

Sana Javaid

Phd. Scholar (Chemistry)



sana.chem@pu.edu.pk

Office no. 23, School of Chemistry, Quaid-e-Azam Campus, Lahore

PROFESSIONAL QUALIFICATION

University of the Punjab, Lahore, Pakistan (2021- till date)

- Phd Scholar Chemistry.

Forman Christian College University, Lahore, Pakistan (2014-2016)

- Mphil Chemistry.

Forman Christian College University, Lahore, Pakistan (2010-2014)

- BS(Hons) Chemistry.

INSTRUMENTS & TECHNOLOGIES

- GC-MS
- GC-FID
- TGA/DSC
- Elemental Analyzer (CHNS)
- Atomic Absorption Spectrophotometer
- ICP-OES
- FT-IR
- UV-Visible Spectrophotometer

PROFESSIONAL EXPERIENCE

University of the Punjab, Lahore, Pakistan

“Lecturer Chemistry”, July 2025 – To date

Responsibilities/Accomplishments:

- Serving as Principal Investigator (PI) for the research project titled “Synthesis, Characterization, and Sensing Application of Bismuth-Based Metal–Organic Frameworks.”
- Delivering undergraduate-level Chemistry lectures effectively to BS (Hons) students, ensuring clarity of concepts and engagement in learning.
- Supervising and guiding students in performing laboratory experiments with accuracy, safety, and technical proficiency.
- Supervising final-year BS (Hons) students in their research projects.

Central Hi-Tech Lab, Government College University Faisalabad, Pakistan

“Research Officer” and **“Technical Evaluation Committee Member”**, December 2018 – July 2025

Responsibilities/Accomplishments:

- Effectively testing and characterization of various samples from research students, faculty members of different universities and industry by using various analytical instruments.
- Expertly carrying out testing through GC-MS, GC-FID, Atomic Absorption Spectrophotometer, ICP-OES, Elemental Analyzer (CHNS) and TGA/DSC.
- Expertise in method development for samples testing, standards preparations and evaluation of data and

report making from analytical instruments.

- Management of payment records, official letter writing, stock registers, chemicals record; cleanliness, check and balance of lab instruments and delivery of samples results.
- Experience of arranging workshops and training sessions of analytical instruments at Central Hi-Tech Lab.
- Efficient coordination with different companies for repair and maintenance of various analytical instruments.
- Logistical arrangements for procurement of gases purchase and analytical grade solvents, placement of purchase orders and supply orders for instruments.

Government College for Women, Faisalabad, Pakistan

“*Lecturer Chemistry*”, October 2018 – December 2018

Responsibilities/Accomplishments:

- Effectively delivering lecture to FSC (Pre-Medical, Pre-Engineering) and intermediate Computer Science students.
- Guiding and supervising students to skillfully perform lab work.
- Preparation of question papers for exam, performing invigilation duties and compilation of results.

Government College for Women, Faisalabad, Pakistan

“*Lecturer Chemistry*”, October 2017 – May 2018

Responsibilities/Accomplishments:

- Effectively delivering lecture to FSC (Pre-Medical, Pre-Engineering) and intermediate Computer Science students.
- Guiding and supervising students to skillfully perform lab work.
- Preparation of question papers for exam, performing invigilation duties and compilation of results.

University of the Punjab, Lahore, Pakistan

“*Visiting Faculty*”, November 2016 – March 2017

Responsibilities/Accomplishments:

- Effectively delivering lectures of Organic Chemistry to (Masters of Science) Education students.
- Guiding and supervising students to skillfully perform lab work.
- Preparation of question papers for exam, performing invigilation duties and compilation of results.

M Q Foundation High School, Lahore, Pakistan

Working as “*Senior Science Teacher*”, May 2016 – June 2017

Responsibilities/Accomplishments:

- Effectively delivering Chemistry lecture to science students (Middle, Matric and O’ Level students).
- Guiding and supervising students to skillfully perform lab work.
- Preparation of question papers for exam, performing invigilation duties and compilation of results.

PROFESSIONAL QUALIFICATION, TRAININGS AND CERTIFICATIONS

- **Food Safety Training Level 1** (Punjab Food Authority, Faisalabad, Pakistan) (23 May 2025).
-Certificate on Completion of Food Safety Training Level 1.

Agilent LC-MS Operational and Application Training (Central Hi-Tech Lab, Government College University, Faisalabad, Pakistan)

- Participated in Agilent LC-MS Operational and Application Training held on (2-3 November 2021).

TA Instruments DMA Q 800 Operational and Application Training Course (Central Hi-Tech Lab, Government College University, Faisalabad, Pakistan)

- Participated in TA Instruments DMA Q 800 Operational and Application Training Course held on (3rd September 2021).

Agilent GCMS-MS Operational and Application Training (Central Hi-Tech Lab, Government College University Faisalabad, Pakistan)

- Participated in Agilent GCMS-MS Operational and Application Training held on (15-16 July 2018).

International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability (University of Agriculture, Faisalabad, Pakistan)

- Participated in International Symposium on Technologies and Materials for Renewable Energy, Environment and Sustainability held on (6-7 February 2019).

Faisalabad Science Festival 2018 (Expo Centre, University of Agriculture, Faisalabad, Pakistan)

- Participated in Faisalabad Science Festival held on (3-4 May 2018).

Workshop on Computational Chemistry (Forman Christian College University, Lahore Pakistan)

- Participated in workshop on Computational Chemistry held on (20-22 January 2016).

Workshop on Chemometrics: Chemical Data Handling Tools (Forman Christian College University, Lahore Pakistan)

- Participated in workshop on Chemometrics: Chemical Data Handling Tools held on (16-17 October 2014).

SOCIAL WORK & CO-CURRICULAR ACTIVITIES

Nestle Healthy Women Program based on United Nations SDG 3, Good Health & Well Being (Forman Christian College University, Lahore Pakistan and Nestle Head Office, Lahore, Pakistan)

- Participated in Nestle Healthy Women Program “Empowering Women through Nutrition Awareness” held on (5th May 2016).

Tree Plantation Campaign 2018 based on United Nations SDG 15, Life on Land (Save and Serve Humanity, NGO, Pakistan)

- Participated in the national level Tree Plantation Campaign (2018) to enhance awareness attaining the SDG 15, Life on Land.

Social Enterprise and Community Development Program 2016 based on United Nations SDG 1, No Poverty (Akhwat Institute of Social Enterprise and Management, Lahore)

- Participated as fellow in Social Enterprise and Community Development Program 2016 (March-April 2016).

PROJECTS AND RESEARCH PAPERS

- Synthesis, Characterization and Sensing Applications Of Bismuth based Metal Organic Frameworks **(2025-to date)**.
- Review Article entitled Phytochemistry, Nutritional Potential and medicinal uses of *Ziziphus jujube* **(2019-2020)**.
- Synthesis, Characterization and Molecular Docking Studies of Phthalide Derivatives as Potential Carbonic Anhydrase Inhibitors **(2014-2016)**.

- Study of Some Natural Polymer Drug Systems for Drug Release **(2013-2014)**.
 - Review Article entitled Phytochemistry, Nutritional Potential and medicinal uses of *Ziziphus jujuba* selected for oral presentation at ICNP2020: 22th International Conference on Natural Products was held in London, United Kingdom during June 29-30, 2020.
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EXTRACURRICULAR ACTIVITIES

- Participation in Volcano Working Model and Water Cycle Model (Geography Society, Forman Christian College University, Lahore Pakistan).
 - Participation in Magazine making, Advertisement and Drama production (Urdu Department, Forman Christian College University, Lahore Pakistan).
 - Participation in Dramas and Tablos Competitions on the Eve of Mother's Day (Zaheer Ideal Public School and Laboratory Girls High School Faisalabad, Pakistan).
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AWARDS AND ACHIEVEMENTS

- Gold Medalist
Got Gold Medal securing 2nd Position in Faisalabad District in **2004** in 8th class.
 - Certificate of Distinction (Forman Christian College University, Lahore Pakistan)
Awarded the Certificate for exemplifying the Service **(2010-2014)**.
 - Certificate of Distinction (Forman Christian College University, Lahore Pakistan)
Awarded the Certificate for exemplifying the Core Values **(2010-2014)**.
Core Values of FCC are Integrity, Excellence, Respect for the Dignity of each Human Being, Discipline and Accountability, Fairness and Justice, Service and Community.
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SKILLS AND INTERESTS

- Computer: Word, Excel, Power Point, Picture Manager, Chem Draw, Chem Sketch, Hyper Chem, Lead IT.
- Languages: Urdu, English, Punjabi.
- Writing (Research Articles, Review Articles, Scripts, Drama and Autobiography).
- Designing and Event Organizing.
- Travelling