

He Huang 黄鹤

PhD Student

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## Education

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- PhD of Civil Engineering  
Macau University, Macau, China 2021.08 – present
- M.Eng. of Civil Engineering  
Shantou University, Shantou, China 2018.09 – 2021.07
- B. Eng. of Civil Engineering  
Nanjing University of Aeronautics and Astronautics, Nanjing, China  
2013.09 – 2017.07

## Publications

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- Garg, A., Huang, H., Cai, W. L., et al. Influence of soil density on gas permeability and water retention in soils amended with in-house produced biochar. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13(3): 593-602.
- Huang, H., Reddy, N. G., Chen, P. et al. Effects of pyrolysis temperature, feedstock type and compaction on water retention of biochar amended soil. Scientific Reports, 2021, 11(1): 1-19.
- Garg, A., Huang, H., Kushvaha, V. et al. Mechanism of biochar soil pore-gas-water interaction: gas properties of biochar-amended sandy soil at different degrees of compaction using KNN modeling. Acta Geophysica, 2020, 68(1): 207-217.

- Huang, H., Cai, W. L., Zheng, Q., Chen, P. N., et al. Gas permeability in soil amended with biochar at different compaction states. IOP Conference Series: Earth and Environmental Science. IOP Publishing, 2020, 463(1): 012073.

### Research Interests

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- Pressure infiltration characteristics of foam for EPB shield tunnelling
- Artificial Intelligence in geo-environmental applications

### Projects

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### Selected Awards & Honors

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- China national scholarship, Ministry of Education of the People's Republic of China, 2020
- Outstanding Student of Guangdong Province (Postgraduate), Department of Education of Guangdong Province, 2021

### Academic Services

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