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:3.677/4

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

Jun. 2023 – Current New York University, New York, NY

Research Assistant at Geometric Computing Lab

Advisor: Daniele Panozzo

• Hybrid Element Shell(ongoing project): Developing an algorithm for building prism-based or prism-dominant shells.

building prism-based or prism-dominant shells.

• Image Simulation: Designed a pipeline to automate biomechanism simulations and implemented a plugin to streamline workflows.

• Topological Offsets: Designed a robust offsets generation algorithm

and contributed to the Wildmeshing Toolkit C++ library.

Aug. 2021 – May 2023 Zhejiang University of Technology, Hangzhou, China

Research Assistant at Institute of Digital Media Technology

Advisor: Jiazhou Chen

• Undercut Model Generation: Designed and implemented an algorithm

to reconstruct the undercut model of human teeth.

• Collision Detection and Visualization: Designed and implemented algorithms to visualize the collision 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)

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.

Hansfive Company Software: Virtual Gums

Software that assists dental staff in constructing tooth models.

Awards & Honors

2020-2022 Academic Excellence Scholarship, ZJUT

Technical Skills

Programming Language: C++, C, Python, Java, MATLAB

Languages: Chinese (native), English (fluent)

References

Daniele Panozzo Jiazhou Chen

New York University Zhejiang University of Technology

Teseo Schneider

University of Victoria Phone: +1 250-472-5837 Email: teseo@uvic.ca

Last updated: October 29, 2024