Zhouyuan Chen

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Education

Sep. 2023 – May 2025	New York University, New York, NY, United States Master of Science(M.Sc.), Computer Science GPA:3.778/4
Sep. 2019 – Jun. 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, Discrete Differential Geometry

Research Experience

Aug. 2025 – Present	Inria, Nancy, Grand Est, France Research Engineer at Pixel Team Advisor: Etienne Corman • Developing an algorithm for quad mesh generation on curved surfaces using medial axis and geodesic distance computations.
Sep. 2023 – May 2025	New York University, New York, NY, United States Research Assistant at Geometric Computing Lab Advisor: Daniele Panozzo • Designed a pipeline to automate biomechanical simulations and implemented a plugin to streamline workflows. • Designed and implemented an offsets generation algorithm and contributed to the Wildmeshing Toolkit C++ library.
Sep. 2021 – May 2023	Zhejiang University of Technology, Hangzhou, China Research Assistant at Institute of Digital Media Technology Advisor: Jiazhou Chen • Implemented several broad-phase collision detection algorithms and integrated them into medical software while also developing a custom algorithm to visualize collisions between different objects. • Designed and implemented a custom algorithm to reconstruct the undercut model of human teeth.

Publications & Preprints

Peer-reviewed Journal Articles

J1. Zint, D., **Zhouyuan Chen**, Zhu, Y., Zorin, D., Schneider, T. & Panozzo, D. Topological Offsets. *ACM Transaction on Graphics(SIGGRAPH), 2025.*

Teaching Experience

New York University

Teaching Assistant
Geometric Modeling(CSCI-GA.3033-018)	Spring 2024, Spring 2025

Grader
Intro to Computer Science(CSCI-UA.101)	Spring 2024

Awards & Honors

2020-2022   Academic Excellence Scholarship, Zhejiang University of Technology

Technical Skills

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

References

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