Jing Li

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Research Interest: 3D Generative Models, Multi-Modal Large Language Models

Education

- **University of Science and Technology of China** — Hefei, China
  Ph.D. Student in Computational Mathematics — *Sep. 2021 - Present*
  Supervisor: *Prof. Falai Chen*
- **Southwest Jiaotong University** — Chengdu, China
  Bachelor of Science in Mathematics and Applied Mathematics — *Sep. 2017 - Jun. 2021*
  Rank: *1/67* **CET6:** *523*

Relevant coursework/ skills

- **Mathematics and Computer Science**: Probability theory and mathematical statistics, Numerical analysis, Digital geometry processing, Optimization theory, Theoretical machine learning, Data structures and algorithms.
- **Programming Skills**: Python, C++, Matlab, Linux.

Honors and Awards

- Chiang Chen Scholarship - 2023
- Outstanding University Graduate of Sichuan Province -2021
- National Scholarship for Undergraduate Students - 2020

Research Projects

- **Researches on Bézier Surfaces in Polygonal Domains** — *Oct. 2020 - May. 2021*
  Computational Geometry | Generalized Barycentric Coordinates | Matlab
- **Mesh Generation of Parametric Surfaces** — *Sep. 2021 - Jan. 2023*
  Isotropic(Anisotropic) Triangular Mesh | Quadrilateral Mesh | C++
- **3D Segmentation of Cell Nucleus Based on Implicit Neural Representation** — *Feb. 2023 - Oct. 2023*
  Coordinate-based Neural Representation | Medical Imaging | Fourier Transform | Python
- **CAD Generation and Editing via Multi-modal Large Language Models** — *Jan. 2025 - Present*
  Multi-modal Learning | CAD Modeling | Text-to-Image-to-CAD | Python

Publications

- **New similarity and distance measures of Pythagorean fuzzy sets and its application to selection of advertising platforms**
  Jing Li, Lingling Wen, Guiwu Wei, Jiang Wu, Cun Wei
  Journal of Intelligent & Fuzzy Systems, 40(3), 2021.
- **iShapEditing: Intelligent Shape Editing with Diffusion Models**
  Jing Li, Juyong Zhang, Falai Chen
  Computer Graphics Forum (Proc. Pacific Graphics), 43(7), 2024.
- **DTGBrepGen: A Novel B-rep Generative Model through Decoupling Topology and Geometry**
  Jing Li, Yihang Fu, Falai Chen
  IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025.