

# Yanzhi Wang

PhD student, School of Civil and Environmental Engineering UNSW, Australia

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## Summary

Yanzhi Wang is a PhD candidate in the School of Civil and Environmental Engineering, University of New South Wales. Wang's research interests include soil mechanics, disasters associated with soils, and the relationship between macro and micro scale behaviour in soils.

## Education

- Aug 2018 – PhD, The University of New South Wales, Australia
- Sept 2015 – Jun 2018 ME (Geotechnical Engineering), Central South University, China
- Sept 2011 – Jun 2015 BE (Geotechnical Engineering), Central South University, China

## Publications

- ZHANG K N, **WANG Y Z**, HU H H, NIE S C, ZHANG Y Y, Analysis of Microstructure Changes of Sand Grain Mucky Soil During Consolidation [J]. Hydrogeology and Engineering Geology, 45(1): 96-102. DOI: 10.16030/j.cnki.1000-3665.2018.01.14
- **WANG Y Z**, WANG T J. The Effect of Cubic Spline Interpolation on the Prediction of Soft Soil Settlement with Artificial Neural Network. Journal of Sichuan University of Science & Engineering (Natural Science Edition), 2017 (3): 67-72. DOI: 10.11863/j.suse.2017.03.14
- **WANG Y Z**, WANG T J. Accuracy comparison of interpolation data produced by CSI and BP-ANN in settlement prediction. Journal of Shanghai University of Engineering Science, 2017(2):131-135. DOI: 10.3969/j.issn.1009-444X.2017.02.008
- **WANG Y Z**, QIYU Y L. The application of Amos and SEM in education research. Journal of Lvliang Education Institute, 2013 (2):3-6.

## Research skills

Familiar with geotechnical laboratory tests, have the experience of using numerical software (Midas), familiar with programming language (C++, matlab, python), have the experience of using scanning electron microscope on soil microstructure observation.

## **Industry-involved research experience**

- Project name: The Study of Key Technology for Deep Foundation Pit Supporting Construction in Places with Complex Geological Structure. Contribution: conducted the 3-D modelling of the supporting structure.(2017)
- Project name: The study of key technology of treatment of water in urban subway stations located in deep pits in water-rich karst and fault fracture zones. Contribution: directed the packer permeability test; gave advice on the grouting treatment.(2016)
- Project name: Laboratory study of the engineering properties of soft soil in the region of Dongting Lake. Contribution: conducted the laboratory tests and micro scale tests. (2015)

## **Honour / certificates**

- Enjoyed First-Class Scholarship (National Postgraduate Scholarship) for students obtaining guaranteed admission to postgraduate program, 01/09/2015-30/06/2018, ¥24,000;
- Enjoyed Financial Aid (National Grant) for students enjoying guaranteed admission to postgraduate program, 01/09/2015-30/06/2018, ¥24,000;
- Was awarded a certificate for passing the Registered Civil Engineer (Rock and Soil) Basic Test in 2016
- Was awarded the Scholarship for Arduous Majors of Central South University, Apr. 2015, ¥1,000;
- Was awarded the Third Prize of the Central South University Scholarship in Dec. 2014, ¥800;
- Was awarded the Annual Major Scholarship of Central South University, 2011-2014, ¥3,000;
- A scholarship from the Sinomine Resource Exploration Co., Ltd. in 2011, ¥500;
- Was awarded The Certificate of Level-2 Referee for Badminton of People' s Republic of China;
- Was awarded a certificate for passing the National Computer Rank Examination Grade-2 in 2012;