Qinbo Li

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EDUCATION

Texas A&M University — Computer Science
PhD	GPA: 4.00 / 4.00	Aug.2017 – May.2022
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

Meta
Research Scientist   Feb.2022 – Present
- 3D vision/reconstruction (Gaussian splatting, NeRF, Mesh extraction and texturing)
- Generative models (Diffusion models for 3D view synthesis and inpainting)

Wyze Labs
Research Scientist (*Intern*)   Jan.2021 – May.2021
- Learning efficient device-specific models under the 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.

PUBLICATIONS (Selected)

1. Brian Chao, Hung-Yu Tseng, Lorenzo Porzi, Chen Gao, Tuotuo Li, **Qinbo Li**, Ayush Saraf, Jia-Bin Huang, Johannes Kopf, Gordon Wetzstein, Changil Kim, "Textured Gaussians for Enhanced 3D Scene Appearance Modeling", **CVPR** 2025 (under review)

2. Chieh Hubert Lin, Changil Kim, Jia-Bin Huang, **Qinbo Li**, Chih-Yao Ma, Johannes Kopf, Ming-Hsuan Yang, Hung-Yu Tseng, "Taming latent diffusion model for neural radiance field inpainting", **CVPR** 2024

3. Jaehoon Choi, Rajvi Shah, **Qinbo Li**, Yipeng Wang, Ayush Saraf, Changil Kim, Jia-Bin Huang, Dinesh Manocha, Suhib Alsisan, Johannes Kopf, "LTM: Lightweight Textured Mesh Reconstruction of Unbounded Scenes Using Neural Fields", **CVPR** 2024

4. Hung-Yu Tseng, **Qinbo Li**, Changil Kim, Suhib Alsisan, Jia-Bin Huang, Johannes Kopf, "Consistent View Synthesis with Pose-Guided Diffusion Models", **CVPR** 2023

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

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

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

8. 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

9. **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

SKILLS & OTHERS

Programming Languages: Python, C/C++, MATLAB, Java, Javascript
Machine Learning: Pytorch, Tensor Flow, 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

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
Second class scholarship at Sun Yat-Sen University, 2011 and 2012