

Sajjad Ghulam Ali

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EDUCATION:

Texas A&M University, College Station, TX

- **Masters of Science in Civil Engineering** **December 2010**
 - Environmental Engineering Specialty
 - Cumulative GPA: 3.67
- **Bachelor of Science in Civil Engineering** **December 2008**
 - GPA: 2.79 (cumulative), 3.01 (major)

CERTIFICATION:

Engineer-In-Training (EIT)

- Passed the *Fundamentals of Engineering* exam. 2008

RESEARCH EXPERIENCE:

Graduate Research Assistant

June 2009-present

- Applied global and regional air quality and dispersion models to simulate air pollution episodes in Mexico City
- Performed major simulations using GEOS-Chem and CMAQ along with particle trajectory analysis with HYSPLIT
- 1 conference abstract submitted, 1 journal publication in progress

Undergraduate Directed Research Assistant

August 2008-December 2008

- Prepared laboratory experiments and recorded data on production of biofuels from wastewater

ACADEMIC PROJECTS:

- Prepared a report with detailed summary of various environmental regulations in the United States
- Designed a water treatment system that can be constructed and operated for under \$10 per year
- Conducted a human health risk assessment study of Air Force Plant #4 site in the Dallas/Fort Worth area to identify toxic substances, their exposure to the surroundings, and the characterized risk of their toxicity
- Designed a retrofitting scheme to the TRA CRWS wastewater treatment facility in the Dallas/Fort Worth area for enhanced removal of biological pollutants from the water
- Drafted a GIS-based study to assess Quality of Life index for College Station
- Collaborated on a Low Impact Development application towards an existing residence in College Station, TX
- Performed a cumulative cost estimation of a proposed commercial complex project in Bethlehem, PA

SKILLS:

Programming: FORTRAN, MATLAB, C++, JAVA.

Software: Microsoft Office, Macromedia Dreamweaver, AutoCAD, ArcGIS, HEC-HMS, Minitab, EES.

Language: Fluent in **URDU** and **ENGLISH**; Basics in **ARABIC** and **SPANISH**.

HONORS:

Scholarships: Academic Excellence Scholarship; Industrial Scholars Interns Program Scholarship

Honor Societies: Alpha Lambda Delta; Phi Eta Sigma

EXTRACURRICULAR ACTIVITIES:

American Society of Civil Engineers (ASCE)

2004-2010

- Recruiter

2004-2005

Student Government Association

Environmental Issues Committee

2005-2010

- Director of External Events(2005-2007); Director of Internal Events (2007-2008); Webmaster (2007-2008)

American Water Resources Association (AWRA)

2008-2010

- Webmaster

2009-2010

Residence Hall Association

- Environmental Liaison

2008-2009

Texas A&M Sustainability Council

2010