

Gengyuan Liu

University of Science and Technology of China, Hefei, Anhui 230026, P.R.China

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Education

University of Science and Technology of China - Dept of Modern Mechanics

Hefei, China

M.E. DEGREE IN ENERGY AND POWER

2021 - 2024

- Supervisor: Prof. Haiyi Liang
- Average Scores: 88.24 out of 100

HoHai University - Dept of Engineering Mechanics

Nanjing, China

B.E. UNDERGRADUATE DEGREE IN ENGINEERING MECHANICS

2017 - 2021

- Undergrad Research Advisor: Dr. Qinghui Liu
- Average Scores: 83.59 out of 100

Research Experience

University of Science and Technology of China - School of Engineering Science

Hefei, China

ADVISOR: DR. YUCAI HU, SUPERVISOR: DR. HAIYI LIANG

May. 2022 - Present

- Research on the inverse design on the non-flatfoldable origami
- Develop a method to design a novel kind of origami structure, fabricate paper model by CAD and laser cutting machine

University of Science and Technology of China - School of Engineering Science

Hefei, China

SUPERVISOR: DR. HAIYI LIANG

Sep. 2021

- Project: Chemical synthesis and multi-scale mechanical modeling of high toughness hydrogels
- Use Abaqus to simulate the deform under compress and fabricate beams and thin films of PEGDA by DLP method

Hohai University - School of Mechanics and Materials

Nanjing, China

SUPERVISOR: DR. QINGHUI LIU

June. 2021

- Bachelor's Thesis: "Study on Stress Analysis and Improvement Measures of Adhesively Bonded Joints"
- Use Ansys Workbench to simulate the stress distribution on the bonded joints and propose some optimized measurements

Hohai University - School of Mechanics and Materials

Nanjing, China

ADVISOR: DR. FENG XUE

May. 2019

- Project: Phase field simulation of flux vortex motion
- Develop the relation curves between current and electrical field under different geometry and physics parameters by COMSOL Multiphysics

Publications

IN PREP

G.Y. Liu, Y.C. Hu, H.Y. Liang, *Design of Cylindrical and Axisymmetric Origami Self-locking Structures*

Honors & Awards

2022 **Second-class Graduate Scholarship**, University of Science and Technology of China

2021 **First-class Graduate Scholarship**, University of Science and Technology of China

2020 **First Prize in Individual Competition**, 2nd International Engineering Mechanics Contest (Asian Region)

First Prize in Group Competition, 2nd International Engineering Mechanics Contest (Asian Region)

Second Prize, XVI International Engineering Mechanics Contest

Skills

Languages Skills: English (IELTS: overall 6.5), Chinese (native)

Computers Skills: MATLAB, FORTRAN, Python, C, FEM Softwares