



Mahnoor Amjad

BS Mathematics

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Mianwali, Pakistan

Ambitious and driven undergraduate student pursuing a Mathematics degree with a passion for the industry. Demonstrates a strong academic foundation while actively engaging in extracurricular activities. Seeks opportunities to expand knowledge and skills. Effective communicator and team player, capable of collaborating with diverse groups.

EDUCATION

BS Mathematics Namal University Mianwali

10/2020 - 07/2024

Courses

- | | |
|----------------------------|----------------------------|
| - Calculus | - Linear Algebra |
| - Machine Learning | - Dynamical System |
| - Condensed Matter Physics | - Probability & Statistics |

WORK EXPERIENCE

Research Assistant Experience Namal University Mianwali

07/2023 - Present

Material Science Conducted impactful research with Sir Zia-ul-Rehman at Namal University, advancing knowledge in Hydrogen storage applications.

Student Head of Women in Mathematics Namal Mathematical Society

01/2022 - 01/2023

I have served as the head of the Women in Mathematics Society where I have to find scholarships for women in the field of mathematics.

Teacher Assistant Namal Mathematics Department

09/2023 - 02/2024

I have worked as Teacher Assistant with Miss. Aqsa Tariq of the subject of Oral Communication at Namal University Mianwali.

Student Head of Marketing Department Voice of Namal Mathematics

01/2021 - 01/2022

I served as the head of the marketing department for the "Voice of Namal" where me and my team have cover the different events happening at Namal.

PUBLICATIONS

- Ab initio insight into the physical properties of MgXH_3 ($X = \text{Co}, \text{Cu}, \text{Ni}$) lead-free perovskite for hydrogen storage application
- A DFT study of structural, electronic, mechanical, phonon, thermodynamic, and H_2 storage properties of lead-free perovskite hydride MgXH_3 ($X = \text{Cr}, \text{Fe}, \text{Mn}$)
- Hydrogen Storage Capacity of Lead-Free Perovskite NaMT_3 ($\text{MT} = \text{Sc}, \text{Ti}, \text{V}$): A DFT Study

SKILLS

Mathematical Modeling

Material Stimulation

Python Programming

Problem solving

Creativity

Communication Skill

Data Analyst

PERSONAL PROJECTS

Non-negative Matrix Factorization with applications in Image processing (08/2023 - 07/2024)

- Currently, I am working on a project that combines mathematical knowledge with machine learning techniques. My project, titled "Non-negative matrix factorization with applications in image processing" aims to apply non-negative matrix factorization to image processing. project has the potential to contribute to the field of image processing by providing a new approach to feature extraction.

CERTIFICATES

National Mathematics Competition

I have participated in the National Mathematics Competition held by IBA Sukkur and hold the 4th position in it.

National Mathematics Olympiad

I participated in the National Mathematics Competition along with my team held by IBA Sukkur, my team was runner-up.

Mathematics Corner

This event is held by the Namal Mathematical department where I present my model named as "Differential Equation; Predicting the future."

LANGUAGES

English
Native or Bilingual Proficiency

Urdu
Native or Bilingual Proficiency

Chinese
Professional Working
Proficiency

REFERENCES

Dr. Adil Jhangeer (Mathematics department Namal University Mianwali)

Dr. Israr Ali Khan (Associate prof. Namal University Mianwali)