

Hydrogeology Research Engineer

Expertise Hydrogeological Modelling, Field Instrumentation, Groundwater–River Interactions, Saltwater Intrusions

Education Ph.D. (Hydrogeology), 2021
University of Montpellier, Montpellier, France
Master's degree (Geotechnics, Water, and Risks), 2014
University of Lorraine, Nancy, France
Engineering degree (Hydrogeology), 2014
ENSG, Nancy, France

Professional Experience

2026 – Present	ITASCA France, Rennes, France Hydrogeology Research Engineer
2025 – 2026	UMR Géosciences, Rennes, France Hydrogeologist, Postdoctoral Researcher
2022 – 2025	OSERen, Rennes, France Hydrogeologist, Postdoctoral Researcher
2017 – 2021	UMR LISAH / BRGM, Montpellier, France Hydrogeologist, Ph.D. Student
2016 – 2017	Veolia, Sur, Oman Hydrogeology Engineer
2015 – 2016	BRGM, Rouen, France Hydrogeology Engineer

Project Experience

Modelling of Groundwater Flooding and Saline Intrusion:

- Project “Archange” (PI: Luc Aquilina):
 - Led groundwater flooding modelling
 - Designed and monitored piezometer networks for data collection and validation.
 - Development of advanced models to simulate groundwater flooding and saline intrusion in coastal and low-lying areas.
 - Integration of hydrogeological data to assess risks and propose mitigation strategies.
- Project “Rivages Normands 2100” (PI: Luc Aquilina):
 - Developed groundwater flooding models to evaluate socioeconomic impacts in coastal regions focusing on long-term coastal resilience.

Hydrological Signatures of Karst Catchments:

- Spatial and multi-method study of the role of karst in flood generation across 120 catchments (Ph.D. Thesis, UMR LISAH / BRGM Montpellier, December 2017 – June 2021, supervised by Roger Moussa). Recipient of the First Prize for the 2021 BRGM Thesis Award.

Groundwater Management and Pollution Studies:

- Coastal wellfield management and groundwater optimization. On-site management of a 28-well coastal wellfield. Optimization of groundwater drawdown and design of future wells for sustainable extraction.
- Watershed and groundwater pollution studies for local authorities and regional health agencies. Expert reports on coastal aquifer systems and their management.