

Hydrogeological Engineer

Expertise

Numerical Modeling of Fractured Media

Education

Ph.D., Earth Sciences (Hydrogeology), 2010
University of Rennes, France

Engineering Diploma, Computer Sciences, 2005
Institut National des Sciences Appliquées de Rennes, France

Professional Experience

2010 – Present

Itasca Consultants S.A., Ecully, France
Research Engineer

2007 – 2009

Itasca Consultants S.A., Ecully, France
Engineer / Research Student

2007 – 2009

Géosciences Rennes, Université de Rennes, France
Engineer / Research Student

2005 – 2006

Géosciences Rennes, Université de Rennes, France
Research Assistant

2004

Institut National de la Recherche Agronomique (INRA), Rennes, France
Research Student

Project Experience

Discrete Fracture Networks: Discrete Investigating the impact of Discrete Fracture Networks on flow and mechanical properties applied to the mining industry (Mass Mining Technology II). Geo-DFN modeling applied to site characterization at Forsmark and Simpevarp (Sweden), two candidate sites for a nuclear waste repository.

Software Development: Development of software for solving the inverse problem in hydrogeology. Identification of main flow structures in highly channeled media. Contribution to the development of H2OLAB software for modeling fracture media (structure and flow).

Research: Study of the inverse problem in hydrogeology applied to porous media. Development of a quasi-Newton procedure.