Chenyu Shen

PERSONAL INFORMATION

Birth Date: Feb. 28, 2001

Email: shenchenyu@mail.ustc.edu.cn

EDUCATION

University of Science and Technology of China

- M.S., Mechanics, August, 2022~June, 2025 (expected).
- B.S., Computational Mathematics (**the School of the Gifted Young**), August, 2018~June, 2022.

RESEARCH EXPERIENCE

From August, 2022, I study the **mechanical behavior of metamaterials**, including:

- Modeling for discrete lattices as a continuum based on higher-order elasticity, including various 2D lattices with different symmetric conditions.
- Determination of the overall effective elastic moduli under micropolar elasticity via macroscopic averaging methods (e.g. Hill-Mandel equivalent principle).
- Theoretical and numerical analysis of the bending behavior for 2D chiral lattices.

TEACHING EXPERIENCE

University of Science and Technology of China (TA)

- 2023 Fall   Calculus I

PROJECT EXPERIENCE

- March, 2020~April, 2021,   Neural Network for classification of two cases,
- May, 2020~June, 2021，   Loop subdivision wavelets.

PUBLICATIONS

- Linghui He and **Chenyu Shen**, *Micropolar modeling for bending shape of 2D lattices: the case of equilateral triangular cell structure*, Extreme Mech. Lett., Under Review, 2024
- **Chenyu Shen** and Linghui He, *Micropolar modeling for bending shape of 2D chiral lattices: the case of hexa-chiral V-shaped cell structure*, In preparation.

HONORS AND AWARDS

- 2022~2024,   First Prize,   Academic Gradate Scholarship.
- 2018,   Silver Prize, Outstanding Undergraduate Scholarship.

SKILLS

Programming Language:

- Skilled in Python.
- Be familiar with C++ and MATLAB.
- Basic competence in operating Linux.

Simulation software:

- Proficient to use Abaqus.
- Fundamental ability to utilize SolidWorks.

Others

- Have an expertise in Hardware, covering ranges from PC and network device to server, and encompassing types of components from CPUs, GPUs to storage devices.