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 Interests: Geometry Modeling, Physics-based 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

- 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: Nicolas 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**
- Developed and optimized **RAF**, a deep learning compiler that enhances performance across multiple frameworks at the operator and computational 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.

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
- 2nd Prize, DJI RoboMaster 2020 Competition
- HKU Entrance Scholarship, 2018 (Top 5%)