

# **Yuezhi Yang**

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## **Education**

### **The University of Texas at Austin**

*PhD Student in Computer Science*

Sep. 2023 – Present

- Advisor: Prof. Qixing Huang

- Research Interests: Geometry Modeling, Physical Simulation, 3D Generation

### **The University of Hong Kong**

June 2023

*Bachelor of Engineering in Computer Science, Minor in Mathematics*

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

## **Publications**

- **Yuezhi Yang**, Qixing Huang, Mikaela Angelina Uy\*, Nicholas Sharp\*. **Learning Convex Decomposition via Feature Fields.** In Submission [pdf]
- Qimin Chen, **Yuezhi Yang**, Yifan Wang, Vladimir G. Kim, Siddhartha Chaudhuri, Hao Zhang, Zhiqin Chen. **ART-DECO: Arbitrary Text Guidance for 3D Detailizer Construction.** SIGGRAPH Asia 2025 (Conference) [pdf]
- Zihang He\*, **Yuezhi Yang**\*, Congyue Deng, Jiaxin Lu, 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**

### **NVIDIA | Research Intern** | Mentors: Nicholas Sharp, Mikaela Angelina Uy

May. 2025 – Present

- Developing feed-forward models for open-world 3D shape convex decomposition and primitive abstraction with controllable granularity.

### **Adobe | Research Intern** | Mentors: Zhiqin Chen, Vladimir Kim, Siddhartha Chaudhuri

May. 2024 – Nov. 2024

- Developed neural models to generate vector displacement maps from single-view RGB images.
- Co-developed a feed-forward network trained with SDS loss for geometric detailization.

### **Microsoft Research Asia | Research Intern** | Mentor: Hao Pan

Jun. 2021 – May. 2022

- Designed a self-supervised learning algorithm to automatically discover modular design concepts in parametric CAD models, enabling design intent interpretation and CAD auto-completion.

### **Amazon Web Services (AWS) | Software Development Engineer Intern** | Manager: Yizhi Liu

Jan. 2021 – May. 2021

- Built and optimized **RAF**, a deep learning compiler accelerating computation at operator and graph level.

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

Apr. 2020 – Mar. 2021

- Conducted research on learning-based full 3D tooth inpainting from panoramic radiographs and dental casts.

## **Skills**

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

**Programming Languages:** Python, C++, MATLAB

**Frameworks & Tools:** TensorFlow, PyTorch, Unix/Linux, LaTeX, Blender, CGAL

## **Awards**

- Dean's Honor List, School of Engineering HKU (Top 5%), 2019–2023
- 2<sup>nd</sup> Prize, DJI RoboMaster 2020 Competition
- HKU Entrance Scholarship, 2018 (Top 2%)