

# QINGYANG TAN

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## 🔍 RESEARCH INTERESTS

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Computer Graphics, Computer Vision, Machine Learning

## 🎓 EDUCATION

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**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

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### 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

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### 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

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- 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

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

## MISCELLANEOUS

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- 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