Hydrogeology Project Engineer

Expertise   Hydrogeology, Numerical modelling of flow and solute transport in porous and fractured media.

Education   PhD (Hydrogeology), Université Rennes, France, 2019
MS (Hydrogeology), Université Poitiers, France, 2016

Professional Experience

2024 – present   *Itasca Consultants S.A.S., Lyon, France*
Hydrogeology project engineer

2021 – 2024   *Fractory – joint laboratory Itasca Consultants s.a.s. CNRS and University of Rennes, France, Research Engineer*

2016 – 2019   *Géosciences Rennes, Université Rennes, France, PhD Student*

2016   *Géosciences Rennes, CNRS, France, Intern.*

2015   *IC2MP, Université Poitiers, France, Intern.*

Project Experience

Research and Development: river/aquifer interaction modelling, analysis of fractured medium hydraulic properties, upscaling procedure for DFN approaches

Teaching: Master's degree teaching hydrogeology base concepts and numerical modelling using Modflow.

Numerical Development: Python code for numerical flow simulation at hillslope scale.

Projects

Research and Development

- DFN to ECPM transformation method development and analysis. (Research Engineer).

- Development of a 1.5D numerical model of shallow flow at hillslope scale assuming Boussinesq Approximation for river flow modelling and management at catchment scale in Brittany, France. (PhD).

- Modelling of the connection between tiltmeter data and recharge processes in fractured media. (second internship).

- Pathfinding algorithm applied numerically to porosity measurement in a karstic formation for transport analysis (first internship).