

Senior Geotechnical Engineer

Expertise	Rock Mechanics, Numerical Modeling
Education	M.Sc. Civil Engineering, 2011 Pontificia Universidad Católica de Chile, Chile
	B.A.Sc. Geotechnical Engineer, 2011 Pontificia Universidad Católica de Chile, Chile.

Professional Experience

2020 - Present	Itasca Chile SpA, Chile Senior Geotechnical Engineer
2017 – 2020	SRK Consulting Chile, Chile Consulting Engineer
2015 - 2017	MVA Geoconsulta, Chile Geotechnical Engineer
2013 - 2014	IM2, Codelco, Chile Researcher
2011 - 2014	Pontificia Universidad Católica de Chile Researcher
2010 - 2011	Arcadis Chile Project Engineer

Project Experience

Numerical modeling applied to open pit mining: Design and stability analysis of slopes for projects in Chile, Peru, Brazil, Russia, Botswana & Kyrgyzstan, including creep analysis, DFN and hydro-mechanical coupling models. Additionally, quantitative geotechnical risk assessment and uncertainty analysis.

Numerical modeling applied to underground mining: Stability analysis, uncertainty analysis and quantitative risk assessment, in-situ and primary fragmentation estimation for projects in Chile, USA y Russia. Research of technologies of rock mass pre-conditioning by hydraulic fracturing, including hydraulic fracture propagation modeling.