

Geomechanics Consultant

Expertise Geomechanics and numerical modeling

Education Mining Engineer, 2019

Universidad de Santiago de Chile

Professional Experience

2024 – Present Itasca Chile SpA, Santiago, Chile

Geomechanics Consultant

2019 – 2024 Itasca Chile SpA, Santiago, Chile

Geomechanics Specialist

Project Experience

Performs numerical modeling projects for surface and underground mining for different mining operations like Collahuasi (Chile), Escondida (Chile), Esperanza (Chile), Encuentro (Chile), Cerro de Pasco (Perú), Jwaneng (Botswana), Cuiabá (Brasil), Antapaccay (Perú), Vasilkovsky (Kazakhstan), Havieron (Australia). These projects includes activities such as calibrate numeric models, predictive analysis and mitigations alternatives.

He performed his degree project in Itasca using 3DEC and FLAC3D to comparatively assess the deformations induced by the development of open pit mining under different assumptions of elasticity modules. His experience in Itasca has focused on execution of stability analysis for open pits and underground mines, using codes like 3DEC, UDEC and FLAC3D.

During his period as a student, Matías worked in the USACH rock mechanics laboratory (CGEM) preparing and executing destructive and non-destructive geomechanical tests on intact rock to determine index properties and determine in-situ stress fields using Kaiser effect.

9/1/2025