

Aafia Sheikh

House no 311 Kashmir Road, Sialkot, Punjab 51310, Pakistan

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EDUCATION

Doctor of Philosophy: Physical Chemistry <i>Forman Christian College (A Chartered University)</i> <i>Lahore, Pakistan</i>	<i>Graduated: Nov 2023</i> CGPA: 3.61
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Masters of Philosophy: Physical Chemistry <i>Forman Christian College (A Chartered University)</i> <i>Lahore, Pakistan</i>	<i>Graduated: Nov 2013</i> CGPA: 3.71
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Masters of Chemistry: Physical Chemistry <i>Quaid-i-Azam University</i> <i>Islamabad, Pakistan</i>	<i>Graduated: Feb 2001</i>
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Bachelors of Science: Chemistry, Physics and General Mathematics <i>The University of Punjab, Pakistan</i>	<i>Graduated: Jul 1998</i>
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Awards and Honours

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| ➤ Cum Laude (PhD) | 2023 |
| ➤ Magna Cum Laude (MPhil) | 2013 |
| ➤ President Talent Scholarship (MSc) | 2001 |

Research

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- Interaction, Dynamics and Speciation in Binary Solution of Choline Based Green Solvents with Molecular Solvents (PhD)
 - Deposition and Characterization of Polyaniline Thin Films (MPhil)
 - Potentiometric Determination of Selectivity of Solvent Based Polymeric Membranes Using Potassium Tetrakis 4-Chloro Phenyl Borate (MSc)

WORK EXPERIENCE

Government College Women University, Sialkot, Punjab, Pakistan

- **Lecturer** (May 2015- present)
Working as full-time lecturer of Chemistry, deliver lecture to BS chemistry students with an insight into the concepts and applications; observe and conduct tests, grade exams and administer labs. Lahore University of Management Sciences, School of Science & Engineering Department of Chemistry, Lahore, Pakistan
- **Senior Lab Instructor** (Jan 2009 – May 2015)
Worked with the Department of Chemistry as a Senior Lab Instructor. Deliver lectures in lab to undergraduate students; supervise exams, grade exams, and conduct seminars. Government College for Women, Sambrial, Sialkot, Punjab, Pakistan.
- **Lecturer** (Sept 2002 – Mar 2007)
Worked as a full-time lecturer of Chemistry, deliver lectures on college chemistry with an insight into concepts and applications, observe tests, grade exams, conduct and administered college labs. Government College for Women, Sialkot, Punjab, Pakistan.
- **Honorary Lecturer** (May 2001 – May 2002)
Worked with Department of Chemistry as an honorary lecturer; deliver lecture to bachelor level students, oversaw tests, and compiled study material for students.

Conferences and Workshops

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| ➤ International Symposium on Nanomaterials- Potential Applications & Challenges | Sep 2013 |
| ➤ Chemical Trends 2013 | Oct 2013 |
| ➤ Chemical Trends 2014 | Sep 2014 |
| ➤ Workshop on Computational Chemistry | Jan 2014 |
| ➤ Workshop on Computational Chemistry | Jan 2016 |
| ➤ International Conference on Research Advancements in Chemistry | Aug 2024 |

- 4th International Conference on Chemical and Pharmaceutical Sciences: Innovation to Commercialization
Jan 2025

TECHNICAL & LANGUAGE SKILLS

- **Technical:** MS Office Suite: Excel, Word, PowerPoint, Origin, Chemdraw
- **Language:** Urdu, English, Punjabi (Conversational)

Publications

- Investigation of physicochemical properties of NADES based on choline chloride and ascorbic acid and its binary solutions with DMSO from (298.15 to 353.15) K
Aafia Sheikh, Iqra Saleem, Safeer Ahmed, Athar Yaseen Khan, Muhammad Abbas.
Journal of Molecular Liquids 364 (2022) 120038: <https://doi.org/10.1016/j.molliq.2022.120038>
- Physicochemical Properties of Choline Chloride/Acetic Acid as a Deep Eutectic Solvent and Its Binary Solutions with DMSO at 298.15 to 353.15 K
Aafia Sheikh, Athar Yaseen Khan, Safeer Ahmed.
ACS Omega. <https://doi.org/10.1021/acsomega.3c07739>
- Physicochemical properties of ammonium acetate / propionic acid as a novel deep eutectic solvent and its binary mixtures with water in (298.15–353.15) K range
Iqra Saleem, Aafia Sheikh, Athar Yaseen Khan, Safeer Ahmed, Muhammad Abbas.
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 313 (2024) 124144
<https://doi.org/10.1016/j.saa.2024.124144>
- Physicochemical properties of deep eutectic solvent choline chloride: Propionic acid (ChCl/PA DES) and its binary solutions with 1-butanol as cosolvent.
Aafia Sheikh, Ariel Hernandez, Athar Yaseen Khan, Safeer Ahmed Journal of Molecular Liquids 425 (2025) 127217 <https://doi.org/10.1016/j.molliq.2025.127217>

INTERESTS AND ACTIVITIES

- Book Reading, Teaching, Cooking, Hiking.

RECOMMENDATIONS – *References upon request*
