



2022「中技社科技獎學金」

2022 CTCI Foundation Science and Technology Scholarship

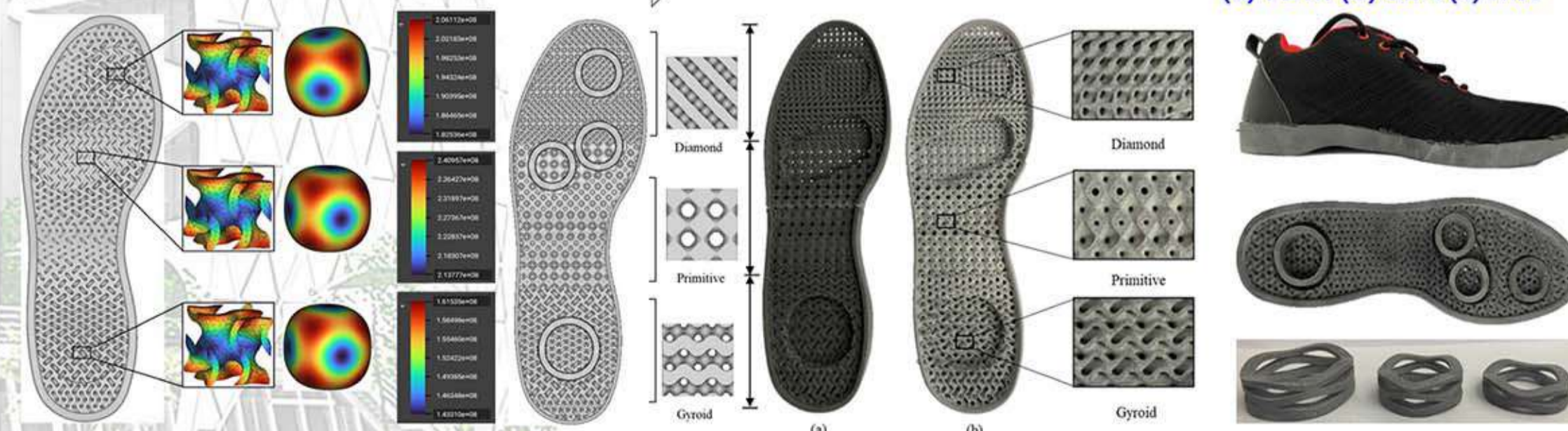
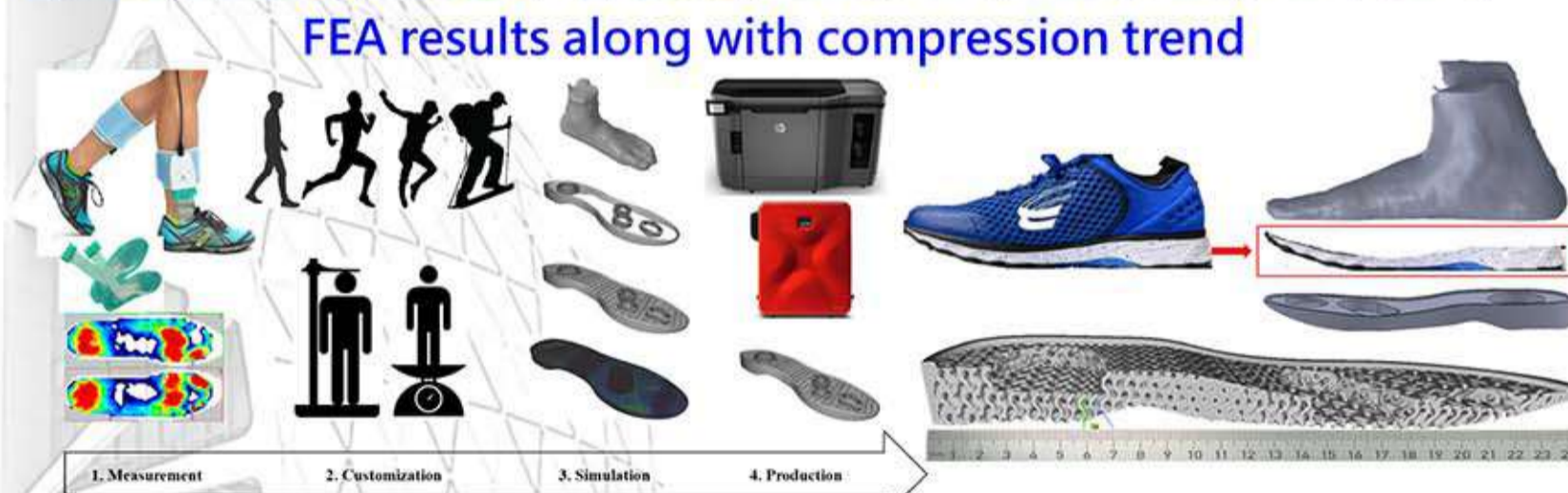
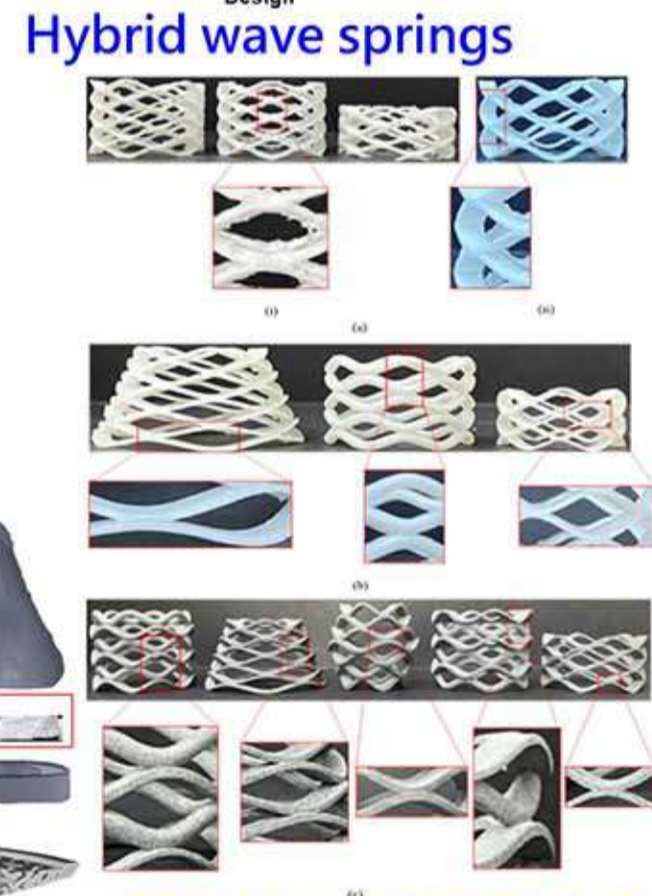
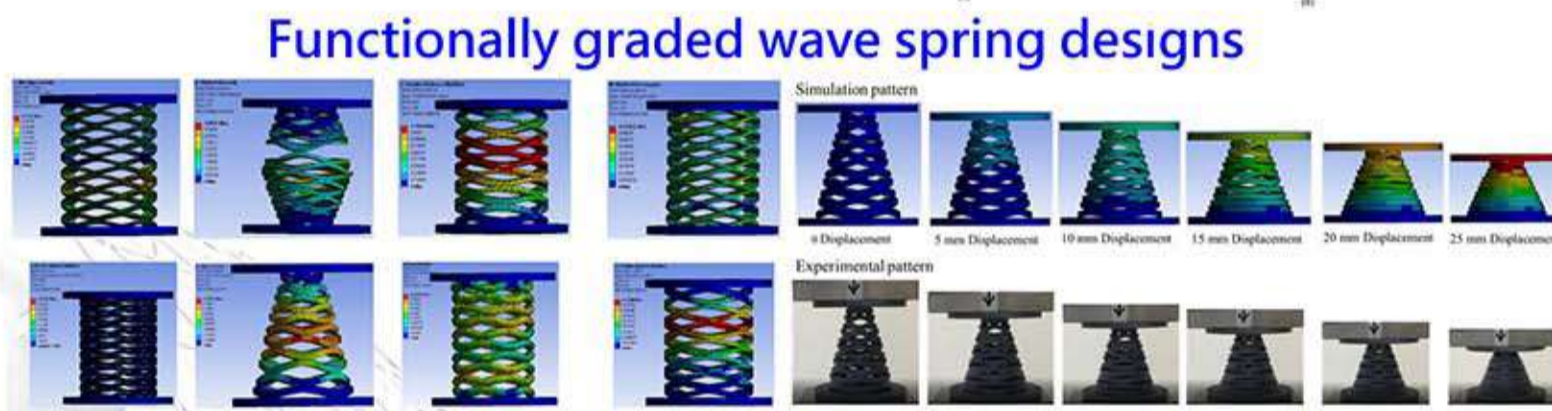
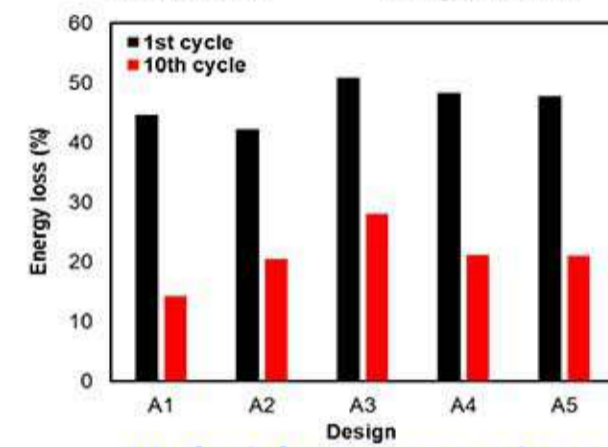
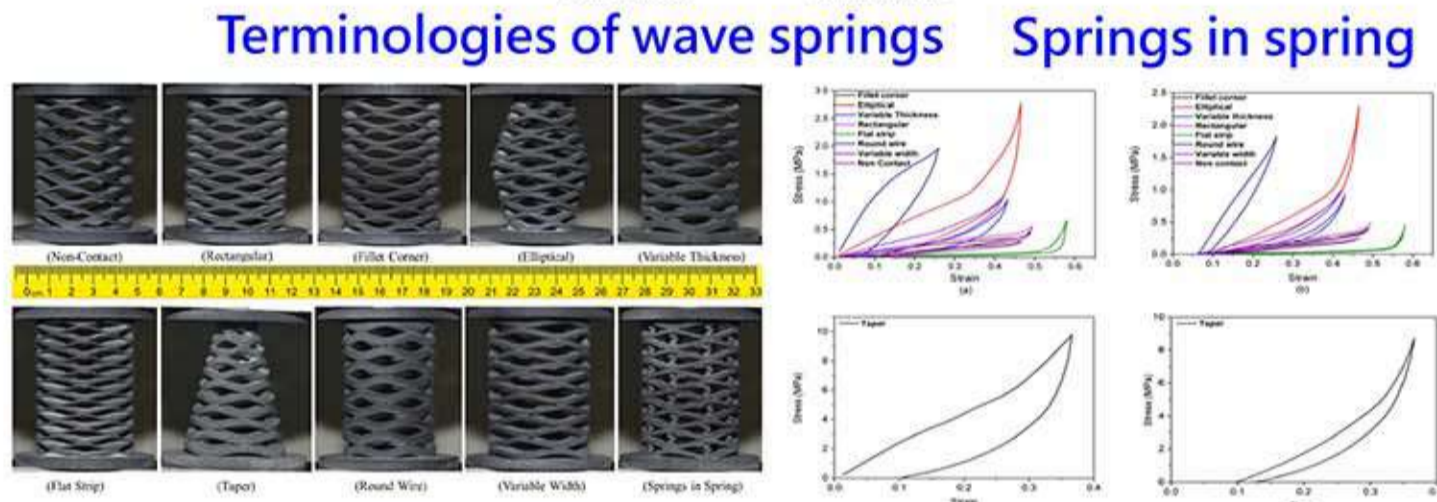
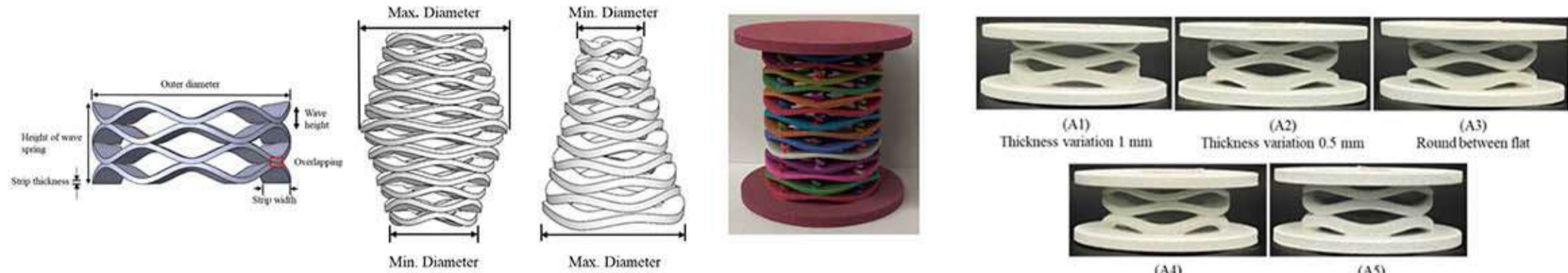
境外生研究獎學金

Research Scholarship for International Graduate Students

DESIGN, OPTIMIZATION, AND ANALYSIS OF WAVE SPRINGS USING HIGH-SPEED ADDITIVE MANUFACTURING

PhD Student: Muhammad Rizwan ul Haq, Advisor: Dist. Prof. Jeng-Ywan Jeng
Mechanical Engineering Department, National Taiwan University of Science & Technology (NTUST)

This study aims to design and additive manufacture (AM) contact and non-contact wave springs along with complex designs having geometric as well as dimensional variations and analyzed for different mechanical properties. All designs were printed using MultiJet fusion technology (HP, 4200) which is a hybrid and fast process as compared to other AM techniques. Both experimental and simulation-based studies were carried out to investigate and validate the mechanical properties of wave springs.



* Taiwan and US patent Awaiting