

# Yunyang Li

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## EDUCATION

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SHANGHAITECH UNIVERSITY, Shanghai, China Expected Jun. 2022

*Bachelor of Engineering, Biomedical Engineering*

- Cumulative GPA: 3.76/4.0, Rank: 3/35
- GPA for 2020 – 2021 academic year: 3.92/4.0, Rank: 1/35
- Merit Student at ShanghaiTech University, 2019 – 2020
- Obtained (100/100) in Graduate Bioinformatics course, and A+ in Graduate Artificial Intelligence course, 4.0 GPA for all CS-related course

UNIVERSITY OF CALIFORNIA, Berkeley, CA Jul. 2019

*Summer Session*

YALE UNIVERSITY, New Heaven, CT Jul. 2020 – Jul 2021

*Visiting International Student Program*

## EXPERIENCE

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SHANGHAITECH UNIVERSITY, Shanghai, China 2018 – Present

*Research Internship, Gerstein Lab, Yale University June. 2021 – Present*

- Developing unsupervised deep learning methods for analyzing biosensor data for patients with mental disease/disorder

*Research Internship, IDEA Lab at School of BME Mar. 2021 – Present*

- Advised by Prof. Dinggang Shen
- Developed Deep Learning CT-image segmentation method to facilitate orthodontics. The research paper has been submitted to Nature BME.

*Research assistant, Smart Medical Information Research Center (SMIRC) Mar. 2019 – Mar. 2021*

- Advised by Prof. Jie Zheng
- Derived a Knowledge Graph Neural Network Model, namely KG4SL, for synthetic lethality prediction to help cancer treatment. The research paper has been accepted by ISMB/ECCB 2021 (Top conference in bioinformatics)

*Research assistant, Erez's lab at iHuman institute & Baylor's college of Medicine June. 2020 – Aug. 2020*

- Implemented algorithms for SNPmer-based HiFi contig assembly
- Implemented SNPmer-based ensemble methods for Hi-Fi reads error correction
- Devised machine learning algorithm to reconstruct 3D-DNA from Hi-C data.

*Teaching Assistant, UTech Academy AI Camp (Computer Vision Track) July. 2021*

- Gave lab session, and provided instructions on basic computer vision tasks using TensorFlow

*Teaching Assistant, Scripts Analysis Course from School of Creative Arts Jul. 2019 – Jan. 2020*

- Coordinated between the course instructor (Instr. Craig Sabin from USC) and students enrolled, demystified the essentiality of writing good scripts to students

*Internship, Microsoft Research Asia Expected Sep 2021.*

- Mentor: Lin Huang
- Project: To develop deep learning algorithms for genomic data

## ACTIVITIES

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SHANGHAITECH UNIVERSITY, Shanghai, China 2018 – Present

*Voice Of Tech, English Department Aug. 2019 – Present*

- Anchor, presented multiple podcasts related to English Literature, Science-fiction, and Arts & Music.

*Organ Concert at ShanghaiTech University Aug. 2019*

- Played J.S. Bach's famous compositions BWV 565 Toccata.

*Shakespeare's 'the tempest'*

*Jun. 2019*

- Acted as Gonzalo, a garrulous minister

**SKILLS AND AWARDS**

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- Languages: Chinese (Native), English (Fluent), French (Intermediate), Japanese (Intermediate)
- Computer Skills: Python (with sklearn, pytorch, numpy, TensorFlow), R, C, C++, Java, CSS, SQL
- Activities: Photography, Scripts Writing, Piano, Organ Pipe, Tennis, Badminton, Swim, Basketball