

## Hydrogeology Consultant

**Expertise** Mining Hydrogeology, Hydrogeological Numerical Modeling, Mine Dewatering, Tailing Storage Facilities.

**Education** Geologist, 2018  
Universidad de Chile, Santiago, Chile

BSc., in Geology, 2017  
Universidad de Chile, Santiago, Chile

## Professional Experience

01/2024 – Present Itasca Chile SpA., Santiago de Chile  
Hydrogeology Consultant

09/2019 – 12/2023 Itasca Chile SpA., Santiago de Chile  
Project Hydrogeologist

01/2019 – 12/2019 BMining SpA., Santiago, Chile  
Hydrogeologist

## Project Experience

*Mining Hydrogeology:* Hydrogeologist with 6 years of experience in 1D, 2D and 3D numerical modeling of hydrogeological systems including: open pit and underground mines, tailings storage facilities and reservoirs. In charge of the construction, calibration, predictive simulations and uncertainty analysis of numerical models related to environmental impact assessments (EIA), early-warning plans, evaluation of pit lake formation in post-closure stages, pore pressure calculation (slope stability), estimation of pumping rates, infiltration and evolution of piezometric levels. Projects for mining companies in Chile, Peru, Brazil, Russia and Australia using software such as MINEDW, FEFLOW and SEEP/W.

Modeling experience includes interpretation of hydraulic tests and conceptual hydrogeology, implicit geological modeling using Leapfrog and design of drainage and depressurization plans.

*Engineering Hydrogeology:* He has designed drainage plans that incorporate combinations of several drainage and depressurization elements (tunnel, drains, vertical pumping wells and directional pumping wells) for long-term strategies in class 5 and 4 engineering level projects considering strategic and economic aspects.

*Geotechnics:* He has worked on the geotechnical characterization and evaluation of tunnel support using Barton's Q and RMR indices from borehole data and on the survey of structural information through 3D photometry in underground mining projects. His work has also included the review of geological, hydrogeological, geotechnical and geological risk information for civil engineering projects (roads, power lines, houses, aqueducts, etc.).