

Yuezhi Yang

[Personal Website](#) [LinkedIn](#) [Github](#)

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Education

The University of Texas at Austin

Sep. 2023 – Present

PhD student in Computer Science

- Advisor: Prof. Qixing Huang
- Research Interest: Geometry Modeling, 3D Generative Model, Computer Graphics

The University of Hong Kong

Sep. 2018 – Jun. 2023

Bachelor of Engineering in Computer Science, Minor in Mathematics

- Graduated with First Class Honor
- Cumulative GPA: 3.96/4.3, Ranking Top 1%

Publication

- Zihang He*, Jiaxin Lu*, **Yuezhi Yang***, Congyue Deng, Leonidas Guibas, Qixing Huang. An Efficient Global-2-Local Rotation Optimization Approach via Spherical Harmonics. **Symposium on geometry processing 2025** [pdf]
- **Yuezhi Yang**, Qimin Chen, Vladimir G. Kim, Siddhartha Chaudhuri, Qixing Huang, Zhiqin Chen. GenVDM: Generating Vector Displacement Maps From a Single Image. **CVPR 2025 (Highlight)** [pdf]
- **Yuezhi Yang**, Haitao Yang, George Kiyohiro Nakayama, Xiangru Huang, Leonidas Guibas, Qixing Huang. GenAnalysis: Joint Shape Analysis by Learning Man-Made Shape Generators with Deformation Regularizations. **SIGGRAPH 2025 (Journal)** [pdf]
- **Yuezhi Yang**, Hao Pan. Discovering Design Concepts for CAD Sketches. **NeurIPS 2022 (Spotlight)** [pdf]
- **Yuezhi Yang**, Zhiming Cui, Changjian Li, Wenping Wang. ToothInpaintor: Tooth Inpainting from Partial 3D Dental Model and 2D Panoramic Image. **Arxiv** [pdf]

Experience

Adobe | *Research Intern* | Mentor: Dr. Zhiqin Chen, Dr. Vladimir Kim, Dr Siddhartha Chaudhuri **May. 2024 – Nov. 2024**

- Develop a deep learning model to generate vector displacement map from single view RGB Image.
- Co-develop a 3D CNN network trained on SDS loss for geometric detailization.

Microsoft Research Asia | *Research Intern* | Mentor: Dr. Hao Pan

Jun. 2021 – May. 2022

- Propose a learning algorithm to discover modular design concept automatically 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.

Amazon Web Service (AWS) | *Software Development Engineer Intern*

Jan. 2021 – May. 2021

- Developed **RAF**, a deep learning compiler which optimize models built in different deep learning frameworks on the operator and computational graph level.
- Optimize operator performance and established baseline performance of **RAF** by testing with classic computer vision deep learning models.

The University of Hong Kong | *Research Intern* | Advisor: Prof. Wenping Wang

Apr. 2020 – Mar. 2021

- Research on learning-based full tooth inpainting reconstruction 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.

Skills

Languages: English (Fluent), Chinese(Native), Cantonese(Basic)

Programming Languages: Python, C++

Frameworks & Tools: Tensorflow, Pytorch, Unix/Linux, Latex, Git, Blender, CGAL

Awards

- Dean's Honor List, School of Engineering HKU (Top 5%), 2019-2023
- 2nd prize in DJI RoboMaster 2020 Competition
- HKU Entrance Scholarship, 2018 (Top 5%)