**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

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