

CURRICULUM VITAE

SHIFA MOHAMMED RAZZAQ SHAIKH,

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➤ EXECUTIVE SUMMARY

Assiduous Research Assistant having around 4 years of Experience contributing to scientific discoveries in the fields of Industrial Wastewater Treatment, Colloids and Interfaces, Rheology of Complex Fluids, Natural Gas and Food Toxicology. Specializes in Laboratory Research, Statistical Analysis and Journal Publications.

➤ KEY SKILLS

- Excellent writing and research skills – generating proficient research articles, lab reports, newsletters, etc.
- Proficient in Analytical laboratory techniques and general laboratory practices and techniques
- Effective Presentation and Teaching skills
- Comprehensive Knowledge in Microsoft Office applications (Microsoft Word, Excel, PowerPoint, etc.) and Windows Operating Systems (Windows XP, Windows Vista, Windows 7, Windows 10)
- Noteworthy Organizational and leadership skills, Event Management
- Strategic Team Player
- Cultural Sensitivity

➤ PROFESSIONAL EXPERIENCE

2017-2019

Research Assistant at **Gas Processing Centre, Qatar University**

Projects Undertaken as Research Assistant:

- Siemens Sour Gas Treatment Scholarship
- Adsorption of organic pollutants by clays
- Adsorption of CO₂, CH₄ and N₂ on carbonate reservoir rocks

2017

Master's Thesis on "*Investigation of Electrokinetic and Rheological Behaviors of Flocculated Polyelectrolytes-Bentonite Dispersions*" (**MS program in Environmental Engineering, Qatar University**)

2015-2017

Graduate Research Assistant at **Gas Processing Centre, Qatar University**

Projects Undertaken as Graduate Research Assistant:

- Electrokinetic, Flocculation and Rheological Behaviors of Clay - Polyelectrolyte Suspensions

- 2014** Undergraduate Senior Project on “*Analysis of Pesticides in Foodstuffs by Gas Chromatography Mass Spectrometry: Evaluation of Various Extraction Procedures*”
(Department of Chemistry and Earth Sciences, Qatar University)
- 2013-14** Media Coordinator in Honors Students Association **(The Honors Program, Qatar University)**
- 2013** Summer Training at **Anti-Doping Lab Qatar**
- 2013** Supplementary Instructor at the **Students Learning Support Centre, Qatar University for General Chemistry I**
- 2012-13** Treasurer in Honors Students Association **(The Honors Program, Qatar University)**

➤ INSTRUMENTATION EXPERIENCE

- UV-Visible Spectrophotometry
- Infrared (FTIR) Spectrophotometry
- High Performance Liquid Chromatography-Mass Spectrometer (HPLC-QQQ)
- Gas Chromatography-Mass Spectrometer (GC-MS)
- Accelerated Solvent Extraction (ASE)
- Zetasizer Nano ZS Dedicated Zeta Potential Analyzer
- Mastersizer 3000 Laser Diffraction Particle Size Analyzer
- Modular Compact Rheometer (MCR 302)

➤ AWARDS & PUBLICATIONS

- Awad, A. M., **Shaikh, S. M. R.**, Jalab, R., Gulied, M. H., Nasser, M. S., Benamor, A., & Adham, S. (2019). Adsorption of organic pollutants by natural and modified clays: A comprehensive review. *Separation and Purification Technology*, 228, 115719. [**Elsevier, Impact Factor: 5.774**]
- Nasser, M., **Shaikh, S.**, & Benamor, A. (2019, March, Orlando Florida meeting). Effect of electrolyte type and concentration on the Electrokinetic behaviour of clay-polyelectrolyte dispersions. In *Abstracts of Papers of The American Chemical Society (Vol. 257)*. 1155 16th St, NW, Washington, Dc 20036 USA: Amer Chemical Soc.
- **Shaikh, S. M. R.**, Nasser, M. S., Magzoub, M., Benamor, A., Hussein, I. A., El-Naas, M. H., & Qiblawey, H. (2018). Effect of electrolytes on electrokinetics and flocculation behavior of bentonite-polyacrylamide dispersions. *Applied Clay Science*, 158, 46–54. [**Elsevier, Impact Factor: 4.605**]

- **Shaikh, S. M. R.**, Nasser, M., Hussein, I. A., & Benamor, A. (2017). Investigation of the effect of polyelectrolyte structure and type on the electrokinetics and flocculation behavior of bentonite dispersions. *Chemical Engineering Journal*, 311, 265–276. **[Elsevier, Impact Factor: 10.652]**
- **Shaikh, S. M. R.**, Nasser, M. S., Hussein, I., Benamor, A., Onaizi, S. A., & Qiblawey, H. (2017). Influence of polyelectrolytes and other polymer complexes on the flocculation and rheological behaviors of clay minerals: A comprehensive review. *Separation and Purification Technology*, 187, 137–161. **[Elsevier, Impact Factor: 5.774]**
- **Shaikh, S.**, Nasser, M. S., Benamor, A., Hussein. I.A., 2016. Effect of Charge Type and Density of Polyacrylamide on the Electrokinetics Behavior of Flocculated Bentonite Suspensions. *AIChE*, November 13-18, 2016, San Francisco, CA, United States.
- **Shaikh, S.M.R.** (2017). Investigation of Electrokinetic and Rheological Behaviors of Flocculated Polyelectrolytes-Bentonite Dispersions (published Master’s thesis). Qatar University, Doha, Qatar.

Awards Pertinent to above publication:

- Best Thesis Award (Masters) - **5th Oryx GTL Student Awards 2018**
- Outstanding Thesis Award (Masters) in College of Engineering - **Qatar University Annual Research Forum 2018**
- Al-Saad, K.A., **Shaikh, S.M.**, Hersi, S.S., Abbas, E., Bader, N.M., Ramadan, A.A., Shomar, B., 2016. Extraction and Analysis of Carbamate and Pyrethroid Pesticides in Tomatoes and Rice by Gas Chromatography Mass Spectrometry. In *Qatar Foundation Annual Research Conference Proceedings* (Vol. 2016, Issue 1), March 2016, Doha, Qatar.
- **Shaikh, S.M.R.** (2014). Extraction and Analysis of Pyrethroid Pesticides in Rice by Gas Chromatography Mass Spectrometry (undergraduate thesis). Qatar University, Doha, Qatar.

Awards Pertinent to above publication:

- Best Thesis Award (Undergraduate) – **Qatar University Honors Program End of Year Event 2014**
- 2nd position – Poster competition, **Department of Chemistry and Earth Sciences, College of Arts and Sciences, Qatar University, Doha, Qatar.**

➤ **WORKSHOPS & CONFERENCES ATTENDED**

2017 Natural Gas Processing training Course (**Professional Development Course, Gas Processing Centre, Qatar University**)

- 2016** Oral Presentation: Effect of polyacrylamide charge type and density on the degree of flocculation of bentonite dispersions, 5th International Gas Processing Symposium, **Qatar University, Doha-Qatar.**
- 2016** Poster competition: Extraction and Analysis of Carbamate Pesticides in Tomatoes by Gas Chromatography Mass Spectrometry, **Qatar Foundation Annual Research Conference 2016 (ARC'16), Doha-Qatar.**
- 2013** 10th Natural Gas Conversion Symposium (NGCS 10), Doha-Qatar.
- 2013** Royal Society of Chemistry Second Gulf Symposium - Materials and Chemistry for New Energy Technologies, **Qatar University, Doha-Qatar.**
- 2011** International Year for Chemistry Celebrations, **Qatar University, Doha-Qatar.**

➤ **ACADEMIC QUALIFICATIONS**

- 2017** MSc. Environmental Engineering, **Qatar University**
- 2015** BSc. (Hons) Chemistry, **Qatar University**
- 2010** High School, **DPS-Modern Indian School, Qatar**

➤ **PERSONAL INFORMATION**

- Date of Birth** 2 July 1992
- Nationality** Indian
- Languages** English, Urdu, Hindi
- Address** Al Bukhari Street, Street # 830, Zone # 25, Al Mansoura, Doha-Qatar.
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- Google Scholar Profile** <https://scholar.google.com/citations?user=GueGUjUAAAAJ&hl=en>

➤ **REFERENCES**

- **Name:** Dr. Mustafa Saleh Nasser
Position: Associate Research Professor, Gas Processing Centre
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- **Name:** Dr. Abdelbaki Benamor

Position: Associate Research Professor, Gas Processing Centre

Organization: Qatar University

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- **Name:** Prof. Muftah El-Naas

Position: Gas Processing Centre Director / QAFCO Chair Professor in Chemical Process Engineering

Organization: Qatar University

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- **Name:** Dr. Ibnelwaleed Ali Hussein

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