Zhouyuan Chen

zc2952@nyu | zhouyuan-chen.github.io | Jersey City, NJ

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:88.3/100

Research Interests

Computer Graphics, Geometry Processing, Numerical Simulation

Research Experience

Jun. 2023 – Current	New York University, New York, NY Research Assistant at Geometric Computing Lab Advisor: Daniele Panozzo · Designed a pipeline to automatic the simulation. · Analyzed the simulation results and experimented with PolyFEM for different shell models. · 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 · Designed and implemented an algorithm to reconstruct the undercut model of human teeth. · Designed and implemented an algorithm to visualize the collision relationship between different objects.

Publications & Preprints & On-Going Projects

On-Going Projects

Hybrid Element Shell Simulation

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.

Tools & Software

Medical Image Simulator

Website | Manual

Virtual Dental Medical Software: Virtual Gums

Demo1 | Demo2

Teaching Experience

New York University

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

Awards & Honors

2022	Academic Excellence Scholarship, ZJUT
2021	Academic Excellence Scholarship, ZJUT
2020	Academic Excellence Scholarship, ZJUT

Technical Skills

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

Last updated: October 9, 2024