

# Yuezhi Yang

Tel: (852) 60934927 / (86) 13798556300 | Email: [yyuezhi123@gmail.com](mailto:yyuezhi123@gmail.com) | Web: <https://yyuezhi.github.io/>

## EDUCATION

### The University of Hong Kong

Sep. 2018 – Present

*Major in Computer Science, Minor in Mathematics*

- Cumulative GPA: **3.98/4.3**, Ranking: TOP 1% / 135
- English Proficiency: TOEFL-109
- Selected Courses: Graduate-level Measure Theory, Stochastic Process, Numerical Analysis, Deep Learning

### University of Illinois at Urbana-Champaign, Exchange

Dec. 2020 – May 2021

- Core Courses: Interactive Computer Graphics, Rendering, Optimization
- Cumulative GPA: **4.0/4.0**

## HONORS & AWARDS

- Dean's Honor List, School of Engineering 2019,2020,2021
- University Entrance Scholarship 2018

## RESEARCH EXPERIENCE

### Microsoft Research Asia (MSRA) Internet Graphic Group | Research Intern

May 2021 – May 2022

*Under supervision of Dr. Hao Pan, Dr. Xin Tong*

- Research on learning to discover sketch concept in parametric CAD modelling in a self-supervised, program induction manners.
- Demonstrate the design concept learning on a large scale CAD sketch dataset and show its applications for design intent interpretation and auto-completion.
- First author paper *Discovering Design Concepts for CAD Sketches* in NeuralNIPS 2022.

### The University of Hong Kong | Research Assistant

Apr. 2020 – Mar. 2021

*Under supervision of Prof. Wenping Wang*

- Research on learning-based full tooth inpainting from Panoramic Radiograph and Dental Cast
- Develop an adversarial learning schema for robust and plausible reconstruction of tooth in addition to implicit volume-based reconstruction framework.
- Conduct all the experiments and implemented the algorithm, first author submission to MICCAI 2021.
- Paper *domain generalization of Mammography Detection via Contrastive Learning* in MICCAI 2021.

## INDUSTRY INTERNSHIP

### Amazon Web Service (AWS) Shanghai AI Lab | Software Development Intern

Dec. 2020 – May 2021

- Developed **RAF**, a deep learning compiler native accelerator which optimize the performances of models defined in different frameworks on operator and computational graph level.
- Optimize operator and graph performance and reestablish computer vision models baseline under this framework

## ACADEMIC ACTIVITIES

### Introduction to Python Programing Course | Teaching Assistant

Aug. 2019 – Dec. 2019

- Led the group tutorial discussion for 15 students and review lecture contents
- Mentored them through solving Python coding problems hand by hand for two hours each week

### HKU RoboMaster team | Automation and Computer Vision Engineer

Aug. 2019 – Dec.2020

- Implemented the software controlling systems for three different types of robots on STM32 single-chip controller and developed computer vision algorithm to identify and track enemy robots
- Won 2<sup>nd</sup> prize in DJI RoboMaster 2020 Competition

## RESEARCH INTERESTS

- Computer Graphics: Geometry Modelling, 3D Shape Analysis, 3D Reconstruction, CAD Modelling