Zirui Zhang

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EDUCATION

Haifa University, Haifa, Israel **Oct. 2022-Aug. 2024**
Master of Science in Marine Geosciences by thesis, LEON H .Charney School
Grade: 90.23/100
Supervisor：Dr.Regina Katsman
Funded by Charney fellowship and Hartter excellent scholarship

China Three Gorges University,Hubei, China **Sep. 2018-July 2022**
Bachelor of Civil Engineering
GPA:84.8/ 100 The highest ranking：19/200
Outstanding graduate from CTGU

RESEARCH EXPERIENCE

Undergraduate Scientific and Technological Innovation Project, China Three Gorges University

Project: *"Study on the mechanism of fracture visualization grouting diffusion and magnetic fluid infiltration",* **2018-2021**

Research Asistant and Leader of undergraduate

- Proposed a Device and Method of Visualization Fracture seepage Simulation using Magnetic fluid
- Proposed An experimental device and method for Measuring the Opening of a certain point of rock fissure and calibrating the permeability Pressure value using magnetic fluid
- Assisted professor in monograph editing
- Participated in the design and implementation of magnetic fluid seepage test on rock fissure

INTERNSHIP EXPERIENCES

Guangxi Beibu Gulf Investment Group, China **July 2021 --Sept.2021**

Engineering management, Engineering department

- Project bidding management
- Engineering construction coordination
- Shallow foundation pit excavation management
- Project schedule management;

CSCEC Oriental Decoration Research and Design Institute, China **Dec 2021--March 2022**

BIM R&D Engineer

- Architectural and building model design
- Developing building information model software by python and c#
- Constructing building information model lightweight platform

ACTIVITIES & AWARDS

- **Charney school fellowship** during 2022 to 2024 at Haifa university
- **Excellent scholarship from Hatt** during 2022 to 2024 at Haifa university
- **Israel China Friendship Society Excellent Student Scholarship** in 2022
- **First-class** (5% in the grade) outstanding student scholarship of CTGU in the first and second semester respectively during 2018 to 2020
- **Second-class**(10% in the grade) outstanding student scholarship of CTGU in the fifth and sixth semester respectively during 2020 to 2022
- **Meritorious Winner**(Top5% Internationally) of ***America Mathematical Contest In Modeling*** in 2020
- **Second prize(** Top 10% in the China)of ***China National Structural Design Information Technology Competition*** for College Students in 2021
- **Second prize(** 10% in the China**)** of ***Higher Education Cup National College Students Mathematical Modeling*** Hubei Contest in 2019

PAPER & PUBLICATION

Patent

- Liu Jie, **Zhang Zirui**, LI Zhao, SHI Qian, Tang Hongyu, Wang Shuyu, Gao Sufang, Sun Tao, LUO Zhiqiang, Xie Xiaokang, Li Hongya, CAI Xianchan, Shen Haowei. *Experimental device and method for measuring opening degree of certain point of rock fracture and calibrating osmotic pressure value by using magnetic fluid* [P]. Hubei Province: CN110763604B,2022-02-08.
- Liu Jie, Li Zhao, **Zhang Zirui**, WANG Shuyu, GAO Sufang, Sun Tao, Tang Hongyu, SHI Qian, Li Zheng, CAI Xiancan, SHEN Haowei, LI Yuanhang, HE Zhuowen, Wu Zijin, WU Jianghong, ZHAO Min, Wu Hao. *Device and Method of Visualization Fracture seepage Simulation using Magnetic fluid* [P]. Hubei Province: CN110296928A,2019- 10-01.
- Liu Jie, GUO Jianxiang, JIANG Pan, **Zhang Zirui**, Liu Zhongkai, Tang Hongyu, Chen Ziyue, Wang Yansong, Song Rui, Sun Rongqi, Li Yunzhou, SHI Qian, Yang Haoyu, XIE Xiaokang, Li Hongya. *The invention relates to a test device and method for simulating anchor drawing of constant resistance soil in deep soil layer.*[P] Hubei Province: CN112730055A,2021-04-30.

Journal

Liu Jie, Li Zhao, Yang Yunan, **Zhang Zirui**, Tang Hongyu, Gao Jin, Shen Jian. *Rockfracture seepage device feasibility and visualization experimental study* [J]. Rock and soil mechanics, 2020, 9 (12) : 4127-4136 + 4144. DOI: 10. 16285 / sm j.r. 2019. 1482.(in Chinese)

Undergraduate graduated design

- Optimization design of residential building pile foundation based on neural network learning. （Grade A）

Master Thesis

- Permeability evolution of gas hydrate bearing sediments affected by hydrate formation morphology and precipitation pattern: insights from the pore scale modelling.

LANGUAGES & SKILLS

Computer Skills:

- Microsoft Office
- Matlab、python、C++
- Origin、Spss
- AutoCAD、Rhinoceros、PKPM、comsol
- Html、csc、javascipt
- Adobe Premiere Pro、Photoshop

SELF ASSESSMENT

Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals. I am proficient in design and analysis modeling using the current design and analysis finite-element programs and I am capable to learn and master other programs. Easy going by nature and able to get along with both work colleagues and senior managers.