INFORMAZIONI PERSONALI

Nome e Cognome	Wenhui Yang
Nazionalità	Cinese

ISTRUZIONE E FORMAZIONE

• Date (da - a)	March 2021 - fino ad ora
• Nome e tipo di istituto di istruzione o formazione	Sapienza Università di Roma, Roma, Italia Dipartimento di Ingegneria Chimica Materiali Ambiente
• Principali materie / abilità professionali oggetto dello studio	Finite Element, Modeling of Offshore Structures, Continuum Mechanics, Virtual element Method (VEM), Damage Mechanics and Modelling for Materials and Structures
• Qualifica conseguita	Visiting Ph. D student (La borsa di dottorato è stata soapersa a partire da febbraio 2022)
• Date (da – a)	September 2017 - now
• Nome e tipo di istituto di istruzione o formazione	Southeast University, Nanjing, China Department of Underground Engineering, School of Transportation
• Principali materie / abilità professionali oggetto dello studio	Modern Soil Mechanics, Principles of Geoanalysis, Mathematical Model, Road Safety Design and Evaluation Thesis topic: *Study on the mutual influence and protection strategy between subway tunnel and pile foundation construction*
• Qualifica conseguita	Ph. D. Candidates of Transport Engineering
• Date (da – a)	September 2014 - July 2017
• Nome e tipo di istituto di istruzione o formazione	Chang'an University, Xi'an, China Department of Geotechnical Engineering, School of Highway
• Principali materie / abilità professionali oggetto dello studio	Numerical Analysis, Advanced Soil Mechanics, Elastoplastic Theory, Geotechnical Similarity Theory and Model Test, Mathematical Statistics and Stochastic Processes Thesis topic: *Study on the Deterioration Mechanism and the Health Evaluation System of Loess Highway Tunnel Structure under Variable Load*
• Qualifica conseguita	Master's degree of Bridge and Tunnel Engineering
• Date (da – a)	September 2010 - July 2014
• Nome e tipo di istituto di istruzione o formazione	Taiyuan University of Technology, Taiyuan, China Department of Underground Engineering, School of Mining Engineering
• Principali materie / abilità professionali	Fluid Mechanics, Rock Mechanics, Theoretical Mechanics, Elastic Mechanics, Materials Mechanics, Structural Mechanics,

oggetto dello studio	Computational Mechanics, Engineering Geology
	Graduation Project: *Construction organization design of shield tunnel section from Puhuangyu Station to Fangzhuang Station of Beijing Metro Line 14*
• Qualifica conseguita	Bachelor's degree of Urban Underground Space Engineering

ESPERIENZA LAVORATIVA

• Date (da – a)	May 2020 – fino ad ora
• Nome e indirizzo del datore di lavoro	China Railway Fifth Survey and Design Institute Group Co., Ltd.
• Tipo di impiego	Interaction analysis between tunnels and pile foundation constructions and protection strategy
• Principali mansioni e responsabilità	Calibrate the developed numerical model based on the field data obtained in the actual project. Based on the calibrated numerical model, assess the influence of pile construction (incorporate a sensitivity analysis based on pile material, stagnation frequency, pile size, pile type, etc.), tunnel construction (incorporate tunnel size, buried depth, bridge and tunnel relative position, etc.) and various soil parameters by using Abaqus and Plaxis.
• Date (da – a)	June 2019 - February 2021
• Nome e indirizzo del datore di lavoro	Changzhou Rail Transit
• Tipo di impiego	Safety consulting, shield excavation numerical simulation
• Principali mansioni e responsabilità	Safety assessment and influence analysis of 3 proposed bridges on Existing Changzhou Metro Line 1 by using Abaqus
• Date (da – a)	July 2019-June 2020
• Nome e indirizzo del datore di lavoro	China Construction Eighth Engineering Division Co., Ltd.
• Tipo di impiego	Safety consulting, shield excavation numerical simulation
• Principali mansioni e responsabilità	Research on construction influence and deformation control of Nanjing-Jurong subway under-pass existing bridge and shallow foundation building by using Abaqus
• Date (da – a)	October 2017-January 2019
• Nome e indirizzo del datore di lavoro	Yangzhou Tunnel Management Office
• Tipo di impiego	Field monitoring, data analysis, numerical simulation
• Principali mansioni e responsabilità	Conducted two years of on-site monitoring of Yangzhou Shouxihu Tunnel (14m large-diameter underwater shield tunnel), adopted Ansys to analyze the characteristics of lining deterioration, and

	proposed the safety assessment method and control standards
• Date (da – a)	2015-2017
• Nome e indirizzo del datore di lavoro	Gansu Provincial High-grade Highway Operation Management Center
• Tipo di impiego	Model testing, numerical simulation, safety consulting
• Principali mansioni e responsabilità	Conducted a series of large scale model tests to study the lining structure cracking process, and established a health evaluation system for loess tunnel under water immersion.

PUBBLICAZIONI

1 W. Yang, D. Zhang and A. Wang, Field measurement analysis of the influence of simultaneous construction of river channel and bridge on existing double shield tunnels, Underground Space, 2021, https://doi.org/10.1016/j.undsp.2021.12.008

2 Yang Wenhui,Zhang Dingwen,Yan Qian,et al.Numerical analysis on stability of slope reinforced by combination of deep and shallow roots[J].Journal of Southeast University (Natural Science Edition),2020,50(1):161-168.   https://doi:10.3969/j.issn.1001-0505.2020.01.021

3 Song, W.L., Lai, H.P., Liu, Y.Y., Yang, W.H., Zhu, Z.D., 2019. Field and laboratory study of cracking and safety of secondary lining for an existing highway tunnel in loess ground. Tunnelling and Underground Space Technology 88, 35-46. https://doi.org/10.1016/j.tust.2019.02.018

4 Yang, W.H, Lai, H.P., Liu, Y.Y., Song, W.L. Study on the Health Evaluation System of Loess Tunnel Structure Based on Model Tests. the 1st International Conference on Exploration and Utilization of Underground Space, Accepted by Abstract Proceedings

5 Yang, W.H., 2019. Numerical Analysis of Stability of Slope Reinforced by Combination of Deep and Shallow Roots[C]. The Academic Seminar on Mechanical Properties and Engineering Practice of Soil Filling, Taiyuan China, 2019).

CAPACITÀ E COMPETENZE PERSONALI	
MADRELINGUA	Cinese
Capacità di lettura	Eccellente
Capacità di scrittura	Eccellente
Capacità di espressione orale	Eccellente
ALTRE LINGUA	Inglese

Capacità di lettura	Buono
Capacità di scrittura	Buono
Capacità di espressione orale	Buono
ALTRE LINGUA	Italiano
Capacità di lettura	Elementare
Capacità di scrittura	Elementare
Capacità di espressione orale	Elementare
CAPACITÀ E COMPETENZE TECNICHE	Finite Element Analysis Abaqus, Plaxis, Python, Fortran