Resume

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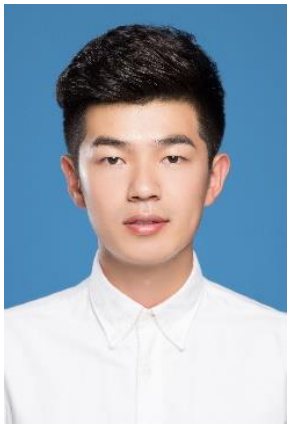

Education Background

2012.09-2016.06	Chang’ an University	Bachelor's degree	Bridge Engineering
2017.09-2020.03	Southeast University	Master's degree **Supervisor:** Guojun Cai	Geotechnical Engineering
2020.03-Present	Southeast University	Ph.D. **Supervisor:** Guojun Cai	Geotechnical Engineering
2022.02-Present	University of Natural Resources and Life Sciences, Vienna	CSC Joint Doctoral Training Program **Supervisor:** Wei Wu	Geotechnical Engineering

Research Focus: In-Situ Testing, Pressuremeter testing, Piezocone testing

Participated Research Projects

1. National Natural Science Foundation of China for Distinguished Young Scholars (Grant No. 42225206) (Key member)
2. National Key R&D Program of China (Grant No.2020YFC1807200) (Key member)
3. National Natural Science Foundation of China (Grant No. 42072299) (Key member)
4. National Natural Science Foundation of China (Grant No. 41877231) (Participated member)

Research Achievements

Published Paper:

Wu, M., Cai, G., Liu, L., Jiang, Z., Wang, C., & Sun, Z. (2021). Quantitative identification of cutoff wall construction defects using Bayesian approach based on excess pore water pressure. Acta Geotechnica, 1-19. (Q1)

Wu, M., Cai, G., Wang, C., & Liu, S. (2022). Mapping constrained modulus differences in a highway widening project based on CPTU data and two-dimensional anisotropic geostatistics. Transportation Geotechnics, 32, 100686.(Q1)

Wu, M., Zhao, Z., Cai, G., Duan, W., Wang, C., Cheng, G., Wang, X. (2022). In-situ evaluation of soil contaminated by total petroleum hydrocarbons using membrane interface probe: A case study from Nanjing, China. Bulletin of engineering geology and the environment. (Q1)

Wu, M., Congress, S. S. C., Liu, L., Cai, G., Duan, W., & Chen, R. (2021). Prediction of limit pressure and pressuremeter modulus using artificial neural network analysis based on CPTU data. Arabian Journal of Geosciences, 14(1), 1-18. (Q4)

Wu, M., Zhao, Z., Cai, G., Wang, C., Cheng, G., Wang, X. (2022). Adsorption behaviour and mechanism of benzene, toluene and m-xylene (BTX) solution onto kaolinite: Experimental and molecular dynamics simulation studies. Separation and purification technology. 291, 120940. (Q1)

Wu, M., Zhao, Z., Rong, Q., Cai, G., Duan, W., Wang, C., (2023). Estimation of in-situ undrained shear strength using hemispherical and T shape free-fall penetrometer in soft clay. Georisk. (Q1)

Wu, M., Cai, G., Liu, S., Li X., Wang S., Zhong D, & Dai J. (2019). Review of membrane interface probe for in-situ investigation of volatile organic compounds-contaminated sites. Chinese Journal of Geotechnical Engineering, 41(S1), 29-32.

Wu, M., Cai, G., Wang, C., Duan, W., Liu, S., Qiao, H., Hong, Y. (2022). Reliability identification of subsurface shallow gas based on resistivity piezocone penetration tests. Rock and Soil Mechanics, 43(12): 3463-3473.

Wu, M., Zhao, Z., Wang, C., Cai, G., (2023). In-situ evaluation of barrier performance of cutoff wall based on BayesianParticle swarm optimization using piezocone penetration test. Chinese Journal of Rock Mechanics and Engineering. 42(2): 483-496.

Wang, C., Cai, G., **Wu, M.,** Liu X., Liu S. (2022). Prediction of thermal conductivity of soils based on artificial intelligence algorithm. Chinese Journal of Geotechnical Engineering. 44(10):1899-1907.

Wu, M., Cai, G., Liu, S., Zou, H. (2020) Evaluation of horizontal permeability coefficient of saturated soil based on CPTU tests. Proceeding of 6th international conference on geotechnical and geophysical site characterization.

Wang, C., Cai, G., **Wu, M.**, & Zhao, Z. (2022). Prediction of soil thermal conductivity based on multivariate probability distribution models. International Communications in Heat and Mass Transfer, 138, 106355.(Q1)

Zhao, Z., Duan, W., Cai, G., **Wu, M.,** & Liu, S. (2022). CPT-based fully probabilistic seismic liquefaction potential assessment to reduce uncertainty: Integrating XGBoost algorithm with Bayesian theorem. Computers and Geotechnics, 149, 104868.(Q1)

Wang, C., Feng, H., Cai, G., & **Wu, M**. (2022). Multivariate distribution models of soil electrical resistivity. Cold Regions Science and Technology, 201, 103584. (Q1)

Duan, W., Zhao, Z., Cai, G., Wang, A., **Wu, M.**, Dong, X., & Liu, S. (2023). V s-based assessment of soil liquefaction potential using ensembling of GWO–KLEM and Bayesian theorem: a full probabilistic design perspective. Acta Geotechnica, 18(4), 1863-1881. (Q1)

Duan, W., Congress, S. S. C., Cai, G., Zhao, Z., Pu, S., Liu, S., Dong, X, **Meng W** & Chen, R. (2023). Characterizing the in-situ state of sandy soils for liquefaction analysis using resistivity piezocone penetration test. Soil Dynamics and Earthquake Engineering, 164, 107529. (Q1)

Patent:

Wu, M., Cai, G., Rong, Q., Liu D. A geotechnical testing device for cryogenic frozen soil undisturbed samples. (Authorized)