

# YINTONG SHANG

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## EDUCATION

University of Utah 2022.8-Present  
*PhD in Kahlert School of Computing* Expected in 2027.5

University of Science and Technology of China (USTC) 2018.9-2022.6  
*Bachelor of Engineering in Electronic Science and Technology*

GPA: 3.61/4.3

TOEFL: 106 (R:30 L:28 S:23 W:25)

GRE: V:158 (79%) Q:169 (94%) W:4.0 (54%)

## PUBLICATIONS

**PIE-NeRF: Physics-based Interactive Elastodynamics with NeRF** [arXiv](#) 2023.11  
Yutao Feng\*, Yintong Shang\*, Xuan Li, Tianjia Shao, Chenfanfu Jiang, Yin Yang

## RESEARCH

**Physics-based NeRF Scene Deformation** [project page](#) 2023.5-2023.11

Advisor: Prof. **Yin Yang**, Kahlert School of Computing, The University of Utah

Coworker: **Yutao Feng**, The University of Utah & Zhejiang University

- Realize physics-based meshless elastic deformation to manipulate the neural radiance field.

**Resolving Mesh Self-Intersections with Triangle Collisions** 2022.8-2023.4

Advisor: Prof. **Yin Yang**, Kahlert School of Computing, The University of Utah

- Implement the Incremental Potential Contact method solved with the projected Newton.

**Precise Calibration and Modeling of Pressure-resistive Textile Matrix** 2020.3-2021.9

Advisor: Prof. **Jingyuan Cheng**, School of Computer Science and Technology, USTC

- Built a mathematical model and a finite-element model to explore the nonlinear and hysteresis behavior of the pressure-resistive textile.

## HONORS

- ◇ Outstanding Student Scholarship of USTC (Silver, Top 13%) 2021.10
- ◇ Outstanding Student Scholarship of USTC (Bronze, Top 33%) 2020.11
- ◇ Win the first prize in Electromagnetics Course Paper Competition (**Top 1%**) 2019.12
- ◇ Endeavor Student Scholarship 2019.12
- ◇ 2018 Excellent New Student Award (**Top 20%**) 2018.12
- ◇ Talent Student Gold Scholarship of USTC, *Grade 1* (**Top 3%**) 2018.12
- ◇ Talent Program in Information Science and Technology 2018.9-2022.6

## SKILLS

- C++ (10000 lines)
- Python (3000 lines)
- C# (1200 lines)
- MATLAB (500 lines)

## ACTIVITIES

- ◇ Fund and write letters to a teenage student to support her financially and spiritually. 2020
- ◇ Volunteer to assist heirs of intangible cultural heritage with on-campus exhibitions. 2019
- ◇ Volunteer to tutor primary students and perform scientific experiments for them. 2018