



Individual Membership Form

Personal information

Title: Dr.

Gender: (MF) M

Name: Wang, Ze Zhou

Suffix: -

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Current affiliation: Department of Civil and Environmental Engineering, National University of Singapore

Job title: Research Fellow

Education Background

Highest degree received: Doctor of Philosophy

Received from: National University of Singapore

Major: Geotechnical Engineering

Professional background

Professional background relevant to GEOSNet:

My research centres on the development and provision of tools and techniques. I then strategically compile techniques into novel methodologies for solving problems in the topics dimension. In a nutshell, my research interests and expertise are particularly compatible with the intersection of (i) geotechnical engineering, (ii) soil-structure interactions, (iii) computational geomechanics, (iv) geotechnical risk and reliability analysis and design, (v) data-analytics, and (vi) artificial intelligence. In the application dimension, I have been focusing on (i) soil slopes, (ii) geotechnical excavations, and (iii) geotechnical site investigations. In the topics dimension (my research thrusts), I have been focusing on (i) geotechnical system health monitoring and back analysis, (ii) geotechnical reliability analysis and design, and (iii) geological and geotechnical uncertainty quantification. Ultimately, my long-term research plan is driven by the following fundamental research question: "What do we need, methodologically and topically, to monitor, strengthen and control preparedness, resilience, adaptability and decision-making for

geosystems under various future conditions and demands?"

Main reasons for your interest in GEOSNet and potential contributions to the network:

Through the access to world-class ideas and resources and the network with top-notch academics, researchers and engineering practitioners in GEOSNet, I have confidence that, in my journey to (i) promote research and practice on assurance of geotechnical safety to keep pace with advancements in numerical methods, risk management methods, materials/equipment, and construction methods, and (ii) encourage engineers to embrace uncertainties and risks more explicitly and more systematically in practice and education, I can also significantly contribute to GEOSNet through helping organizing international symposiums and conferences and other networking events and further expanding this valuable network that advocates for geotechnical safety.