

# Yuezhi Yang

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## Education

### The University of Texas at Austin

Sep. 2023 – Present

*PhD Student in Computer Science*

- 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%)