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

Research Scientist (*Intern*) Jan.2021 - Present

- Conduct research in Computer Vision, Deep Learning

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

Low Resolution Video Face Recognition with Audio-Visual Fusion

Lab: Brain Network Lab

- Building an attention module to fuse audio and visual embeddings to improve low-resolution video face recognition
- Using ArcFace, DeepSpeaker, CNN, LSTM; Building in PyTorch

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

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., "Increasing Transparent and Accountable Use of Data by Quantifying the Actual Privacy Risk in Interactive Record Linkage", **AMIA** Annual Symposium 2019
3. 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
4. **Qinbo Li** and Sheng-Jen ("Tony") Hsieh, "An Intelligent Tutoring System for Computer Numerical Control Programming", International Journal of Engineering Education (**IJEE**), 2019.
5. Han Wang, **Qinbo Li**, Jaewook Yoo, and Yoonsuck Choe, "Dynamical analysis of recurrent neural circuits in articulated limb controllers for tool use", 2016 International Joint Conference on Neural Networks (**IJCNN**), Vancouver, BC, 2016
6. **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**), Killarney, 2015
7. Yoonsuck Choe, Jaewook Yoo, and **Qinbo Li**. "Tool construction and use challenge: Tooling test rebooted", In **AAAI**-15 Workshop on Beyond the Turing Test, 2015. 2 pages.

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