# Qinbo Li

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## EDUCATION

**Texas A&M University — Computer Science**

| | | |
|---|---|---|
| PhD | GPA: 4.00 / 4.00 | Aug.2017 – Present |
| Master of Science | GPA: 3.75 / 4.00 | Aug.2013 – Aug.2016 |

**Sun Yat-Sen University — Software Engineering**

| | | |
|---|---|---|
| Bachelor | GPA: 3.77 / 5.00 | Sep.2009 – Jun.2013 |

## WORK EXPERIENCE

**Wyze Labs**

*Research Scientist* (*Intern*)                                                                      Jan.2021 – May.2021

- Learning Efficient Device-Specific Models under Edge-Cloud Collaboration Framework.
- Rule Recommender System using Graph Neural Network.

**UWinTech** (*A DevOps Startup Company*)

*Machine Learning Engineer* (*Intern*)                                                              Feb.2017 – Jul.2017

- Developed anomaly detection and alerting module which can monitor servers and alert anomaly data in real time
- Built anomaly detection service from 0 to 1. Using LSTM, Keras, Tensorflow, Tornado, Apache Storm, InfluxDB

## CURRENT RESEARCH PROJECTS

**Learning to Use Tools with Deep Reinforcement Learning**

*Lab: Brain Network Lab*

- Building an open-source environment for tool using research; Train the agent to use tools for affordance tasks
- Using OpenAI gym, PyBullet simulator

## PUBLICATIONS (**Selected**)

1. **Qinbo Li** and Nima Kalantari, "Synthesizing Light Field From a Single Image with Variable MPI and Two Network Fusion", **SIGGRAPH** Asia, 2020

2. **Qinbo Li**, et al., "Video Face Recognition with Audio-Visual Aggregation Network", **International Conference on Neural Information Processing**, 2021 (accepted for **oral presentation**)

3. **Qinbo Li** and Yoonsuch Choe, "Construction and Use of Tools through Hierarchical Deep Reinforcement Learning", Human-like Behavior and Cognition Workshop in **IROS**, 2021

4. Hye-Chung Kum, Eric D. Ragan, Gurudev Ilangovan, Mahin Ramezani, **Qinbo Li**, and Cason Schmit, "Enhancing Privacy through an Interactive On-demand Incremental Information Disclosure Interface: Applying Privacy-by-Design to Record Linkage", Symposium on Usable Privacy and Security (**SOUPS**), 2019

5. **Qinbo Li** and Sheng-Jen ("Tony") Hsieh, "An Intelligent Tutoring System for Computer Numerical Control Programming", International Journal of Engineering Education (**IJEE**), 2019.

6. Han Wang, **Qinbo Li**, Jaewook Yoo, and Yoonsuck Choe, "Dynamical analysis of recurrent neural circuits in articulated limb controllers for tool use", International Joint Conference on Neural Networks (**IJCNN**), 2016

7. **Qinbo Li**, Jaewook Yoo, and Yoonsuck Choe, "Emergence of tool use in an articulated limb controlled by evolved neural circuits", 2015 International Joint Conference on Neural Networks (**IJCNN**), 2015

8. Yoonsuck Choe, Jaewook Yoo, and **Qinbo Li**. "Tool construction and use challenge: Tooling test rebooted", In **AAAI** Workshop, 2 pages, 2015.

## SKILLS & OTHERS

**Programming Languages**: Python, C/C++, MATLAB, Java, PHP, Javascript
**Machine Learning**: Tensor Flow, Pytorch, Pandas, sklearn
**Web Development**: HTML, CSS, JQuery, Flask, Node.js, CodeIgniter, Angular, PrimeNG, Bootstrap
**Databases**: MySQL, MongoDB, Redis, InfluxDB
**Others**: Git, Git Flow, SourceTree, Apache Storm, Redis Queue
**Interests**: Computer Vision, Deep Learning, Reinforcement Learning

## AWARDS

TAMU Spring 2020 Programming Contest, 1st in Graduate Students, 1st in Individual Teams
Best poster award, "Evolving Neural Networks to Control Tool Use", Computer Sciences and Information Technologies Symposium, UKC 2015
Excellence award of China Software Cup (National), 2012