



Shanza Tariq

Nationality: Pakistani **Date of birth:** 21/02/1998 **Gender:** Female

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OBJECTIVES AND INTERESTS

Objectives

Dedicated and passionate Science educator with a Master's degree in Physics, specializing in innovative teaching methodologies and advanced research techniques. Seeking a teaching position at a reputed institution where I can utilize my strong background in science, expertise in laboratory equipment and technology, and commitment to student success to inspire and educate the next generation of scientists. Eager to contribute to the academic community by fostering a dynamic and engaging learning environment and supporting students in achieving their academic and professional goals.

WORK EXPERIENCE

English Language Teaching Assistant(ELTA)

English Language Teaching Assistant Program [01/05/2022 – 12/04/2024]

City: Kaohsiung | **Country:** Taiwan

- Organizing Instructional Activities
- Delivering Lectures
- Managing Discipline

Tutor

Home Tutor [10/02/2021 – 30/01/2022]

City: Islamabad | **Country:** Pakistan

- Helped O and A levels students boost grades in physics, maths, and chemistry with personalized tutoring.
- Students consistently scored top marks in exams, exceeding expectations in physics, maths, and chemistry.
- Recognized for excellent tutoring by students, parents, and schools, fostering confidence and mastery in these subjects.

Physics Teacher

The Educators Schools System (Qamar Campus) [02/03/2021 – 30/01/2022]

City: Islamabad | **Country:** Pakistan

- Teaching the prescribed curriculum effectively, ensuring students understand key concepts of Physics.
- Designing engaging lesson plans that cater to different learning styles and abilities within the classroom.
- Overseeing laboratory sessions to ensure safety protocols are followed and experiments are conducted correctly.

Physics lecturer

ILM(Institute of Leadership and Management) Group Of Colleges [19/05/2019 – 30/12/2020]

City: Bhera | **Country:** Pakistan

- Teaching physics to secondary and higher secondary school students
- Training students in the basic physics lab experiments

EDUCATION AND TRAINING

MS Physics

National Sun Yat-Sen University, Taiwan. [12/02/2022 – 12/01/2024]

City: Kaohsiung | Country: Taiwan | Website: <https://www.nsysu.edu.tw/>

Master of science (M.Sc. - Physics)

University of Lahore [14/09/2018 – 14/08/2020]

Address: 1-Km Defence Road, near Bhobatian Chowk, Lahore (Pakistan) | Website: <https://uol.edu.pk/>

Bachelor of Science (B.Sc. - Physics, Computer & Math)

University of Sargodha [14/08/2016 – 08/2018]

Address: University Road, 40100 Sargodha (Pakistan) | Website: <https://su.edu.pk/>

TECHNICAL SKILLS

Softwares

- MS Word
- Power Point
- MS Excel
- Canva
- MATLAB
- Vesta
- Xmgrace
- XCrysDen
- MobeXTerm

COMMUNICATION AND INTERPERSONAL SKILLS

Skills

- Leadership prowess
- Management prowess
- Critical thinker
- Team player
- Excellent communication skills
- Public Speaker

RESEARCH PROJECTS

[01/08/2022 – 02/01/2024]

Thermoelectric Properties of ternary rare earth chalcogenides XAgZ₂ (X = Sc or Y ; Z = S , Se or Te) predicted using first-principles calculation

Investigation of Materials on basis of :

- Electronic Properties
- Thermodynamic Stability
- Magnetic Properties
- Thermoelectric Properties

[01/02/2020 – 31/07/2020]

The Effects of Quats/Ligand on the surface of gold nanoparticle

- Nanoparticles synthesis (chemical and physical synthesis techniques).
- Structural and morphological characterization techniques (FTIR, XRD, EDX, & SEM).

Instruments:

- Hand on experience of UV-Visible spectroscopy
- Fourier transform infrared (FTIR) spectrometer
- X-ray diffraction (XRD)

PUBLICATIONS

Thermoelectric Properties of ternary rare earth chalcogenides $XAgZ_2$ ($X = Sc$ or Y ; $Z = S$, Se or Te) predicted using first-principles calculation (In Progress)

OTHER SKILLS

Codes

- VASP
- BoltzTrap2
- WannierTools
- Wannier90
- Phonopy
- Phono3py
- AMSET

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user