
Education

Wuhan University of Technology Mining Engineering (Bachelor)	2012 - 2016
GPA: 87.4/100	
Wuhan University of Technology Mining Engineering (Master)	2016 - 2019
GPA: 87.54/100	
West Virginia University Mining Engineering (Ph.D. Student)	2019 - 2021
GPA: 3.875	

Research Experience

Stability analysis of the slope in an open-pit mine (Bachelor's Thesis)	2015 - 2016
This thesis Won Excellent bachelor's thesis of Hubei Province, 2017.	

Damage characteristic of shaft wall and its protection (Master's Thesis)	2016 - 2019
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This research produced three peer-reviewed journal papers:

Zhao Y, Haiwang Y E, Lei T, et al. Theoretical study of damage characteristics on ore pass wall based on the erosion-wearing theory[J]. Chinese Journal of Rock Mechanics & Engineering, 2017.

Zhao Y, Ye H, Lei T, et al. Theoretical Calculation of Initial Collision Position on Shaft Wall of an Adit in Open-pit Mine[J]. Metal Mine, 2017.

Ye H, Zhao Y, Ouyang J, et al. Numerical Simulation on the Motion of Ore and the Damage of Shaft Wall in Chute System of an Adit[J]. Metal Mine, 2017.

Size effect of laminated shale under different compression stress conditions	2019 - 2021
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Use the uniaxial, biaxial and triaxial compression tests to study the size effect of laminated shale in laboratory.

Build the discrete element model of laminated shale which incorporates both the transverse isotropy and the size effect.

Implement the model of laminated shale into the underground mine roof to study the roof stability

Industrial Experience

Use Flac3D software to build the numerical model of the slope of an aggregate mine and analyze the slope stability

Design the development system of an aggregate mine, draw the system in AutoCAD, and write the development report

Optimize the ore pass system employment for reducing the wall wearing, and design the wall protect device

Skills

Numerical Simulation Software: PFC, FLAC and ANSYS

Mine Design: AutoCAD and DIMINE

Programming Language: Python and MATLAB

Awards

Outstanding Graduates of WHUT, Excellence Graduate Student Scholarship, 2016

Merit Student, First Grade graduate Student Scholarship, China National Scholarship, 2017

Merit Student, First Grade graduate Student Scholarship, China National Scholarship, 2018

WAAIME Scholarship, 2020

WAAIME Scholarship, 2021

Mining Engineering Faculty Award, 2021

Certificates

China Associate Constructor (Mining Engineering)