



Ruoyu Feng

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WORK EXPERIENCE

Research Assistant

Department of Engineering Mechanics, School of Civil Engineering, Shandong University [01/08/2023 – Current]

City: Jinan City **Country:** China

Developing a game-based virtual reality software, to visualize musculoskeletal models for surgical education.

EDUCATION AND TRAINING

PhD in Mechanics

Department of Engineering Mechanics, School of Aerospace Engineering, Tsinghua University [01/09/2018 – 21/06/2023]

City: Beijing Country: China

Bachelor in Engineering Mechanics

Department of Engineering Mechanics, School of Civil Engineering, Shandong University [01/09/2014 – 30/06/2018]

City: Jinan City
Country: China

LANGUAGE SKILLS

Mother tongue(s): Chinese

Other language(s):

English German

LISTENING C1 READING C2 WRITING C1 LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1 SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Unreal Engine / AutoCad 2D -3D / Microsoft Office (Outlook, Excel, Word, PowerPoint) / Corel (CorelDRAW, Corel VideoStudio) / Matlab

HONOURS AND AWARDS

Second prize scholarship for comprehensive performance

Tsinghua University [11/2022]

Scholarship for character development

Tsinghua University [11/2022]

'Xu Zhilun' national award for outstanding students in mechanics

Education Work Committee of the Chinese Society of Theoretical and Applied Mechanics [09/2018]

First prize in national innovation and entrepreneurship training program for university students

Shandong University [06/2017]

First prize scholarship for outstanding students

Shandong University [12/2015]

PUBLICATIONS

A virtual reality platform for musculoskeletal model visualization

[2024]

RY Feng, SW Wang, and Y Chen, Chinese Patent, submitted.

A software copyright patent was also submitted. A paper manuscript has been written. The video in the link shows one of the model.

Link: https://www.youtube.com/watch?v=Hfam03tQmEg

Magworm: a biomimetic magnet embedded worm-like soft robot

[2021]

HQ Niu, RY Feng, and YW Xie, et al., Soft Robotics, 8, pp. 507-518, 2021.

This paper presents a worm-like crawling robot. The video in the link shows its function of cleaning pipes.

Link: https://youtu.be/AhgVcrhQqrA?si=vBDrqAN3fKPQYSKq

Practice of soft robotics and innovation education

[2020]

RY Feng, L Chen, and HZ Zhang, et al., Mechanics in Engineering, 42, pp. 347-350, 2020.

This Chinese paper summarizes the teaching experience as a teaching assistant, when I led undergraduate students to learn about soft robotics.

Kinetic and dynamic modeling of single actuator wave-like robot

[2019]

RY Feng, P Zhang, and JF Li, et al., Robotica, 37, pp. 1971-1986, 2019.

This paper presents the modeling of a car-like crawling robot. The video in the link shows its crawling.

Link: https://youtu.be/Co3RpMakEhs?si=LkdGST1flPRdk_h7

<u>Dynamic response of post-tensioned rocking wall-moment frames under near-fault ground</u> excitation

[2018]

RY Feng, Y Chen, and CZ Cui, Earthquakes and Structures, 15, pp. 243-251, 2018.

Stress analysis of prestressed concrete cylinder pipe with plastic coated steel liner

[2016]

RY Feng, Y Chen, and HP Lei, Mechanics in Engineering, 38, pp. 158-163, 2016.

This Chinese paper studies a novel water pipe. The video in the link shows its manufacture.

Link: https://youtu.be/ B46bwViwns?si=tEoHyUfk88oQaoJY

VOLUNTEERING

Teaching support for Yingxiu primary school

[Jinan City, Shandong, China, 10/2014 – 07/2015]

We taught the physical education class for a village primary school.

HOBBIES AND INTERESTS

Hiking and Trekking

Member of Mountain & Nature Club of Tsinghua University. The video in the link shows the summit of the 5396-m Haba snow mountain.

Link: https://youtu.be/zOvrZP72_GM?si=KiX2LfYBokfcZoCu

Playing football

Centeral defender in our departments' team, joined offical matches in Tsinghua and Shandong University.