Resume (Zhihe Wang)

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Highlights

- Consistent dedication in improving academic writing quality for clients; outstanding attention to detail
- Native-level fluency in English (permanent resident in Australia with IELTS 7.5 & PTE 77); native user of Mandarin and Cantonese (Simplified Chinese)
- 10+ years of research experience (4 years in Australia) with 30+ research articles in top-tier peer-review journals (mostly JCR Q1) including *Water Resources Research*, *Journal of Hydrology*, *International Journal of Rock Mechanics and Mining Sciences*
- Fields of expertise span from Engineering (Civil, Mining, Petroleum, Geotechnical) to Earth and Environmental Science (Geophysics, Hydrogeology, Geothermal, Groundwater Remediation); solid understanding and knowledge of technical terminologies in both Simplified Chinese and English
- 3+ years of professional editing & translation experiences in academic writing; 100+ edited/translated research articles
- Everyday user of MS Word and other Office software; demonstrated capability in effective time management and ability to work independently, from years of professional experiences

Education and Employment

10/2022-05/2020	PostDoc Research Fellow	Shenzhen University
09/2022-12/2019	Freelance Editor/Translator	SCIChoice
06/2020-08/2019	Freelance Editor	CACTUS Communications
11/2019-10/2015	Ph.D in Mining & Geotechnical	The University of Adelaide
07/2015-09/2012	MPhil in Mining Engineering	China University of Mining and Technology
07/2012-09/2008	BEng in Mining Engineering	Xi'an University and Science and Technology

Professional Skills

Field of Specialization

Engineering: Civil Engineering, Mining Engineering, Geotechnical Engineering, Petroleum Engineering

Earth and Environmental Science: Geophysics, Hydrogeology, Geothermal, Groundwater

Language and Computer Skills

- Native-level fluency in English (4+ years of living in Australia); Native speaker of Mandarin and Cantonese
- Translated 30+ research articles from Simplified Chinese to English; edited 80+ English research articles
- Everyday user of Microsoft Word and other Office software

Peer-review

10+ international journals including: *Water Resources Research*; *Engineering Geology*; *International Journal of Rock Mechanics and Mining Sciences*; *Physics of Fluid*, *Geomechanics and Geophysics for Geo-Energy and Geo-Resources* etc.

Selected Publications

[1] **Wang, Z.**, H. Xie, C. Li, and X. Wen (2022), Fluid flow and solute transport through intersected rock fractures with stress-induced void heterogeneity. Accepted with *Engineering Geology*.

[2] Wang, H., C. Xu, P. Dowd, **Z. Wang**, and L. Faulkner (2022), Modelling in-situ recovery (ISR) of copper at the Kapunda mine, Australia. *Minerals Engineering*, 186(2), 107752.

[3] Cui P., H. Xie, **Z. Wang**, H. Hao, C. Li, and, M. Gao (2022), Implications of local-scale approximations on describing fluid flow in rock fractures with stress-induced void heterogeneity. *Water Resources Research*, 58, e2021WR031867.

[4] Zhou C., H. Xie, J. Zhu, **Z. Wang**, C. Li, and F. Wang (2022), Mechanical and Fracture Behaviors of Brittle Material with a Circular Inclusion: Insight from Infilling Composition. *Rock Mechanics and Rock Engineering*, 55, 3331–3352.

[5] Wang Y., F. Ma, H. Xie, G. Wang, **Z. Wang** (2021), Fracture Characteristics and Heat Accumulation of Jixianian Carbonate Reservoirs in the Rongcheng Geothermal Field, Xiong'an New Area. *Acta Geologica Sinica*, 95(6), 1902-1914.

[6] **Wang, Z.**, C. Zhou, F. Wang, C. Li, and H. Xie (2021), Channeling flow and anomalous transport due to the complex void structure of rock fractures. *Journal of Hydrology*, 601, 126624.

[7] **Wang, Z.**, J. Wang, C. Zhou, C. Li, and H. Xie (2021), Retaining primary wall roughness for flow in rock fractures and implications on heat transfer and solute transport. *International Journal of Heat and Mass Transfer*, 176, 121488.

[8] Li, J., B. Li, **Z. Wang**, C. Ren, K. Yang, and Z. Gao (2021), A permeability model for anisotropic coal masses under different stress conditions, *Journal of Petroleum Science and Engineering*, 198, 108197.

[9] Li, J., B. Li, **Z. Wang**, C. Ren, K. Yang, and S. Chen (2020), An Anisotropic Permeability Model for Shale Gas Recovery Considering Slippage Effect and Embedded Proppants, *Natural Resources Research*, 29, 3319–3333.

[10] **Wang, Z.**, C. Xu, P. Dowd, F. Xiong, and H. Wang (2020), A nonlinear version of the Reynolds equation for flow in rock fractures with complex void geometries, *Water Resources Research*, 56. e2019WR026149.

[11] Li, B., C. Ren, **Z. Wang**, J. Li, K. Yang, and J. Xu (2020), Experimental study on damage and the permeability evolution process of methane-containing coal under different temperature conditions, *Journal of Petroleum Science and Engineering*, 184, 106509.

[12] Li, J., B. Li, Z. Pan, **Z. Wang**, K. Yang, C. Ren, and J. Xu (2020), Coal Permeability Evolution Under Different Water-Bearing Conditions, *Natural Resources Research*, 29, 2451–2465.

[13] **Wang, Z.**, C. Xu, and P. Dowd (2019), Perturbation solutions for flow in a slowly varying fracture and the estimation of its transmissivity, *Transport in Porous Media*, 128(1), 97–121.

[14] Xu, C., C. Fidelibus, P. Dowd, **Z. Wang**, and Z. Tian (2018), An iterative procedure for the simulation of the steady-state fluid flow in rock fracture networks, *Engineering Geology*, 242, 160–168.

[15] **Wang, Z.**, C. Xu, and P. Dowd (2018), A modified cubic law for single-phase saturated laminar flow in rough rock fractures, *International Journal of Rock Mechanics and Mining Sciences*, 103, 107–115.

[16] Xu, C., C. Fidelibus, **Z. Wang**, and P. Dowd (2018), A simplified equivalent pipe network approach to model flow in poro-fractured rock masses, *2nd International Discrete Fracture Network Engineering Conference*, Seattle.

[17] **Wang, Z.**, C. Xu, and P. Dowd (2018), A non-linear model for flow in two-dimensional rock fractures, *10th Asian Rock Mechanics Symposium*, Singapore.

[18] Zheng, J., W. Ju, Y. Fu, **Z. Wang**, H. Pan, W. Jiang (2018), Dynamic evolution characteristic of abutment pressure in mining face under multi-time-space conditions, *10th Asian Rock Mechanics Symposium*, Singapore.