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

- **Yuezhi Yang**, Qimin Chen, Vladimir G. Kim, Siddhartha Chaudhuri, Qixing Huang, Zhiqin Chen. GenVDM: Generating Vector Displacement Maps From a Single Image. **Arxiv coming soon**

- **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. **Arxiv** [pdf]

- **Yuezhi Yang**, Hao Pan. Discovering Design Concepts for CAD Sketches. **In 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%)