HUAN WANG

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RESEARCH INTERESTS

Soil mechanics, Foundation engineering, Physical modeling, Numerical modeling

EDUCATION

Zhejiang University, China

Ph.D., Geotechnical engineering, 2020

Dissertation: Lateral behaviour of offshore monopile and bucket foundations in sand

Tongji University, China

B.Sc., Civil engineering, 2014

Dissertation: Seismic Design of Immersed Tunnel Considering Travel Wave Effect

RESEARCH EXPERIENCE

Delft University of Technology, Delft, Netherlands

Post-doc researcher, 2020-present, Supervisor: Prof. Amin Askarinejad & Prof. Federico Pisanò & Prof. Ken Gavin

- Monopile Improved Design through Advanced cyclic Soil modelling (MIDAS)

Zhejiang University, Hangzhou, China

Ph.D. candidate, 2014-2020, Supervisor: Prof. Lizhong Wang

- Lateral behaviour of offshore monopile and bucket foundations in sand

Hong Kong University of Science and Technology, Hong Kong, China

Visiting scholar, 2017-2018, Supervisor: Prof. Charles W W Ng

- Centrifuge modeling of monopile foundations in sand and clay

University of Western Australia, Perth, Australia

Visiting scholar, 2018-2020, Supervisor: Prof. Barry Lehane & Prof. Fraser Bransby

- Lateral response of rigid piles in sand

PUBLICATIONS

Journal papers:

- **Wang, H.**, Lehane, B. M., Bransby, M. F., Wang, L. Z., & Hong, Y. (2020). A simple CPT approach for predicting the ultimate lateral capacity of a rigid pile in sand. Géotechnique Letters, 1-25.
- **Wang, H.**, Wang, L. Z., Hong, Y., He, B., & Zhu, R. H. (2020). Quantifying the influence of pile diameter on the load transfer curves of laterally loaded monopile in sand. Applied Ocean Research, 101, 102196.
- **Wang H.**, Lehane B. M., Bransby M. F., Wang L. Z., Hong Y. (2020). Field and numerical study of the lateral response of rigid piles in sand. Géotechnique, under review.
- **Wang, H.**, Bransby, M. F., Lehane, B. M., Wang, L. Z. and Hong, Y. (2020). Numerical investigation of the lateral behaviour of large diameter rigid piles in medium dense uniform sand. Géotechnique, under review.
- **Wang H.**, Wang L. Z., Hong Y., Mašín D., Li W., He B., Pan H. L. (2020). Centrifuge testing on monotonic and cyclic lateral behavior of large-diameter slender piles in sand. Ocean Engineering, under review.
- Wang L. Z., **Wang H.**, Zhu B., Hong Y. (2018). Comparison of monotonic and cyclic lateral response between monopod and tripod bucket foundations in medium dense sand. Ocean Engineering, 155, 88-105.
- He B., **Wang H.**, Hong Y., Wang L. Z., Zhao C. J., Qin X. (2016). Effect of vertical load on lateral behavior of single pile in clay. Journal of Zhejiang University (Engineering Science), 50(7): 1221-1229. (In Chinese)

Conference papers:

- **Wang H.**, Wang L.Z., Hong Y. (2018). Centrifuge Study on the Lateral Loaded Response of the Monopod and Tripod Bucket Foundations in Sand. In Vietnam Symposium on Advances in Offshore Engineering (pp. 428-433). Springer, Singapore.

- **Wang H.**, Lehane B. M., Bransby M. F., Wang L. Z., Hong Y. (2020). An Investigation Of the contribution of the pile base to the lateral response of monopiles under static loading. 4th International Symposium on Frontiers in Offshore Geotechnics (ISFOG), in print.

Presentations:

- **Wang H.**, Hong Y., Wang L. Z. Numerical investigation on the failure mechanism of the tripod bucket foundation under lateral loading in medium dense sand. (Poster) Presented at: The 2nd International Symposium on Coastal and Offshore Geotechnics, Hangzhou, China, July 5-7, 2017.

- **Wang H.**, Hong Y., Wang L. Z. Comparison of monotonic and cyclic lateral response between monopod and tripod bucket foundations in medium dense sand. (Oral) Presented at: International Symposium on Energy Geotechnics (SEG-2018), Lausanne, Switzerland, September 25-28 2018.

- **Wang H.**, Lehane B. M., Bransby M. F. Lateral response of monopiles under static loading. (Oral) Presented at: 2019 COFS/ CEME Research Workshop, Perth, Australia, November 3-4 2019.