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

A genetically engineered Escherichia coli that senses and degrades tetracycline antibiotic residue

Zepeng Mu, Zhuoning Zou, Ye Yang, Wenbo Wang, Yue Xu, Jianyi Huang, Ruiling Cai, Ye Liu, Yajin Mo, Boyi Wang, Yiqun Dang, Yongming Li, Yushan Liu, Yueren Jiang, **Qingyang Tan**, Xiaohong Liu, Cheng Hu, Hua Li, Sha Wei, Chunbo Lou, Yang Yu, and Jiangyun Wang
Synthetic and Systems Biotechnology, 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

Beijing Excellent Graduate June 2018
UCAS Excellent Graduate June 2018
UCAS Excellent Bachelor Thesis June 2018
UCAS First-Class Academy Fellowship Oct. 2015 / Oct. 2016 / Oct. 2017
UCAS Excellent Undergraduate Research-Intern Report Nov. 2015 / Apr. 2016

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