Qingyang Tan

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EDUCATION

University of Chinese Academy of Sciences (UCAS)   **Sept 2014 - Present**

Bachelor of Engineering (Expected 2018)

Overall GPA: 3.89/4   **Subject GPA: 3.90/4**   **Class ranking: 1/68**

Massachusetts Institute of Technology (MIT)   **Feb 2017 - May 2017**

EECS Special Student

GPA: 5.0/5.0

RESEARCH AND PROJECT

Classification and Recognition of Isolated and Continuous Sign Language   **Sept 2017 - Present**

Institution: Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS)

Director: Prof. Xilin Chen, Prof. Xiujuan Chai

➢ Developed end-to-end and multi-task framework to classify sign language video

➢ Applied spatial and temporal aggregated feature to sign language video

Neural Network for 3D Mesh Data   **May 2016 – Sept 2017**

Institution: Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS)

Director: Prof. Shihong Xia, Dr. Yu-Kun Lai, Prof. Lin Gao

➢ Combined neural network and intrinsic mesh feature to analysis and generate 3D data

➢ Defined new tunable parameters for network to capture most important deformations in certain dimensions

➢ Applied graph-based Convolutional Neural Networks (CNN) on irregular 3D mesh surface

➢ Added distance-based sparsity constraint to autoencoder framework

➢ One paper accepted by *AAAI-18*

➢ One paper currently submitted to *CVPR 2018*

Machine Learning Application in Startup Success   **Feb 2017 - May 2017**

Institution: Massachusetts Institute of Technology

Director: Prof. Christian Catalini

➢ Developed code and tools to predict startup growth

➢ Processed large-scale dataset of startup funding and growth events

➢ Acquired and cleaned raw public data from website including LinkedIn and Github

Control System Implementation for Testing Biomedical Material   **Feb 2017 - May 2017**

Institution: Massachusetts Institute of Technology

Director: Prof. Elazer Edelman

➢ Constructed system to test bioresorbable vascular scaffold material

➢ Programmed control software for the testing system

Ultra-sensitive Controllable Antibiotics Scavenger   **Apr 2016 - Oct 2016**

Institution: Institute of Biophysics (IBP), Chinese Academy of Sciences (CAS)

Director: Prof. Jiangyun Wang

➢ Investigated antibiotic pollution situation in China

➢ Designed and built bio-system for degradation of antibiotics

➢ Built wiki website for the project via HTML

➢ Silver Medal for International Genetically Engineered Machine (iGEM) Competition

PUBLICATIONS

Qingyang Tan, Lin Gao, Yu-Kun Lai, and Shihong Xia. "Variational Autoencoders for Deforming 3D Mesh Models". In: *arXiv preprint arXiv: 1709.04307*. 2017. ***Submitted to CVPR 2018***

Qingyang Tan, Lin Gao, Yu-Kun Lai, Jie Yang, and Shihong Xia. "Mesh-based Autoencoders for Localized Deformation Component Analysis". In: *arXiv preprint arXiv: 1709.04304*. 2017. ***Accepted by AAAI-18***

HONORS AND AWARDS

UCAS First-Class Academy Fellowship   **Oct 2015 / Oct 2016 / Oct 2017**

Given by University of Chinese Academy of Sciences to top 5% students in each department.

UCAS Best Undergraduate Research-Intern Report   **Nov 2015 / Apr 2016**

EXTRACURRICULAR ACTIVITIES

Asian International Model United Nations, Peking University, Beijing   **Apr 2016**

Editor for UCAS Undergraduate Social Platform, UCAS, Beijing   **Sept 2015 - June 2016**

Volunteer Science Teacher, Hua-Ao School, Beijing   **Oct 2014 - Jan 2015**

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, Verilog, HTML

STANDARDIZED TEST SCORES

TOEFL iBT: 101 (R 29, L 25, S 22, W 25)   **TEST DATE: July 15, 2017**

GRE: 323 + 3.5 (V 154-65%, Q 169-96%, AW 3.5-42%)   **TEST DATE: Oct 22, 2017**

REFEREES

1.	**Name: Prof. Xilin Chen**	**Affiliation: ICT, CAS**	**Email address: xlchen@ict.ac.cn**
2.	**Name: Prof. Shihong Xia**	**Affiliation: ICT, CAS**	**Email address: xsh@ict.ac.cn**
3.	**Name: Dr. Yu-Kun Lai**	**Affiliation: Cardiff University**	**Email address: LaiY4@cardiff.ac.uk**
4.	**Name: Prof. Christian Catalini**	**Affiliation: MIT**	**Email address: catalini@mit.edu**
5.	**Name: Prof. Shimin Chen**	**Affiliation: ICT, CAS**	**Email address: chensm@ict.ac.cn**
6.	**Name: Prof. Yungang Bao**	**Affiliation: ICT, CAS**	**Email address: baoyg@ict.ac.cn**