

# PIONEER WOMEN OF GEOPHYSICS

## KAMINI SINGHA



### Education and First Job

**Education:** Ph.D., Hydrogeology, Stanford University

**Ph.D. Advisor** Professor Steven Gorelick

**Dissertation Topic:** Imaging solute transport processes using electrical geophysical methods

**First job as a geoscientist:** Student Trainee in the Branch of Geophysics at the U.S Geological Survey

### Ways Kamini makes an impact

**An active promoter of underrepresented students in STEM:**

- Developed and ran geoscience programs supporting minorities:
  - “Mining for Talent” in Golden, Colorado
  - Penn State Hydrogeophysics Field Experience REU
- Student Advisor at UNAVCO's Research Experience in Solid Earth System Science

**A leader in Hydrogeophysics:**

- Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI)
  - Member of the Board of Directors
  - Co-organizer of Techniques for Stream-Groundwater Investigations
- Associate Editor at Water Resources Research
- Member of the AGU Hydrogeophysics Committee

### IN ACTION



Drilling small piezometers



In the field in Ghana



Hydrogeophysics Field Experience



Drilling wells



Installing multi-lever samplers



Sampling surface water

### How Kamini is employed

**The Colorado School of Mines:**

- Associate Department Head of the Department of Geology and Geological Engineering in 2016
- Professor in Geology and Geological Engineering, and Civil and Environmental Engineering in 2016
- Associate Director of the Hydrologic Science and Engineering Program in 2014
- Associate Professor in Geology and Geological Engineering, and Civil and Environmental Engineering in 2012

**The Pennsylvania State University:**

- Associate Professor in Geosciences in 2011
- Assistant Professor in Geosciences in 2005