
Hydrogeologist

Expertise **Climate change, hydrogeological models and environmental studies.**

Education Diploma in Watershed Hydrological Modeling, 2019
University of Chile, Santiago, Chile

Civil Engineer with a mention in Hydraulic, Sanitary, and Environmental Engineering, 2017
University of Chile, Santiago, Chile

Professional Experience

2024 – Present Itasca S.A., Santiago, Chile
Hydrogeology Consultant

2020 – 2024 SQM Salar S.A., Santiago, Chile
Hydrologist

2017 – 2020 Arcadis Chile, Santiago, Chile
Junior Engineer

Project Experience

Climate change: My experience in climate change focuses on analyzing climate change projections, their effects on hydrometeorological variables, and incorporating these projections according to the new guidelines issued by the Authority within the context of Environmental Impact Studies. This includes validating meteorological data, integrating climate change into conceptual hydrogeological models, estimating aquifer recharge, and supporting the Sustainability area regarding indices that evaluate companies (e.g., Dow Jones Sustainability Index). I have participated in specialized conferences and courses on climate change, staying updated on the latest methodologies and technologies.

Hydrogeological Models: I have experience in conceptual hydrogeological modeling and estimating aquifer recharge. I have participated in the generation and updating of hydrological and hydrogeological models. My work includes exploring VIC and Raven hydrological models to estimate aquifer recharge. My academic background has allowed me to develop a better understanding of hydrogeological models and their application in various contexts.

Environmental Studies: In the field of environmental studies, I have worked on projects that include Environmental Impact Assessment, generating conceptual hydrogeological models, and estimating aquifer recharge. I have worked on meteorological and hydrological characterization of various areas of interest, developing hydrological studies within the framework of the Environmental Evaluation System. Additionally, I have collaborated on the preparation of Environmental Monitoring Plans and Environmental Compliance Plans related to water resources. I have been responsible for reviewing technical documents and acting as a technical counterpart with consultants. My experience includes participating in environmental strategy projects and environmental compliance advisories. I have significant experience working with multidisciplinary teams, participating in field campaigns, and closely collaborating with local communities.