

# Jianhui Li

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## Education

Guangzhou University (GZHU) | School of Civil Engineering 09/2020-06/2023

*Master of Civil and Hydraulic Engineering*

GPA: 3.69/5.0 (top10%)

Academic Honor:

- **Outstanding Student Award for 2020-2021 Academic Year, Graduate School of GZHU**
- National Gold Award in the 7th China College Students "Internet Plus" Innovation and Entrepreneurship Competition (2021).
- University-level Third-class Admission Scholarship (2020)
- University-level Second-class Scholarship for 2020-2021 Academic Year
- 1<sup>st</sup> Prize (Group Award) in 2021 Guangdong Undergraduates Swimming Championship (Group-A)

Guangzhou University (GZHU) | School of Civil Engineering 09/2016-06/2020

*Bachelor of Engineering in Civil Engineering (with the track of Underground Structure Engineering)*

GPA: 3.05/5.0 (top20%)

Academic Honor:

- **Departmental Excellent Engineering Design (Foundation Pit Supporting Design of Pingtai Mansion)**
- University-level Third-class Scholarship for 2019-2020 Academic Year
- "Best Competition Team" Award in the 10<sup>th</sup> Guangdong Undergraduates Athletic Meeting

## Papers

- Hai Liu\*, **Jianhui Li**, Xu Meng, Bin Zhou, Guangyou Fang. An Analogical Experiment of Mars Rover Penetrating Radar (RoPeR) Onboard Chinese "Zhurong" Martian Rover on Dry/Water Ice Detection[J]. *Journal of Electronics & Information Technology*, 2022, 44(4): 1336-1342. doi: 10.11999/JEIT211286
- Hai Liu\*, **Jianhui Li**, Yida Tan, et al. Detection and Characterization of Ice in Mars Regolith by Polarimetric GPR Onboarded on Chinese "Zhurong" Rover: A Laboratory Experiment[J]. *IEICE Tech. Rep.*, vol. 121, no. 236, SANE2021- 51, pp. 100-105, Nov. 2021.
- Hai Liu\*, Zhenshi Shi, **Jianhui Li**, Chao Liu, Xu Meng, Yanliang Du, Jie Chen, Detection of Cavities in Urban Cities by 3D Ground Penetrating Radar. *Geophysics* vol. 86, no. 3, 2021 (SCI, JCR Q2, DOI: 10.1190/geo2020-0384.1)

## Patents

- Yunpeng Yue, Hai Liu\*, Yida Tan, **Jianhui Li**, Sicong Lai. 2021. A test platform for detecting voids behind segments in the shield tunnels and underground pipeline defects by using ground penetrating radar. China Patent 202122036320.0
- Hai Liu\*, **Jianhui Li**, Zhaogang Huang, Zhenshi Shi, Yongjingbang Wu, Chao Liu, Jie Cui. 2020. An intelligent positioning method for rebars in concrete based on ground penetrating radar and deep learning. China Patent 202010493228.4

## Research Experience

**Research on the Mars Rover Penetrating Radar (RoPeR) on Chinese "Zhurong" Rover** 10/2020-10/2021

Commissioned by Aerospace Information Research Institute, Chinese Academy of Sciences Supervisor: Prof. Hai Liu

- **Project 1:** Forward Calculation of Full Model for Martian Soil Subsurface Structure Exploration.
- **Project 2:** Calculation of Equivalent Excitation Sources for Complicated Model and System Calibration.
- **Project 3:** Analogical Experiments of Mars Rover Penetrating Radar (RoPeR) Onboard Chinese "Zhurong" Martian Rover on Dry/Water Ice Detection.

## Skills

**Technical Skills:** **MATLAB**, **GPRMax**, **CST MICROWAVE STUDIO**, **HFSS**, **Reflexw**, Microsoft Office, CAD, Revit, etc.

**Language Skills:** Chinese, English, Cantonese.