

Jordi Batlle-Aguilar B.Sc. M.Sc. PhD.
Senior Hydrogeologist
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Overview

Jordi has 15 years' experience in hydrogeology in the application of innovative hydrogeological techniques to support water resources assessment, as well as human health and ecological risk. Jordi has expertise in multiple disciplines in hydrogeology including surface water–groundwater interaction, site investigation, use of environmental tracers and hydrogeochemistry to determine recharge rates, sources and cross-contamination between aquifers, estimating fluid flow and solute transport in aquifers and aquitards, design and implementation of groundwater monitoring networks, development of conceptual models and groundwater modelling. Jordi has an unparalleled wealth of knowledge and skills in fieldwork hydrogeology thanks to having worked on a rich variety of projects, environments and climatic/geographic settings, from urban Europe (Spain, France, Belgium, Switzerland and Romania) to remote areas of Africa, the central plains of the United States of America and Australia.

Jordi's organisational skills are a paramount asset for his daily work either in the field or in the office. Since 2004, Jordi has used numerical approaches for the understanding of regional and local aquifers and to support groundwater resource management. This includes two- and three-dimensional groundwater modelling approaches using MODFLOW, MODFLOW-USG and MT3MDS (both without GUIs and using Groundwater Vistas, PMWIN and GMS environments), SEAWAT, HYDRUS, AlgoMesh and PEST (including PEST++ suite).

Prior to joining IGS Jordi was an assistant scientist at the Kansas Geological Survey (Kansas, USA) where he coordinated fundamental and applied research projects on groundwater quality and hydrogeology, of both national and local significance. During that time Jordi also supported the Kansas Geological Survey's efforts in the areas of technical service and communication, education and public information, routinely collaborating with local stakeholders, water districts and state water agencies. Jordi has comprehensively published in international peer-reviewed journals, presented at numerous international conferences and authored several project reports.

Qualifications

2008 PhD.

University of Liège, Belgium

Thesis: Groundwater flow and contaminant transport in an alluvial aquifer: in-situ investigation and modelling of a brownfield with strong groundwater – surface water interactions

2003 M.Sc.

University of Paris XI, France

Thesis: Axisymmetrical infiltration in soil imaged by non-invasive electrical resistivity

2000 B.Sc. Geology

University of Barcelona, Spain

Employment history

October 2017 – present

Senior Hydrogeologist: Innovative Groundwater Solutions Pty Ltd.

September 2017 – October 2017

Noble Gas Laboratory Technician: CSIRO, Australia

December 2014 – July 2017

Assistant Scientist: Kansas Geological Survey, USA

July 2010 – November 2014

Research Fellow: National Centre for Groundwater Research and Training (NCGRT), Flinders University, Australia

October 2008 – June 2010

Postdoctoral Fellow: Ecological Engineering Laboratory, École Polytechnique Fédérale de Lausanne, Switzerland

Competencies

- May 2021: Operate vehicles in the field (PMASUP236), Construction Industry Training Centre
- Mar 2021: Provide First Aid (HLTAID003), Provide Basic Emergency Life Support (HLTAID002), Provide Cardiopulmonary Resuscitation (HLTAID001), St John
- Oct 2017: Energy and Infrastructure Remote Area 2 (ENFREM2), Adventure 4WD