MONICA RAMIREZ ARCE

METALS & MINING RESEARCH | MINE ECONOMICS | ASSET VALUATION

Mexico City, Mexico • monicaramirezgeo@gmail.com • linkedin.com/in/monicaramireza/ • monicaramirezarce.com

PROFESSIONAL SUMMARY

Geological engineer and metals & mining analyst with experience at S&P Global and Wood Mackenzie. Specializes in asset-level mine economics, DCF/NPV analysis, operating-cost benchmarking, AISC and commodity-market research. Connects geological and operating assumptions with cash-flow drivers, project valuation and investment-relevant insights.

PROFESSIONAL EXPERIENCE

S&P GLOBAL MARKET INTELLIGENCE | Mine Economics & Emissions Analyst — Sep 2024–Present

- Develop, maintain and review 100+ mine-level economic models across precious, base, bulk and critical minerals, integrating production schedules, capital expenditure, operating costs and project economics.
- Assess mine-level cash flows and DCF/NPV scenarios using technical disclosures and operating data; evaluate sensitivity to metal prices, grades, recoveries, cost assumptions and by-product credits.
- Benchmark total cash costs and AISC across mining assets; analyse cost-curve position, sustaining capital, royalties and asset competitiveness using reported data and documented assumptions.
- Contribute to industry research and presentations on mine economics, cost competitiveness and commodity-market developments for professional audiences in Mexico and Latin America.

WOOD MACKENZIE | Research Associate, Metals & Mining — 2024

- Modelled and benchmarked zinc, lead and copper mine costs across the Americas, including labour, energy, transport, royalties and commercial terms; contributed to client research.

MOINTOB S.A. DE C.V. (STAIKER BRAND) | Co-Founder — 2021–Present

- Co-founded a structural-monitoring business serving critical infrastructure across North and Latin America; oversee product development, operational management, regulatory compliance and commercial partnerships alongside a full-time research career.

INDUSTRIAS PEÑOLES | Internal Auditor — 2018–2020

- Audited technical and operating controls across Peñoles and Fresnillo assets, including resource-estimation workflows, drill-hole data and mine-to-plant reconciliations; reported findings to management.

PUBLICATIONS & INDUSTRY SPEAKING

Published Research | S&P Global Market Intelligence

18 Aug 2026	How lead, silver and copper credits are reshaping zinc mine profitability
12 Jun 2026	Copper on a knife-edge in Peru
11 May 2026	Expocobre 2026 takeaways: Navigating the complexities of future copper supply
23 Mar 2026	Water, energy pressures are driving up Chile's mining costs
12 Jan 2026	Silver margins soar as high prices, cost controls converge

Work in Progress | Copper Incentive-Price Article (in development)

Industry Speaking | Six completed presentations/panels: UNAM Geology Society (Sep 2025); State of the Market (Feb 2026); ExpoCobre (Mar 2026); SNMPE Exploration and Peru Market Briefing Panel (Apr 2026); SNMPE Metals Market Overview (Aug 2026).

Upcoming Presentation | Exploration Trends (Dec 2026; scheduled).

EDUCATION & TECHNICAL CAPABILITIES

Education | B.Eng. Geological Engineering, UNAM — Academic Distinction (ranked 2nd in graduating class); postgraduate studies in Corporate Finance & Stock Market, Universidad Anáhuac.

Training | Advanced Geostatistics / Estudio RM, Datamine — 200 hours (Apr–Nov 2018).

Financial & technical | Mine DCF/NPV, AISC and cash-cost curves, sensitivity analysis, asset benchmarking, resource/reserve data, mining ESG/emissions.

Software | Excel (advanced), VBA/macros, SQL (intermediate), Python (basic), GIS (basic).

Languages | Spanish (native), English (fluent), German (intermediate).