Zhen Chen

CONTACT
INFORMATION

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https://csyzzkdcz.github.io/

RESEARCH
INTERESTS

My research is majorly related to thin Shell simulation and inverse design. Currently, I am working on proposing a novel thin shell model to achieve fast and accurate results. I also explored the possibility to combine the cloth simulation with deep neutral networks.

EDUCATION

The University of Texas at Austin   Austin, Texas
Ph.D. in Computer Science   2018 – Present
Supervisor: Prof. Etienne Vouga
University of Science and Technology of China   Anhui, China
Bachelor in Mathematics   2014 – 2018
Mentors: Prof. Ligang Liu

PUBLICATIONS

[1] **Zhen Chen**, Daniele Panozzo, Jeremie Dumas. Half-Space Power Diagrams and Discrete Surface Offsets. *IEEE Transaction on Visualization and Computer Graphics, 2019.*

[2] **Zhen Chen**, Hsiao-yu Chen, Danny Kaufman, Mélina Skouras, Etienne Vouga. Fine Wrinkling on Coarsely-Meshed Thin Shells. *ACM Transcations on Graphics, 2021.*

TALKS

Half-Space Power Diagrams and Discrete Surface Offsets (with Jeremie Dumas)
Symposium on Geometry Processing (SGP)   2020
Fine Wrinkling on Coarsely-Meshed Thin Shells (to appear)
SIGGRAPH   2022

EXPERIENCE

Research Intern, Adobe
Mentor: Danny Kaufman   Summer 2021
Project description: Design a time integrator which achieves a trade-off between amplitude distortion (dissipation) and period distortion (dispersion).
Teaching assistant, Department of Computer Science (UT Austin)
CS 303E: Elements of Computers and Programming   Fall 2018
Teaching assistant, Department of Mathematics (USTC)
Complex Analysis   Fall 2017
Mathematical Analysis   Spring 2017
Student intern, Geometric Computing Lab (NYU)
Host: Prof. Daniele Panozzo   Summer 2017
Project description: Explored the algorithm to compute the offset surface of 3D meshes.

HONORS AND

Baosteel ScholarShip(Top 2%)   2017

Awards	National Scholarship (Top 1% nationwide)	2016
	Outstanding Freshman Scholarship (Top 1%)	2014

Language
and Skills

Programming: C/C++, Python, Matlab
Software: Houdini, Adobe Premiere
Language: Chinese(native), English(fluent)