



Ana R. Cantu, GIT Hydrogeologist II

Education

M.S. Hydrology, Colorado School of Mines, Spring 2026

B.S. Geosystems Engineering and Hydrogeology, The University of Texas at Austin, May 2018

Certifications

Geoscientist in Training:

- *Texas #GIT-534*

Engineer in Training:

- *Texas #74177*
- *Colorado #79562*

Professional Organizations

Colorado Groundwater Association

- *Member since 2024*

International Association of Hydrogeologists

- *Member since 2024*

National Groundwater Association

Training Courses

- *Predictive groundwater modeling with PEST/PEST++*

Relevant Coursework

- *Mathematical Modeling of Groundwater Systems*
- *Field Methods in Hydrology*
- *Geological Data Analysis*
- *Applications of Geographic Information Systems*
- *Advanced Data Science*
- *Hydrogeophysics*
- *Groundwater Engineering*

Ana Cantu is a hydrogeologist specializing in GIS analysis and mining hydrogeology. Ms. Cantu uses her programming skills to develop reproducible workflows related to groundwater modeling for all phases of the project, from groundwater model development, parameter calibration, and results visualization and interpretation. Ms. Cantu supports BAS Groundwater Consulting INC (BAS) with knowledge of programming to visualize geologic and hydrologic data sets, obtained from the field and through modeling, into informative figures for clients.

In her graduate studies, Ms. Cantu setup up a groundwater model (ParFlow) and transport model (SLIM-FAST) for the macrodispersion experiment (MADE) site in a high-performance computing system. Ms. Cantu calibrated parameters of the ADE transport model and a non-local transport model using PEST++/IES.

Areas of Expertise

- Numerical Groundwater Flow and Transport Modeling
- Geographic Information Systems (GIS) Development
- Python Programming for Data Analysis

Recent Employment History

BAS Groundwater Consulting – Evergreen, CO
Hydrogeologist II / Modeler (August 2024 – present)

- Analyzing data related to mining sites for use in GWVistas, and processing results for visualization.

INTERA Inc. – Richland, WA
Groundwater Modeling Intern (Summer 2024)

- Developed transport model at Hanford site in STOMP under supervision and checked statistics reports.

INTERA Inc. – Albuquerque, NM
Geologist/Engineer Intern (Summer 2023)

- Collected well water levels and groundwater samples at contaminated sites and ensured proper recordkeeping.

References

Thesis Advisor: Dr. David Benson, dbenson@mines.edu, ph: 303-273-3806