

## Personal Information

Name: **SAIMA ARSHED**  
Address: Department of Mathematics  
University of the Punjab  
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## Professional Experience

- March 2015 to date, working as an Assistant Professor in the department of Mathematics, University of the Punjab.
- May 2006- March 2015, working as permanent lecturer in the department of Mathematics, University of the Punjab.

## Academic Qualifications

<b>Ph.D. Mathematics</b> University of the Punjab, Lahore-Pakistan.	<b>2011-15</b>
<b>M.Phil. Mathematics (3.60 CGPA)</b> University of the Punjab, Lahore-Pakistan.	<b>2009-11</b>
<b>M.Sc. Mathematics (76%)</b> University of the Punjab, Lahore-Pakistan.	<b>2003</b>
<b>B.Sc. Double Maths and Statistics (80.2%)</b> Lahore College For Women University, Lahore-Pakistan.	<b>2001</b>
<b>F.Sc. General Science (73.2%)</b> Lahore College For Women University, Lahore-Pakistan.	<b>1999</b>
<b>Matriculation (Science) (79.3%)</b> Crescent Model Higher Secondary School, Shadman, Lahore-Pakistan.	<b>1997</b>

## Computer Skills

*Well understanding of following programs;*

- MS Office
- FORTRAN 90
- MATHEMATICA
- MATLAB
- WinEdt

## List of Publications

- Shahid. S. Siddiqi and Saima Arshed, Quintic B-spline for the numerical solution of the good Boussinesq equation, Journal of the Egyptian Mathematical Society, 22 (2014), 209-213.

- Shahid S. Siddiqi and Saima Arshed, Numerical Solution of Convection-Diffusion Integro Differential Equations with a Weakly Singular Kernel, Journal of Basic and Applied Scientific Research, 3(11): 106-120, 2013.
- Shahid S. Siddiqi and Saima Arshed, Quintic B-spline for the Numerical Solution of fourth order parabolic partial differential equations, World Applied Sciences Journal, 23 (12): 115-122, 2013.
- Shahid S. Siddiqi and Saima Arshed, Cubic B-Spline for the Numerical Solution of Parabolic Integro-Differential Equations with a Weakly Singular Kernel, Research Journal of Applied Sciences, Engineering and Technology, Accepted to Publish in: 7(10), 2014, 2065-2073.
- Shahid S. Siddiqi and Saima Arshed, Numerical solution of time-fractional fourth-order partial differential equations, International journal of computer mathematics, 92(7) (2015), 1496-1518.

## Submitted Manuscripts

- Numerical Solution of fractional diffusion wave equation.
- B-spline solution of subdiffusion and superdiffusion fourth order partial differential equations.
- Numerical solution of time-fractional hyperbolic partial differential equation.

## Delivery of Seminars

*Seminar delivered on the following topics;*

- Application of Linear Algebra at Virtual University of Pakistan, Lahore-Pakistan. (05-05-2005).
- Solution of Linear Diophantine Equations and Fermat Last Theorem at University of the Punjab, Lahore-Pakistan. (08-06-2006).
- Solution of fifth order singularly perturbed boundary value problems using sextic spline at University of the Punjab, Lahore-Pakistan. (15-05-2010)
- Solution of fourth order parabolic partial differential equation using quintic B-Spline at University of the Punjab, Lahore-Pakistan. (10-01-2013)
- Numerical solution of time-fractional convection-diffusion equations at University of the Punjab, Lahore-Pakistan. (27-11-2013).
- Numerical Study of Time-Fractional Hyperbolic Partial Differential Equations at University of the Punjab, Lahore-Pakistan. (25-06-2014).
- Numerical solution of fractional diffusion wave equation at University of the Punjab, Lahore-Pakistan. (02-12-2015).

## Special Distinction

### *Following distinctions awarded;*

- I graduated from Lahore College for Women University, Lahore-Pakistan in Mathematics with distinction and was awarded Gold Medal and shield.
- I was awarded **Shamshad Majeed Gold Medal** for standing FIRST in Mathematics Department, Lahore College for Women University, Lahore-Pakistan by securing highest marks in mathematics (A & B courses).
- On account of my outstanding academic performance, my name has been inscribed in **academic Roll of Honor, 2001**, Lahore College for Women University, Lahore-Pakistan.
- Lahore College for Women University, Lahore-Pakistan awarded **MERIT CERTIFICATE** for the session 1999-2001.
- University of the Punjab, Lahore-Pakistan awarded **MERIT CERTIFICATE and SCHOLARSHIP** for the session 2002-2003.

## References

1. Prof. Dr. Muhammad Sharif  
Chairman Department of mathematics  
University of the Punjab, Lahore  
Pakistan
2. Prof. Dr. Shahid S. Siddiqi  
Department of Mathematics  
University of the Punjab, Lahore  
Pakistan.