Jannatul Ferdous
Email: JANNA2L@YAHOO.COM

Education

Ph.D.	**Geology:**	University of Houston	**August 2018 (Expected)**

GPA: 3.83
Research topic: High temperature geochemistry.
Advisor: Dr. Alan Brandon

M.S. **Geology:** University of Dhaka, Bangladesh **May 2012**
GPA: 3.8 (1st position)
Thesis: Assessing risk of arsenic transport in Dhaka City groundwater.
Advisor: Dr. Kazi Matin Ahmed
Major courses: Depositional System, Well-log Geophysics, Hydro-geochemistry,
GW Resource Management, Hazards & Waste Management.

B.S. **Geology:** University of Dhaka, Bangladesh **August 2010**
GPA: 3.58 (1st position)
Selected major courses: Geochemistry, Geophysics, Hydrogeology,
Petroleum Geology, Engineering & Mining Geology, GIS, Remote Sensing,
Mineralogy, Structural Geology, Sedimentology, Petrography (Ign, Sed, Met), Stratigraphy.

Academic Achievements

- Graduate student Tuition Fellowship (GTF), University of Houston **Jan 2015- Present**
- Outstanding Academic Achievements Scholarship, University of Houston **May 2015**
- EPP fellowship at EAWAG, Switzerland **Fall 2011**
- Dean Award for academic excellence, University of Dhaka **2011**
- Prime Minister Gold Medal for academic excellence **2010**
- University Grant Commission Scholarship **2008**
- Govt. Scholarship for outstanding academic performance **2006-2011**

Research Experiences

- **Lab analysis-** Mineral identification and picking, **July 2015- Present**
  grain mounting, sample preparation.

- **ICP-MS lab training, Lab safety training,** **Feb- May 2014**
  University of Houston- Various rock digestions,
  trace & major element analysis.

- **MS thesis completion at EAWAG,** **Fall 2011**
  Swiss Federal Institute of Aquatic Science and Technology,
  Switzerland- data construction using ArcGIS for Logistic Regression
  Model, lithology & arsenic data analysis, prepared depth layer
  & probability maps, ROC curves, calibration, risk analysis.

- **Field works-** Structural dip-strike measurement, geological map **2006-2011**
  construction, well-site monitoring, groundwater EC, Eh, pH, temperature,
  dissolved O_2, turbidity, alkalinity measurement.

- **Lab works-** seismic maps, well-logs interpretation and data analysis, rock, **2006-2011**

mineral & fossil identification in hand specimen and thin sections.

Computer skills

- **Software-** MELTS, ArcGIS, ERDAS IMAGINE, RockWare, Microsoft Office.

- **Programming language-** Python, MATLAB.

Work Experiences

- **Teaching Assistant-** Physical Geology, Petrography   **Jan 2015- present**

- **Retail Sales Associate-** GAP Inc. (Old Navy).   **Feb-Dec 2014**
  Attended customers, cash register handing,
  price markdown, ticketing, merchandizing.

- **Customer Service Representative-** Jack in the Box.   **Sep-Nov 2013**
  Attended customers in the front & drive through,
  cash register handling.

Membership

- Society of Exploration Geophysics (SEG)   **Present**
- American Association of Petroleum Geologists (AAPG)   **Present**
- Houston Geophysical Society (HGS)   **Present**

Extracurricular Activities

- Volunteer at various geological conferences, seminars and workshops   **2006- 2012**
- Former participant at the inter school science fair competition   **2003, 1999, 1995**

Publications

- **Ferdous, J.,** Ahmed, K.M., Sultana, S., Amini, M., Berg, M. and Johnston, R. (2013) - Assessing the risk of arsenic transport in the upper Dupi Tila aquifer of Dhaka city from the surrounding shallow aquifers. JGWR (ISSN: 2321- 4783) vol2, Issue1, June 2013 by AGGS, India.

- **Ferdous, J.,** Ahmed, K.M., Sultana, S., Amini, M., Berg, M. and Johnston, R. (2012) - Using logistic regression to model arsenic risk in Dhaka city, Bangladesh. Sandac News vol.13 of EAWAG, Switzerland.

- Abstract published in Fifth International Groundwater Conference Paper, Vol4 (IGWC-2012), India.