Zhouyuan Chen

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Education

Sep. 2023 – Current
New York University, New York, NY
Master of Science(M.Sc.), Computer Science
GPA:3.677

Sep. 2019 – May 2023
Zhejiang University of Technology, Hangzhou, China
Bachelor of Engineering(B.E.), Software Engineering
GPA:88.6/100

Research Interests

Computer Graphics, Geometry Processing, Numerical Simulation

Research Experience

Sep. 2023 – Current
New York University, New York, NY
Research Assistant at Geometric Computing Lab
Advisor: Daniele Panozzo

- Hybrid Element Shell(ongoing project)
- Image Simulation: Designed a pipeline to automatic the simulation.
- Topological Offsets: Designed a robust offsets generation algorithm and contributed to the Wildmeshing Toolkit C++ library.

Aug. 2021 – Oct. 2022
Zhejiang University of Technology, Hangzhou, China
Research Assistant at Institute of Digital Media Technology
Advisor: Jiazhou Chen

- Undercut Model Generation: Designed an algorithm to reconstruct the undercut model of human teeth.
- Collision Detection and Visualization: Designed an algorithm to visualize the collision relationship between different objects.

Publications & Preprints

Submitted for Publication

W1. Zint, D., **Zhouyuan Chen**, Zhu, Y., Zorin, D., Schneider, T. & Panozzo, D. *Topological Offsets* 2024. arXiv: 2407.07725 [cs.CG]. https://arxiv.org/abs/2407.07725.

Teaching Experience

New York University

2024	Grader, Intro to Computer Science(CSCI-UA 101-10)
2024	Teaching Assistant, Geometric Modeling(CSCI-GA.3033-018)

Tools & Software

3D Slicer: Image Simulator

Software that generates simulation-ready mesh from medial images with boundary conditions.

Technical Skills

Programming Language: C++, C, Python, Java, MATLAB
Languages: Chinese (native), English (fluent)

Last updated: October 21, 2024