



Yihang Yin

STUDENT OF SCHOOL OF COMPUTER SCIENCE AND ENGINEERING, BEIHANG UNIVERSITY

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| 🌐 somedaywilldo.github.io | 📷 Somedaywilldo | 🌐 Yihang Yin

Education

Beihang University

B.S. in Computer Science and Technology

• GPA: 3.88/4.00, Rank: 10/222

Beijing, China

Sep. 2016 - July. 2020

University of Toronto

International Exchange Student in Electrical and Computer Engineering

• Full Scholarship for Exchange Student by Beihang University and China Scholarship Council.

Toronto, Canada

Sep 1st. 2018 - Jan 1st, 2019

Projects & Publications

Bullet3 Physics Simulator (4500 Stars on GitHub)

Contributor

GitHub

Dec. 2018

- I helped to re-implement DeepMimic environment using pure pybullet, designed an inverse kinematics module for DeepMimic agent, and build the support for Human3.6M motion capture dataset. [Project Page] (GitHub ID: Somedaywilldo)

XiaoJoy: Using Locally Connected CNN to Cooperate with Human Composers. (Accepted)

NeurIPS 2018 Workshop, Machine Learning for Creativity and Design

Montreal, Canada

Dec. 2018

- Zhihao Ouyang, Yihang Yin, Kun Yan, Jian Wu, Xiaolin Hu [Project Page]

Music Generation With Local Connected Convolutional Neural Network (Submitted)

ICASSP 2019

Brighton, The United Kingdom

May. 2019

- Zhihao Ouyang, Yihang Yin, Kun Yan, Jian Wu, Xiaolin Hu, Shutao Xia [Paper Page]

Genetic expression profile-based screening of genes and pathways associated with papillary thyroid carcinoma

Oncology Letters (SCI Impact Factor : 1.664)

Spandidos Publications

Aug. 2018

- Shubin Li, Yihang Yin, Hong Yu [Paper Page]

Experience

Research, Vector Institute, University of Toronto

International Exchange Student, Advisor: Prof. Sanja Fidler

Toronto, Canada

Sep. 2018 - PRESENT

- Graphics, Computer Vision and Reinforcement Learning (working on progress). Use bullet3 physics simulator and tensorflow to learn complex dance movement. Under the instruction of Prof. Sanja Fidler, Department of Computer Science, University of Toronto.
- Machine Learning, Music (working on progress). Use machine learning to compose Classic Music. Under the instruction of Sanja Fidler and Prof. Steve Koh at Faculty of Music, University of Toronto.

NeurIPS 2018

Attendee

Montreal, Canada

Dec 3rd - Dec. 8th 2019

- Attendee of the main conference and Workshop.

Research, Tsinghua University

Research Intern, Advisor: Prof. Xiaolin Hu

Beijing, China

Jun. 2018 - PRESENT

- Machine Learning, Music. Use machine learning, deep learning, and NLP techniques for music generation task, under the supervision of Prof. Xiaolin Hu, Department of Computer Science and Technology, Tsinghua University.
- Project: XiaoJoy, an AI artwork of NeurIPS 2018 Workshop Online Gallery, Accepted, see Publications.
- Paper: Music Generation With Local Connected Convolutional Neural Network, ICASSP 2019, Under Reviewing, see Publications.

Project, Microsoft Research Asia

Beijing, China

Student Practice Space Program

Jan. 2016 - PRESENT

- **Project:** Survey and implement new deep learning algorithms on any DL framework, re-implement a state of art GANs model-Progressive Growing of GANs in Keras framework (**Project Page**). Under the instruction of Researcher Tingting Qin, System Group, Microsoft Research Asia.
- **Project:** *Microsoft/samples-for-ai*, samples for classic and state-of-art machine learning models, an open-source project on **GitHub**, **receives 364 stars (Project Page)**. Served as a contributor.

Research, China Academy of Science, Beihang University

Beijing, China

Science and Education Innovation Program

Jan. 2018 - Sep. 2018

- **Project:** *CityVision*, Use semantic segmentation to analyze massive street-views of China's biggest cities(Beijing, Shanghai and Guangzhou), use data visualization to help with designing smart-city. Under the instruction of Prof. Xiaochun Cao, Chinese Academy of Science, and Prof. Jingyuan Wang, Beihang University.

Honors & Awards

Jul. 2018 **OUTSTANDING WIN**, Microsoft Student Practice Program (**10 out of 119**) (**News Link**)

Microsoft Research
Asia, Beijing, China

Apr. 2018 **2rd Place**, Future Cup Image Scene Classification Competition.

Beijing, China

Nov. 2018 **Excellent Student Scholarship**, Beihang University (**Top 5%**)

Beijing, China

Nov. 2017 **Excellent Student Scholarship**, Beihang University (**Top 5%**)

Beijing, China

Nov. 2016 **Excellent Student Scholarship**, Beihang University (**Top 5%**)

Beijing, China

Oct. 2016 **Ranked 1.42%**, among 6426 participants, in the 9th Certified Software Professional(CSP) organized by China Computer Federation(CCF).

Beijing, China

Nov. 2015 **First Prize**, National Olympiad in Informatics Provincial (NOIP). (**Top 1%**)

Jilin, China

Nov. 2014 **First Prize**, National Olympiad in Informatics Provincial (NOIP). (**Top 1%**)

Jilin, China

Skills

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|-------------------------|---|
| Programming | Python, C/C++, JAVA, R, MATLAB, Mathematica, Assembly, Verilog, LaTeX |
| Machine Learning | Tensorflow, PyTorch, Keras |
| Web | Ruby on Rails, Jekyll, HTML5, CSS, JavaScript |
| Languages | English(TOEFL:104, GRE:325+AW3.5), Chinese |
| Talent | Piano, Guitar and Painting |

Extracurricular Activity

Beihang University Microsoft Student Club

Beijing, China

Vice President

Sep. 2017 - PRESENT

- Vice President of Beihang University Microsoft Student Club funded by Microsoft Research Asia.