

Curriculum Vitae



Dr Cheng Zhuoyuan

Head, Building & Project Management, Graduate Diploma in Project Management and Master of Built Environment Programme
School of Science and Technology

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Education Qualifications

2015 Doctor of Philosophy, Nanyang Technological University
2011 B.Eng (Civil), Nanyang Technological University

Academic and Professional Experience

2023 – Present Senior Lecturer, School of Science and Technology, Singapore University of Social Sciences, Singapore
2020 – 2022 Lecturer, School of Science and Technology, Singapore University of Social Sciences, Singapore

Memberships and Professional Activities

- Member, GeoSS
- Member, IES
- Technical Committee on Civil and Geotechnical Works
- SAC Assessor
- Reviewer, Internal Journal of Geotechnical Engineering
- Reviewer, Canadian Geotechnical Journal
- Reviewer, Géotechnique Letters

Consultation and Executive Experience

2015 – 2020 C&S Engineer, Surbana Jurong Consultants Private Limited

Research Interests

- Soil Dynamics
- Advanced Laboratory and Field Tests
- Numerical Modelling
- Foundation Engineering

Selected Publications

- Cheng, Z.Y. & Leong, E.C. (2023) "Comparing the trend of Vs at similar range of saturated and unsaturated stress state variables", Proceedings of the 8th International Conference on Unsaturated Soils, Milos, Greece
- Nyunt T.T., Cheng, Z., Anggraini, Z., Koh, P.P. & Chin, K.K., (2022) "Analysis and visualization for pavement condition assessment using network-level survey data", The 9th Symposium on Pavement Surface Characteristics, paper ID 176, Milan, Italy.
- Leong, E. C., & Cheng, Z. (2022). A geometry-modelling method to estimate landslide volume from source area. Landslides, 1-15.
- Cheng, Z. and Leong, E.C. (2022). Discussion of "Poisson's Ratio Characteristic Curve of Unsaturated Soils" by Sannith Kumar Thota, Toan Duc Cao, and Farshid Vahedifard (2022), Journal of Geotechnical and Geoenvironmental Engineering, 148(6).
- Leong, E. C., & Cheng, Z.Y. (2019). Timoshenko beam effect in flexural resonant column tests. Soils and Foundations, 59(1), 234-239.
- Cheng, Z. and Leong, E.C. (2018). Determination of damping ratios for soils using blender element tests. Soil Dynamics and Earthquake Engineering, Vol 111: 8-13
- Leong, E. and Cheng, Z. (2016). Effects of Confining Pressure and Degree of Saturation on Wave Velocities of Soils. International Journal of Geomechanics, Vol. 16(6)
- Cheng, Z. and Leong E.C. (2016). Finite element simulations of wave propagation in soils using a Viscoelastic model. Soil Dynamics and Earthquake Engineering, Vol. 88: 207-214
- Cheng, Z.Y. & Leong, E.C. (2015). Damping characteristics of sand-rubber chip mixtures as a seismic barrier, Proceedings of the 5th International Conference on Design and Analysis of Protective Structures, Singapore
- Cheng, Z.Y. & Leong, E.C. (2015). Relationship between water retention, stiffness and damping ratio in soils, Proceedings of the 12th Australia New Zealand Conference on Geomechanics, Wellington, New Zealand, pp. 1-8

- Cheng, Z.Y. and Leong, E.C. (2014). A hybrid bender element–ultrasonic system for measurement of wave velocity in Soils. *ASTM Geotechnical Testing Journal*, Vol 37(3): 1-13
- Cheng, Z.Y. & Leong, E.C. (2014). Effect of confining pressure and degree of saturation on damping ratios of sand, *International Conference on Unsaturated Soils: Research & Applications 1*, Sydney, Australia, pp. 227-232
- Cheng, Z.Y. & Leong, E.C. (2013). Ultrasonic testing of unsaturated soils, *Proceedings of ISSMGE TC-101 Workshop - Multiphysical Testing of Soils and Shales*, Lausanne, Switzerland, pp. 105-110
- Cheng, Z.Y. & Leong, E.C. (2011). Estimation of P-wave velocities for unsaturated geo-materials, *Proceedings of the 5th Asia Pacific Conference on Unsaturated Soils*, Pattaya, Thailand, pp. 623-628

Awards

- IES/ISTRUCTE Gold Medal cum Book Prize (2010 - 2011)
- TUCSS Geotechnical Engineering Award (2010 - 2011)
- Lee Kuan Yew Gold Medal Award (2010 - 2011)

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