Sadia Sadiq (M.Phil. Mathematics, B.Ed.)

Nationality: Pakistani **Date of birth:** 08/05/1998 **Gender:** Female **Phone number:** (+92) 3018237855

Email address: sadiasadiq0341@gmail.com **WhatsApp Messenger:** +923018237855

Home: Mahmod Kot City Kot Addu district Muzaffargarh, 34111 Muzaffargarh (Pakistan)

ABOUT ME

I am an MS Mathematics graduate from National University of Science and Technology (NUST). Worked on dual-mode models and had expertise with soliton solutions and nonlinear evolution equations. Uses different techniques to obtain precise travelling solutions. Aims to improve soliton behaviour and dual-wave approaches for data transfer in telecommunication networks.

WORK EXPERIENCE

Mathematics teacher secondary school

Access Science Academy, (Private) [11/09/2017 – 11/03/2019] **City:** Multan |

Country: Pakistan

1- Administrative duties
2- Student monitoring
3- Technology integration
4- Course design and planning
5- Student assessment

Mathematics teacher secondary school

Government Girls High School Mehmod Kot city [07/08/2019 – 07/10/2019] **City:**

Muzaffargarh | **Country:** Pakistan

1. Classroom instruction
2. Classroom management
3. Assisting with lesson planning
4. Assessing student progress
5. Organizing Math activities

EDUCATION AND TRAINING

MS MATHEMATICS

National University of Science and Technology (NUST) [13/09/2021 – 09/01/2024]

Address: H-12 sector, 44000 Islamabad (Pakistan) | **Website:** www.nust.edu.pk/ | **Field(s) of study:** Natural sciences, mathematics and statistics | **Final grade:** 3.25 out of 4.00 | **Level in EQF:** EQF level 7 | **Thesis:** DualMode Soliton Solution for Simplified Modified Camassa Holm and Gardner Equations

1- Research skills and Data analysis
3- Analytical thinking

BS MATHEMATICS

University of Education Lahore, Multan Campus [11/10/2017 – 19/07/2021] **City:** Multan | **Country:** Pakistan | **Website:** www.ue.edu.pk/ | **Final grade:** 3.59 out of 4.00 | **Level in EQF:** EQF level 6

Bachelors of Education

University of Education Lahore, Multan Campus [19/08/2024 – 16/01/2026] **City:** Multan | **Country:** Pakistan | **Website:** www.ue.edu.pk/ | **Final grade:** 3.65 out of 4.00 | **Level in EQF:** EQF level 6

Intermediate

Board of Intermediate and Secondary Education, DG Khan [12/03/2015 – 12/09/2017]

City: Muzaffargarh | **Country:** Pakistan | **Website:** https://www.bisedgkhan.edu.pk/ | **Field(s) of study:** Natural sciences, mathematics and statistics: ● Mathematics | **Final grade:** 881/1100 | **Level in EQF:** EQF level 4

Matriculation

Board of Intermediate and Secondary Education, DG Khan

City: Muzaffargarh | **Country:** Pakistan | **Website:** https://www.bisedgkhan.edu.pk/ | **Field(s) of study:** Natural sciences, mathematics and statistics: ● Biology ● Chemistry ● Physics ● Mathematics | **Final grade:** 881/1100 | **Level in EQF:** EQF level 3

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

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

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** C1

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

MS Office(MS Word,MS Powerpoint,MS Excel,MS) / Conhecimentos em software matemático: Mathematica, Maple; / matlab, scilab, mathematica / Overleaf & LaTeX

CONFERENCES AND SEMINARS

[21/11/2019 – 21/11/2021] The Women University Multan

Emerging Trends of Data Science and Cryptography Took part in a one-day lecture covering the most recent advancements in cryptography and data science. gained knowledge of new methods, approaches, and applications in different domains, improving comprehension of how they affect data analysis and security.

[23/05/2022 – 23/05/2022] National University of Science and Technology, Islamabad Pakistan

Applications of MATLAB in Science and Engineering (Workshop) Participated in a one-day workshop on MATLAB's scientific and engineering applications. Gained practical experience using MATLAB software for modelling, simulation, and data analysis. Investigated its application in resolving challenging issues in a range of engineering and scientific fields.

[14/12/2022 – 14/12/2022] National University of Science and Technology, Islamabad, Pakistan **Simplified Finite Difference Method for Solving Non-linear Boundary Value Problem**

Prime Minister Laptop Scheme Phase-III

Awarded with laptop

PUBLICATIONS

[13/05/2023 – 13/05/2023] National University of Science and Technology, Islamabad, Pakistan

A general formula for the nth order derivative of a function with respect to another function

[17/05/2023 – 17/05/2023] National University of Science and Technology, Islamabad, Pakistan

Method of Weighted Residual for ordinary differential equations

HONOURS AND AWARDS

University of Education, Lahore

Merit Scholarship

The Punjab Educational Endowment Fund (PEEF) **PEEF**

Scholarship

[2024]

Bi-directional solitons of dual-mode Gardner equation derived from ideal fluid model S. Sadiq, A. Javid, et al/, Results in Physics, 107337 (2211-3797), 2024.

[2024]

Novel solitary wave solutions in dual-mode simplified modified Camassa-Holm equation in shallow water waves

S. Sadiq, A. Javid, Optical and Quantum Electronics, 464 (56), 2024

Solitary Wave Solutions in (2+1) Dimensions: The KdV Equation Derived from Ideal Fluid Models S. Sadiq, A. Javid, et al/, International journal of Theoretical Physics, 63:105, (2024).

RECOMMENDATIONS

Name: Dr. Ahmad Javid | Assistant Professor National University of Science & Technology, Islamabad
Email: ahmadjavid001@gmail.com | **Phone number:** (+92) 3006430890

Name: Prof. Mujeeb Ur Rahman, | Head of Department of Mathematics National University of Science & Technology, Islamabad
Email: mrehman@sns.nust.edu.pk | **Phone number:** (+92) 5190855588