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

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. • 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)
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.

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

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