Qingyang Tan
qytan@outlook.com | 86-13051566179

EDUCATION

Computer Science, University of Chinese Academy of Sciences,
Beijing, China Sep 2014 - present

- Bachelor of Engineering expected June 2018
- GPA: 3.89/4.0, Rank: 1/68
- TOEFL: 103, GRE: 321
- Major in Computer Sciences, Minor in Biology
- First-Class Academy Scholarship (2014-2015/2015-2016)
- Concentrated on Computer Graphics and Computer Vision

Computer Science, Massachusetts Institute of Technology, US Feb 2017 - May 2017

- EECS Special Student
- GPA: 5.0/5.0

RESEARCH EXPERIENCE

Deep Generative Model of 3D Data, Supervisors: Prof. Shihong Xia, Prof. Lin Gao,
Institute of Computing Technology, Chinese Academy of Sciences (CAS) May 2016 – present

Two papers currently submitted to AAAI-2018

- Combined deep generative neural network and rotation-invariant mesh feature to generate new 3D data
- Defined new tunable parameters for network to capture most important deformations in certain dimensions
- Tested whole system ability on generalization, interpolation, embedding and exploration of synthesized new models
- Explored ways to extend Convolutional Neural Networks (CNN) from 2D images to 3D surface
- Added sparsity constraint to autoencoder framework

Machine Learning Application in Startup Success, Supervisor: Prof. Christian Catalini,
Massachusetts Institute of Technology Feb 2017 - May 2017

- Developed new code and tools to predict startup growth
- Processed large-scale dataset of startup funding and growth events
- Acquired and cleaned raw public data scraped from Internet, like LinkedIn and Github

Control System Implementation for Testing Biomedical Material,
Supervisor: Prof. Elazer Edelman, Massachusetts Institute of Technology Feb 2017 - May 2017

- Constructed the system to test Bioresorbable vascular scaffold material
- Programmed control software for the system

Ultra-sensitive Controllable Antibiotics Scavenger, Supervisor: Prof. Jiangyun Wang,
iGEM contest, Silver Medal Apr 2016 - Oct 2016

- Investigated antibiotic pollution situation in China and designed the bio-system
- Took part in biological experiments and modeling projects, including protein purifying and measurement of degradation ability
- Designed school's wikis and constructed them in HTML

SKILLS & ACTIVITIES & INTERESTS

Technical Skills

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

Social Activities

- Asian International Model United Nations, Peking University, Beijing Apr 2016
- Volunteer Science Teacher, Hua-ao School, Beijing Oct 2014 – Jan 2015

Interests

- Swimming, Science Fiction