reinforcement Learning Library*

[github.com/vwxyzjn/cleanrl](https://github.com/vwxyzjn/cleanrl)

• Python ★ 38

### Gym-MicroRTS

*OepnAI Gym Env for MicroRTS*

[github.com/vwxyzjn/gym-microrts](https://github.com/vwxyzjn/gym-microrts)

• Python ★ 2

### Portwarden

*Backup Encrypted Bitwarden Vault*

[github.com/vwxyzjn/portwarden](https://github.com/vwxyzjn/portwarden)

• Go ★ 37

### StreetTraffic

*Road Traffic Data Library*

[streettraffic.org](https://streettraffic.org)

• Python ★ 11