

## *Jin Wang*

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### **Senior Geomechanics Engineer**

<i>Expertise</i>	Geomechanics, Mining Engineering)
<i>Education</i>	M.S. (Geotechnical Engineering), 2011 Northwestern University, Chicago, Illinois M.S. (Mining Engineering), 2007 The Pennsylvania State University, State College, Pennsylvania M.S. (Mining Engineering), 2002 China University of Mining & Technology, Beijing, China B.S. (Mining Engineering), 1999 China University of Mining & Technology, Xuzhou, China
<i>Professional Affiliations</i>	Member, American Society of Civil Engineers (ASCE) Member, Society for Mining, Metallurgy and Exploration (SME)
<i>Honors</i>	Walter P. Murphy Fellowship, Northwestern University (2008-2009)  Anne C. Wilson Graduate Research Award, The Pennsylvania State University (2005)
<i>Professional Experience</i>	<i>Itasca Consulting Group, Inc., Minneapolis, Minnesota</i> <i>Senior Geomechanics Engineer</i> <i>2015 – Present</i> <i>Geomechanics Engineer</i> <i>2011 – 2015</i> <i>Northwestern University, Dept. of Civil &amp; Environmental Engineering</i> <i>Research Assistant, Geotechnical Engineering</i> <i>2008 – 2011</i> <i>The Pennsylvania State University, Department of EGEE</i> <i>Graduate Assistant, Mining Engineering</i> <i>2004 – 2007</i> <i>China Coal Research Institute, Beijing, China</i> <i>Assistant Engineer</i> <i>2003 – 2004</i> <i>China University of Mining &amp; Technology, Beijing, China</i> <i>Graduate Assistant, Mining Engineering</i> <i>1999 – 2002</i>

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### *Project Experience*

#### *Civil Projects:*

Sinkhole slope stability evaluation using FLAC. Investigation on deformations of the corrugated metal arch induced by foundation settlement using FLAC. Assessment of settlements caused by excavation of tunnels and consolidation settlements over time using FLAC. Evaluated earth pressure on cantilever sheet-pile walls with retained slopes. Conducted a finite-element parametric study using PLAXIS for a range of conditions encountered in practice, and provided guidance regarding the selection of appropriate design pressure. Performed laboratory tests on Chicago stiff clay to investigate small-strain response, and conducted PLAXIS simulations using a hypoplastic model.

*Mining Projects:* Mine-void detection using geophysical methods. Experimental design, field surveys and seismic data analysis using MATLAB. Database development using Access. Wave velocities measurements on rock and coal samples. Numerical analysis of longwall mining.

*Software Development:* Development, support, training for FLAC.