# Zhan ZHANG

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Address: 2306 Academic Surge, University of California, Davis

## Education

**University of California, Davis** — Sep 2021-
PhD, Computer Science

**University of Science and Technology of China (USTC)** — Sep 2017- Jul 2021
B.S with Honors, Applied Mathematics; B.S, Computer Science

## Publications

- **Computational Design of Flexible Planar Microstructures** — 2023
  **Zhan Zhang**, Christopher Brandt, Jean Jouve, Yue Wang, Tian Chen, Mark Pauly, Julian Panetta
  *ACM Transactions on Graphics (SIGGRPAH Asia) 2023*

- **Modeling and Fabrication with Specified Discrete Equivalence Classes** — 2021
  Zhong-Yuan Liu, **Zhan Zhang**, Di Zhang, Chunyang Ye, Ligang Liu, Xiao-Ming Fu
  *ACM Transactions on Graphics (SIGGRPAH) 2021*

- **Gaze-Contingent Retinal Speckle Suppression for Perceptually-Matched Foveated Holographic Displays** — 2021
  Praneeth Chakravarthula, **Zhan Zhang**, Okan Tursun, Piotr Didyk, Qi Sun, Henry Fuchs
  *IEEE Transactions on Visualization and Computer Graphics (Proceedings of ISMAR) 2021*

## Research Experiences

**Computational Fabrication Lab, University of California, Davis** — Sep 2021-
*PhD Candidate*
Advisor: Prof. Julian Panetta and Prof. Joseph Teran
- Work on computational design of elastic metamaterials for large deformation
- Developed the first complete solution for designing microstructures over large deformation without collision

**Tandon School of Engineering, New York University (NYU)** — Jul 2020- Oct 2020
*Research Intern*
Advisor: Prof. Qi Sun
- Proposed a method for the reduction of the perceived speckle noise by taking foveal and peripheral vision characteristics of the HVS into account in our perceptually-aware holographic projections
- Implement light propagation framework in PyTorch

**Graphics & Geometric Computing Laboratory, USTC** — Sep 2019- May 2020
*Undergraduate Research Fellow*
Advisor: Prof. Xiaoming Fu and Prof. Ligang Liu
- Achieved a method of remeshing by local equidistant embedded anisotropic surface equivalence mesh
- Developed a geometric algorithm for infinite triangle distance norm

## Awards & Scholarship

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| GGCS Spring Research Fellowship | 2023 |
| International Student Research Award | 2021 |
| "Outstanding Student" Scholarship in USTC | 2017, 2019 |

## Leadership & Activities

**Student Union of the School of Gifted Young, USTC | Officer** — Sep 2017- Sep 2018
**Student Union of USTC | Officer** — Sep 2017- Sep 2018

## Skills

- Proficient in language: C++, Python
- Proficient in software: LaTeX, MATLAB, Houdini