

Project Hydrogeologist

Expertise Forward/Inverse Groundwater Flow/Contaminant Transport Modeling and Software Development

Education Ph.D. (Hydrology and Water Resources), 2007, University of Arizona
M.S. (Earth Sciences), 1995, Nanjing University, P.R. China
B.S. (Earth Sciences), 1992

Professional Experience

2008 – Present *Itasca Denver, Inc., Colorado*
Project Hydrogeologist

2007 – 2008 *University of Arizona, Department of Hydrology and Water Resources*
Postdoctoral Research Associate

2002 – 2007 *University of Arizona, Department of Hydrology and Water Resources*
Graduate Research Assistant

1995 – 2001 *East China Electric Power Design Institute*
Engineer/Project Manager

Project Experience

Developed and implemented two-dimensional and three-dimensional numerical flow and contaminant transport models to design field pumping and mine dewatering programs, and to assess associated environmental impacts. Experience in pumping tests, borehole logging, water sampling, monitoring network design and pumping strategy optimization.

Research Experience

Developed a graphical user-interface for two-dimensional and three-dimensional forward/inverse groundwater models using C#, a two-dimensional hydraulic and tracer inverse modeling code, a river-stage tomography model, a method for wavelet denoising and fuzzy comparison performance assessment, and a method to estimate effective hydraulic properties, boundary conditions and stochastic properties.