Qingyang Tan

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🔍 Research Interests

Computer Graphics, Computer Vision, Machine Learning

🎓 Education

University of Maryland, College Park (UMD), MD, U.S.   2018 – Present

Ph.D. Student in Computer Science
Advisor: Prof. Dinesh Manocha

University of Chinese Academy of Sciences (UCAS), Beijing, China   2014 – 2018

B.Eng. in Computer Science and Technology
GPA: 3.9/4.0   Rank: 1/61

Massachusetts Institute of Technology (MIT), MA, U.S.   2017

Special Student in EECS
GPA: 5.0/5.0

✎ Experience

3D Mesh Deformation through Neural Network

UMD MD, U.S.   June 2018 – Present

Research Assistant   Advisors: Prof. Dinesh Manocha, Prof. Lin Gao, Dr. Zherong Pan

Recognition of Isolated and Continuous Sign Language

Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS) Beijing, China
Sept. 2017 – June 2018

Bachelor Thesis   Advisors: Prof. Xilin Chen, Prof. Xiujuan Chai

Neural Network for 3D Mesh Data

ICT, CAS Beijing, China   May 2016 – Sept. 2017

Research Assistant   Advisors: Prof. Shihong Xia, Dr. Yu-Kun Lai, Prof. Lin Gao

Machine Learning Application in Startup Success

MIT Sloan School of Management MA, U.S.   Feb. 2017 – May 2017

UROP Project   Advisor: Prof. Christian Catalini

Control System Implementation for Testing Biomedical Material

MIT MA, U.S.   Feb. 2017 – May 2017

UROP Project   Advisor: Prof. Elazer Edelman

Ultra-sensitive Controllable Antibiotics Scavenger

Institute of Biophysics (IBP), CAS Beijing, China   Apr. 2016 – Oct. 2016

iGem Competition   Advisor: Prof. Jiangyun Wang

✈ Publications

Variational Autoencoders for Deforming 3D Mesh Models

    Qingyang Tan, Lin Gao, Yu-Kun Lai, and Shihong Xia
    IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018

Mesh-based Autoencoders for Localized Deformation Component Analysis

    Qingyang Tan, Lin Gao, Yu-Kun Lai, Jie Yang, and Shihong Xia
    AAAI Conference on Artificial Intelligence (**AAAI**) (Spotlight), 2018

⚙ Skills

- Hands on experience of Machine Learning and Neural Network libraries including TensorFlow, PyTorch, scikit-learn, Theano, Caffe
- Fluent in C, Matlab, Python
- Knowledge of SQL, Verilog, HTML

♡ Honors and Awards

UCAS First-Class Academy Fellowship	Oct. 2015 / Oct. 2016 / Oct. 2017
UCAS Best Undergraduate Research-Intern Report	Nov. 2015 / Apr. 2016

ℹ Miscellaneous

- Languages: English - Fluent, Mandarin - Native speaker
- Hobbies: Swimming, Science Fiction
- Extracurricular Activities:
    - Asian International Model United Nations, Peking University, Beijing, China   Apr. 2016
    - Editor for UCAS Undergraduate Social Platform, UCAS, Beijing, China   Sept. 2015 – June 2016
    - Volunteer Science Teacher, Hua-Ao School, Beijing, China   Oct. 2014 – Jan. 2015