

# SHAILY RAHMAN

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**PROFILE:** Motivated scientist with excellent communication, analytical, quantitative, and technical skills; strong educational background in chemistry, geochemistry, and environmental science; work experience in radiation health physics, risk assessment, and environmental consulting; demonstrated ability to work well both independently and in groups.

## RELEVANT EXPERIENCE

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### Research Associate/Environmental Scientist

2004 - 2007

RWMA, New York, NY

- Analyzed and interpreted environmental monitoring, chemical, and toxicological data and information (i.e. water quality, air quality, soil studies, hydrogeological studies)
- Predicted preliminary impacts from chemicals of concern and transport of contaminants through various media
- Conducted historical and preliminary Site Assessments
- Reviewed and evaluated Site Proposals against state and federal environmental regulations and permitting
- Prepared reports of data analyses and interpretations, radiation and contaminant exposures, and risk assessments for clients
- Reconstructed and calculated doses for clients exposed to toxic materials using raw data, prior risk assessments, and scientific reports
- Assessed risks and impacts to human health and the environment from release of contaminants of concern (organics, heavy metals, radionuclides)
- Researched, critiqued and evaluated information and data in research papers, hydrological studies, scientific articles, Environmental Assessments, Safety Analysis Reports, Environmental Impact Assessments, and remediation proposals and alternatives
- Supervised junior staff members and interns

### Education Design Consultant/Tomlinson Teaching Fellow

2002 - 2003

Tomlinson Science Undergraduate Teaching Project, McGill University, Montreal, Quebec

- Received formal instruction and preparation in instructional design, education theory, assessment methods, and teaching strategies (4 months)
- Performed a needs- assessment of Science Teaching Assistants' teaching and grading or evaluation requirements by surveying faculty and graduate students in the Sciences (duration: 2 months)
- Developed and designed activities for day-long teaching development workshop for Science Teaching Assistants (5 months) to target their teaching needs and limitations
- Co-facilitated McGill University's first pilot TA teaching development workshop for ~40 students (2 days; 20 TAs/day)

### Teaching Assistant

2000 - 2002

Department of Chemistry, McGill University, Montreal, Quebec

- Monitored and conducted weekly lab experiments and graded weekly reports for a second year organic chemistry laboratory

## EDUCATION

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- Doctoral Candidate (Geochemistry/Sediment Diagenesis)** **2007 - Current**  
SUNY - Stony Brook, Stony Brook, NY, USA
- National Ground Water Association - The MODFLOW Course (3.2 CEU)** **October 2006**
- Master of Science (Geochemistry/Environmental Chemistry)** **2000 - 2003**  
Thesis submitted 09/03, McGill University, Montreal, Quebec
- John B. Lynch Scholarship (amount - 10 000 CD), awarded to a graduate student in top 10% of class
  - Coursework: Hydrogeology, Geoenvironmental Engineering, Aqueous Geochemistry, Chemical Oceanography
- Bachelor of Science (Chemistry with Environmental Option; Minor - Mathematics)** **1997 - 2000**  
McGill University, Montreal, Quebec
- Environmental Option: completed 5 courses in environmental sciences; such as Environmental Chemistry, Environmental Systems, Atmospheric Chemistry
  - Completed several practical and theoretical upper-level courses in analytical chemistry and instrumentation ( 5 courses)
- Bachelor of Science (Biochemistry; Minor: Mathematics and French)** **1995 - 1997**  
Indiana University, Bloomington, IN, USA  
Completed 2 yrs (Honors) of a 4 yr B.Sc. (Biochemistry; Minor - Mathematics & French)

## SKILLS

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### TECHNICAL & ANALYTICAL SKILLS

Extensive use of AAS, including hydride generation and flow injection methods.  
Experience in use of FTIR, GC, HPLC, UV/Vis, Light Scattering, Molecular Fluorescence, and AES.  
Extensive use of electrochemical techniques during method development for determination of metal speciation using ASV and PSA, including fabrication and maintenance of electrodes.

### COMPUTER SKILLS LANGUAGES

MS Excel, MS Word, MS PowerPoint, Quatro Pro, MODFLOW  
Fluent in English, French (competent), Hindi (basic)

## OTHER ACTIVITIES AND INTERESTS

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- Restaurant Reviewer** "Mystery Diner" for a small restaurant review company in NY
- Sketching** Beginner level; charcoal and pastels
- Reading** 19th century Western Lit., Contemporary Lit.

REFERENCES AVAILABLE UPON REQUEST