

Yuezhi Yang

[Personal Website](#) [LinkedIn](#) [Google Scholar](#)

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Education

The University of Texas at Austin

Sep. 2023 – Present

Ph.D. in Computer Science

- Advisor: Prof. Qixing Huang
- Research Interests: Computer Visions, Geometric Modeling, Physical Simulation, and World Models

The University of Hong Kong

Jun. 2023

Bachelor of Engineering in Computer Science, Minor in Mathematics

- First-Class Honors; GPA: 3.96/4.3; Top 1%

Publications & Preprints

* Equal contribution.

Learning Convex Decomposition via Feature Fields

Yuezhi Yang, Qixing Huang, Mikaela Angelina Uy*, Nicholas Sharp*

CVPR 2026 (Oral, 141/16,092 submissions, top $\approx 1\%$) [pdf] [website]

GenVDM: Generating Vector Displacement Maps From a Single Image

Yuezhi Yang, Qimin Chen, Vladimir G. Kim, Siddhartha Chaudhuri, Qixing Huang, Zhiqin Chen

CVPR 2025 (Highlight, 387/13,008 submissions, top $\approx 3.0\%$) [pdf] [website]

GenAnalysis: Joint Shape Analysis by Learning Man-Made Shape Generators with Deformation Regularizations

Yuezhi Yang, Haitao Yang, George Kiyohiro Nakayama, Xiangru Huang, Leonidas Guibas, Qixing Huang

ACM Transactions on Graphics (SIGGRAPH) 2025 [pdf] [website]

Discovering Design Concepts for CAD Sketches

Yuezhi Yang, Hao Pan

NeurIPS 2022 (Spotlight, 541/10,411 submissions, top $\approx 5.2\%$) [pdf] [website]

ToothInpaintor: Tooth Inpainting from Partial 3D Dental Model and 2D Panoramic Image

Yuezhi Yang, Zhiming Cui, Changjian Li, Wenping Wang

arXiv [pdf]

GenSP: Consistent Spherical Parameterization via Learning Shape Generative Models

Sai Karthikey Pentapati, Shashank Gupta, Rajesh Sureddi, Yuezhi Yang, Alan C. Bovik, Qixing Huang

ECCV 2026 [pdf]

An Efficient Global-2-Local Rotation Optimization Approach via Spherical Harmonics

Zihang He*, Yuezhi Yang*, Congyue Deng, Jiaxin Lu, Leonidas Guibas, Qixing Huang

Symposium on Geometry Processing 2025 [pdf]

ART-DECO: Arbitrary Text Guidance for 3D Detailizer Construction

Qimin Chen, Yuezhi Yang, Yifan Wang, Vladimir G. Kim, Siddhartha Chaudhuri, Hao Zhang, Zhiqin Chen

SIGGRAPH Asia 2025 (Conference) [pdf] [website]

Domain Generalization for Mammography Detection via Multi-style and Multi-view Contrastive Learning

Zheren Li, ..., Yuezhi Yang, ..., Jie-Zhi Cheng

MICCAI 2021 [pdf]

Experience

Roblox | *Research Intern* | Mentors: Chrystiano Araújo, Hsueh-Ti Derek Liu, Yizhak Ben-Shabat

May 2026 – Present

- Developing simulation- and animation-ready 3D generative models.

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

May 2025 – Jan. 2026

- Developed feed-forward models for open-world 3D shape convex decomposition 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 an 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 that accelerates computation at both the operator and graph levels.
- 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.

Teaching

- **Teaching Assistant:** CS 395T 3D Deep Learning (UT Austin), Fall 2025 and Fall 2026. Instructor: Qixing Huang
- **Teaching Assistant:** ENGG 1330 Computer Programming (HKU), Fall 2020. Instructor: Chun Kit Chui

Professional Service

- **Reviewer:** TOG, TVCG, CVPR (2024–2026), ECCV (2024, 2026), ICCV (2025), NeurIPS (2023–2026), ICLR (2023–2026), SIGGRAPH (2026)

Skills

Programming Languages: Python, C++, MATLAB
Frameworks & Tools: PyTorch, TensorFlow, CUDA, CGAL, Blender, Unix/Linux, LaTeX
Languages: Chinese (Native), English (Fluent), Cantonese (Basic)

Awards

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