

Project Hydrogeologist

Expertise Groundwater and Surface-Water Modeling, Hydrogeophysics

Education Ph.D. (Hydrology), 2013, Colorado School of Mines, Golden
M.S. (Hydrology), 2010
B.S. (Geology and Geological Engineering), 2009

Professional Affiliations American Geophysical Union, Geologic Society of America

Certifications Engineer in Training (EIT), Colorado, 2008

Professional Experience

2013 – Present *Itasca Denver, Inc., Colorado*
Project Hydrogeologist

2012 – 2013 *Colorado School of Mines, Dept. of Geology and Geologic Engineering*
Graduate Student Professor

2009 – 2012 *Colorado School of Mines, Dept. of Geology and Geologic Engineering*
Teaching and Research Assistant

Project Experience

Developed three-dimensional numerical groundwater flow and contamination transport models. Experience includes working on projects of mine dewatering, re-infiltration and contamination. Numerical modeling experience includes *MODFLOW* and *MT3D* while using Groundwater Vistas as an interface.

Research Experience

Developed groundwater and surface-water models to address the impacts of subsurface hydraulic conductivity heterogeneity. Created numerical models to describe groundwater flow between large fractures and porous media in karst systems. Developed numerical simulations of subsurface karst groundwater flow to analyze field hydrogeophysical data. Designed a method to estimate groundwater and surface-water fractions using hydrogeophysics.