



**Academic Experience**

- ▶ 2019-present: Hammond Distinguished Professor, UTSA
- ▶ 2017-18: Halbouty Visiting Chair Professor, Texas A&M
- ▶ 2008-19: Asst., Assoc., and Professor, Kansas State University
- ▶ 2004-08: Asst. Professor, Georgia College and State University
- ▶ 2005-06: Assoc. Professor, University of Calcutta
- ▶ 2001-04: Earth Sciences Mellon-Barnard, Earth Institute Fellow, Columbia University
- ▶ 2001: Ph.D., University of Western Ontario, Canada
- ▶ 1995: M.S., University of Calcutta, India
- ▶ 1993: B.S., University of Calcutta, India

**Current Research**

Aqueous Bio-Geochemistry of Lava (Volcanic) Tube Caves: Terrestrial Analog for Moon, Mars and Other Rocky Planetary Bodies



Trace Element Biogeochemistry in Waters



Groundwater Contamination and Assessment and Solid Phase Speciation of Oxyanions



Lead Isotopes as Exposure Tracer in Children's Blood



Geologic CO<sub>2</sub> Capture and Drinking Water Security



**Research Interests**

Our research focuses on issues of water resources, water availability, and understanding the cycling of different metals and organic compounds in our groundwaters, surface waters, soils, and sediments, as well as how land use pattern changes affect the distribution of such metals and pollutants in our environments. Our research projects have links to health impact assessments, targeting both human and ecosystem health.

**Lab website:** <http://www.utsa.edu/geosci/faculty/DattaLab/>

**Laboratory Capabilities**

**Analytical:** IRMS-Stable Isotope; Thermo-Dionex Ion Chromatogram, Shimadzu TOC-L-TDN Analyser, Horiba AquaLog Spectrometer, HACH UV-VIS Spectrophotometers, Agilent ICP-OES, NeXioN ICP-MS, Thermo-GCMS, Horiba HydroLab, ODLAB Acid Purification System, Laminar FlowHood with Exhaust and anaerobic chambers, Microwave Digestion System and other wet lab and field apparatuses.

**Teaching** (current courses)

Aqueous Geochemistry

**Research Sponsors**

