## Prof. Dr. Sohail Nadeem

*T.I., Fellow PAS*

*Professor (Tenured)*

*Department of Mathematics,*

*Quaid-I-Azam University 45320,*

*Islamabad 44000, Pakistan*

Phone office: +92-51-90642182

Mobile: +92-300-5117317

E-mail: sohail@qau.edu.pk

E-mail: snqau@hotmail.com

ResearchGate: www.researchgate.net/profile/Prof\_Dr\_Sohail\_Nadeem

LinkedIn:

www.linkedin.com/in/prof-dr-sohail-nadeem-t-i-394a6930/

ORCID:

orcid.org/0000-0002-1052-011X

Scopus:

Author ID: 15744312500

Google Scholar:

<https://scholar.google.com/citations?user=zmuASIwAAAAJ&hl=en>

Mendeley:

www.mendeley.com/profiles/sohail-nadeem/?dgcid=Mendeley\_Desktop\_Profile

Publons:

https://publons.com/researcher/3138004/sohail-nadeem/

## Education

### Post-Doc 2011

*Mathematics*

Yonsei University South Korea 2011.

### PhD 2001-2004

*Mathematics*

Department of Mathematics Quaid-i-Azam University, Islamabad.

### MPhil 1998-2000

*Mathematics*

Department of Mathematics Quaid-i-Azam University, Islamabad.

### MSc 1996-1998

*Mathematics*

Department of Mathematics Quaid-i-Azam University, Islamabad.

## Awards and Honors

1. Obada Prize as Distinguished Scientist by NSP for the year 2022.
2. Elected, Fellow Pakistan Academy of sciences in 2019.
3. Adjunct Professor at Ton Duc Thang University Vietnam from October 2019-2020.
4. Awarded **Best university teacher award** for the year 2015 in 2016 by Higher education commission of Pakistan.
5. Awarded PAS gold medal in Mathematics for the year 2016 by Pakistan academy of sciences.
6. Third Top Mathematician of Pakistan for the year 2017, according to PCST award list.
7. Productive scientist Award for A Category by PCST for the year 2015 and is on 4th position in Pakistan among all the scientists.
8. According to PCST ranking declared top third Mathematician of Pakistan for the year 2014, and top Eleven Scientist of (all categories) Pakistan.
9. Awarded the letter of outstanding author of Applied mathematics and Mechanics (English Edition) for the year 2014.
10. Ambassador of ICM 2014 which will be held in Korea in this summer.
11. Productive scientist Awards by PCST for the years 2012-2013 A category.
12. Recipient of Best young researcher scholar award for the year 2011 awarded by HEC in 2013.
13. Productive scientist Award for A Category by PCST for the year 2012.
14. Recipient of Salam prize for Mathematics for the year 2012 by Third World Academy of Sciences ICTP, Italy.
15. Selected Member Pakistan Academy of Sciences from 2012 by Pakistan Academy of Sciences.
16. Received two appreciation letters from Communications in Nonlinear Science and Numerical Simulation for top cited articles of 2007-2011.
17. Productive scientist Award for A Category by PCST for the year 2011.
18. Awarded Tamgha-i-Imtiaz by government Pakistan for the year 2012.
19. Successfully completed a research project of more than one million awarded by HEC for the years 2010-2012.
20. Young fellow TWAS by third world Academy of Sciences, Italy, for the years 2011-2016.
21. Visiting Fellow at Yonsei University Seoul Korea for summer 2011.
22. Awarded Research project of more than one Million by higher education commission of Pakistan for the years 2010-2012, which is completed.
23. Successfully supervised 20 Ph.D. Students and more than 70 M. Phil students.
24. Reviewer of more than 100 international journals with high impact factor.
25. Awarded Razi-ud-Din Gold medal by Pakistan Academy of Sciences for the year 2008.
26. Recipient of productivity allowance from Pakistan council for science and technology every year from 2006 to 2010.
27. Razi-ud-Din Scholarship during Ph.D.
28. 3rd Position in MPhil in Mathematics.
29. University merit Fellowship during M.Phil.

## Academic Appointments

* Chairman Department of Mathematics, Quaid-i-Azam University Islamabad, Jan.2019 to 2022.
* Professor at Quaid-i-Azam University Islamabad from August. 2015 to date.
* Associate Professor at Quaid-i-Azam University Islamabad from Feb. 2011 to 25 August 2015.
* Assistant Professor at Quaid-i-Azam University Islamabad from December 2005 to Feb. 2011.
* Assistant Professor at COMSATS Institute of Information Technology Abbottabad from April 2003 to Feb. 2005.
* Lecturer at COMSATS Institute of Information Technology Abbottabad from May 2002 to April 2003.
* Two years research experience as junior research assistant at Mathematics department Quaid-i-Azam University from 1998 to 2000.
* Senior research assistant department of Mathematics, Quaid-i-Azam University Islamabad from 2000 to 2004.

## Administrative Experience

1. Chairman Department of Mathematics, Quaid-i-Azam University, Islamabad Jan.2019-to Jan 2022.
2. Chairman Auction Committee Quaid-i-Azam University Islamabad 2015 to date
3. Member of Various committees of Quaid-i-Azam university and other universities in Pakistan.
4. Member HEC MPhil/Ph.D. review Committee.
5. Worked as Resident Officer Quaid-i-Azam University 2017.
6. In charge VFH Houses Quaid-i-Azam University Islamabad 2015-2019.
7. In charge Departmental Computer Lab.
8. Member DTC, Statistics Department Quaid-i-Azam University Islamabad.
9. Member DTRC, Gujrat University.
10. Member DTRC, Government college University Faisalabad.
11. Member DTRC, Abbottabad University.
12. Member DTRC, Benazir Bhutto Women university Peshawar.
13. Running research Lab where Dr. Sohail Nadeem Has successfully supervised More than 100 Research scholars including 30 Ph.D.’s and more than 100 M. Phil Graduates.

## Completed PhD Theses

1. Anwar Husain (2010) Stagnation flows of non-Newtonian fluids towards a shrinking sheet.
2. Safia Akram (2011) Peristaltic flows of non-Newtonian fluids in an asymmetric channel.
3. Noreen Sher Akbar (2012) Peristaltic flows in cylindrical geometries.
4. Sadaf Ashiq (2013) Peristaltic Flows of non-Newtonian fluids in a diverging tube.
5. Majid Hussain (2013) Heat transfer analysis in two-dimensional flows.
6. Abdul Rehman (2014) Stagnation flows of Newtonian and non-Newtonian fluids.
7. Ehnber Naheed (2014) Mathematical study of Peristaltic flows of non-Newtonian fluids in tubes with different geometrical shapes.
8. Arshad Riaz (2014) Study of Peristaltic Flows of non-Newtonian Fluids.
9. Shafiq-Ur-Rehman (2014) Blood flow of non-Newtonian fluids
10. Salman Saleem (2015) Time dependent flow problems induced by a rotating cone.
11. Rizwan-Ul-Haq, (2015) Development and analysis of stretched flows with nanoparticles.
12. Rashid Mahmood, (2015) non-Orthogonal stagnation point flows with rheological characteristics.
13. Syed Tayyab Husain Shah, (2015) Analysis of steady flows over a continuous moving surface.
14. Hina Sadaf (2016) Theoretical Investigation of Peristaltic and Ciliary Transport.
15. Shagufta Ijaz (2016) Theoretical Analysis of Blood Flow through Arteries.
16. Aziz Ur Rehman (2017) Speculative Study of Rotating Nanofluids Over a Stretching Surface.
17. Aqeela Shaheen (2017) Peristaltic flows of non-Newtonian fluids.
18. Muhammad Ashfaq (2018) Biomathematical study of some linear and nonlinear blood flow problems.
19. Iqra Shahzadi (2018) Peristaltic transport of nanofluids in tubes and channels.
20. Arif Ullah Khan, (2019) Investigation of Unsteady Stagnation point flow of nanofluids.
21. Tanzila Hayat (2019) Heat transfer analysis for the flows of nanofluids over a stretching surface.
22. Noor Muhammad (2020) Mathematical analysis of Ferro-magnetic fluids.
23. Nuzhat Irshad (2020) Mathematical Observations of Peristaltic flows of nanofluids in an endoscope.
24. Zahid Ahmed (2020) Numerical study of stretching/shrinking problems.
25. Maryam Subhani (2020) Boundary layer flow of micropolar fluid by an exponentially stretching surface.
26. Madiha Rashid (2021) Flow in a Corrugated Walls with EMHD
27. Nadeem Abbas (2021) Theoretical analysis of hybrid nanofluid flow at various stretching surfaces
28. Shafiq Ahmad (2021) CNTs based nanofluids over a stretchable surface
29. Naveed Ahmad Khan (2021) Mathematical Analysis of non–Newtonian Fluid Flows Over a Stretchable Surface
30. Rizwana (2021) Oblique Stagnation point flows
31. Naeem Ullah (2022) Flows of Nanofluids inside Cavities: Finite element method

## Current PhD Theses

1. Shahbaz Ali (work in progress).
2. Bushra Ishtiaq (work in progress).
3. Inayat Ullah (work in progress).
4. Tousif Iqra (work in progress).
5. Salman Akhtar (work in progress).

## Completed MPhil Theses

1. Itrat Rubab (2007) Three-dimensional flow of a non-Newtonian fluid with Heat Transfer.
2. Tauseef Aslam (2007) Slip Flow on a stretching surface in a rotating Frame.
3. Muhammad Awais (2007) Analytic solution for thin film flow of a fourth-grade fluid.
4. Muhammad Ali (2007) Flow of a third-Grade fluid with variable viscosity.
5. Muhammad Naseer (2007) Unsteady flows of non-Newtonian fluid with Heat transfer.
6. Mahvish Naz (2008) Boundary Layer Flow Due to Stretching Sheet.
7. Noreen Sher Akbar (2008) The effects of variable fluid properties in a uniform tube with peristalsis.
8. Sajida Bano (2008) An oscillatory hydromagnetic third grade fluid in a rotating system.
9. Saeed Ahmad Rajput (2008) Flow and heat transfer due to an exponential stretching sheet.
10. Ansa Rafique (2008) Influence of heat transfer on thin film flow of a third-grade fluid with variable viscosity.
11. Iffat Zehra (2008) Effects of Heat transfer on MHD flow of an Oldroyd-B fluid between eccentric rotating disks with variable viscosity.
12. Majid Hussain (2009) Stagnation point flow of a Micropolar fluid towards a stretching sheet: an analytic solution.
13. Tabinda Naz (2009) Closed form solution to a second order boundary value problem and its applications in peristalsis.
14. Naheeda Bibi (2009) Influence of heat transfer on peristaltic flow of a non-Newtonian fluid in a vertical annulus.
15. Ziafat Mehmood (2009) Stagnation flow towards a shrinking sheet.
16. Naeem Faraz (2009) Flow of a non-Newtonian fluid film on a stretching surface.
17. Shela Zaheer (2010) Boundary layer flow of a non-Newtonian fluid over an exponentially stretching surface.
18. Bushra Tahir (2010) Stagnation point flow of a non-Newtonian fluid.
19. Haleema Sadia (2010) Flow of a non-Newtonian fluid with Reynolds and Vogel’s models of viscosity.
20. Aziz-ur-Rehman (2010) Study of stokes first and second problem.
21. Sajjad Shaukat (2010) Solution of differential equation by variational method.
22. Abdul Rehman (2010) Annular axisymmetric stagnation flow of a non-Newtonian fluid on moving cylinder.
23. Salman Saleem (2010) Mixed convection flow of a non-Newtonian fluid on a rotating cone.
24. Asif Shahzad (2010) The Falkner Skan flow with variable viscosity.
25. Uzma Batool (2011) Peristaltic flow in a rectangular duct.
26. Rizwan Ul Haq (2011) MHD flow due to shrinking sheet: An analytical solution.
27. Farhan Ahmad (2011) Mixed convection flow near the stagnation point on a vertical surface.
28. Sadaf Moin (2011) Peristaltic flow of six constant Jeffrey fluid in an asymmetric channel.
29. Syed Tayyab Hussain Shah (2012) Flow of two-dimensional Williamson fluid.
30. Farhan Yousaf (2012) Stagnation flow in a circular cylinder.
31. Syed Waqar Hussain Shah (2012) The study of non-Newtonian fluid in a slowly deforming channel.
32. Sehrish Abbas (2012) Peristaltic flow of non-Newtonian fluid through porous boundaries.
33. Sidra-tul-Muntha (2012) The study of peristaltic flow in a rectangular duct.
34. Aqeela Shaheen (2012) Peristaltic flow of non-Newtonian fluid with variable viscosity.
35. Shagufta Ijaz (2012) Blood flow in tapered arteries.
36. Hina Sadaf (2012) Peristaltic flow in vertical annulus.
37. Taimoor Salahudin (2012) Study of Peristaltic flows of non-Newtonian Fluids.
38. Samina Tasleem (2013) Mathematical study of arterial blood flow.
39. Nuzhat Irshad (2013) Theoretical study of peristaltic flow in an annulus.
40. Wajeeha Sundas (2013) Steady flow of natural convection due to stretching cylinder.
41. Fauzia Bibi (2013) Unsteady flow over a rotating stretchable Disk
42. Bushra Sarfraz (2013) Boundary Layer flow of mixed convection heat transfer over a stretching wedge.
43. Shazia Parveen (2013) Blood flow through a tapered overlapping stenosed artery.
44. Misbah Ijaz (2013) Flows of couple stress fluid.
45. Aashibah Ghazal (2014) Blood flow of non-Newtonian fluid through catheterized arteries.
46. Syeda Anum Fatima (2014) Electroosmotic flow of non-Newtonian fluid.
47. Amna Munim (2014) Flow of non-Newtonian fluid due to ciliary motion.
48. Iqra Shahzadi (2014) Mathematical Analysis for peristaltic flow in a curved channel
49. Fiaz Ur Rehman (2014) Theoretical study of exponentially stretching problem.
50. Tanzila Hayat, (2014) Stagnation flow and heat transfer towards a convectively heated stretching surface.
51. Sadia Akbar (2014) Study of nano liquid film over a stretching surface.
52. Sadaf Masood (2015) Study of rotating nanofluid.
53. Samia Maqbool (2015) Mathematical study of cilia.
54. Arif Ullah Khan (2015) Analysis of unsteady stagnation point flow.
55. Zahid Ahmed (2015) Study of Ag-water and Cu-water nanofluids.
56. Sumaira Mehboob (2015) Heat transfer Analysis of Williamson Fluid.
57. Noor Muhammad (2015) Boundary Layer Flow over a vertical plate with new Roseland thermal radiation.
58. Maryam Subhani (2015) Unsteady Flow and heat transfer over an exponentially stretching surface.
59. Komal Ansar (2015) Effects of induced magnetic field for peristaltic flow of Williamson fluid in a curved channel.
60. Aroosa Naseer (2016) Non-Newtonian Fluid through Channel with Corrugated Walls.
61. Madihal Rashid (2016) Thermo-Solutal Nanofluid Flow by Exponential Streching Sheet with Thermal Radiation.
62. Iram Rashid (2016) Study of Blood Flow through Tapered Elastic Artery.
63. Uzma Bano (2016) Effects of induced Magnetic Field on the Boundary Layer Flow Due to a Moving Wedge.
64. Iram Naz (2016) Series Solution for Three-Dimensional Stagnation Point Flow.
65. Fouzia Rehman (2016) Analysis of Three Dimensional Hydromagnetic Flow with Heat Transfer.
66. Naseem Ullah Khan (2017) Stagnation Region of an Impulsively Rotating Sphere.
67. Arsalan Hayyat (2017) Flow over an Exponentially Stretching Surface with Cattaneo-Christove Heat Flux.
68. Shafiq Ahmad (2017) Computational Study of Falkner-Scan Problem For a Static and Moving Wedge.
69. Nadeem Abbas (2017) Theoretical Study of Steady Three-Dimensional Stagnation Point Flow of Micropolar Nanofluid Past a Cylinder.
70. Sanam Iftar (2017) Trapping Study of Nanofluids with Cilia.
71. Sadia Waheed (2017) Streamline Topologies of two-dimensional peristaltic flow with nanofluid and mixed convection.
72. Iram Raishad (2017) MHD flow of SWCNTs- Nanofluid under slip conditions.
73. Maryam Hussain (2017) Study of MHD Jeffrey Fluid Flow over a stretching surface.
74. Naeem Ullah (2017) MHD study three-dimensional stagnation point flow of a nanofluid past a circular cylinder.
75. Naveed Ahsan (2018) Streamlines topologies of peristaltic flow of non-Newtonian fluid and their bifurcations.
76. Muhammad Naveed Khan (2018) Theoretical investigations of unsteady forced convection slip flow of exponentially stretching sheet.
77. Usama (2018) Boundary Layer flow of nanofluid over a curved stretching surface.
78. Khadija Ali Shah (2018) Influence of heat transfer on peristaltic flow of Bingham fluid.
79. Muzammil Ayub (2018) Blood flow through curved artery with Stenosis.
80. Sana Suleman (2018) Flow of Nano fluid through bifurcated artery.
81. Muhammad Riaz Khan (2019) Oblique Stagnation Point Flow of Viscous nanofluid over a stretching surface.
82. Saba Safdar Keyani (2019) Study of Ciliary flow in a curved channel
83. Naseer Muhammad Khan Numerical Solutions of Maxwell Fluid with double slip
84. Ayesha Saddiqa (2019) Peristaltic flow of Compressible Fluid.
85. Wajiha sabih (2019) Fluid flow past a deformable cone.
86. Muhammad Israr-Ur-Rahman (2020) Analysis of an isotropic slip-on three-dimensional flow of nano fluids.
87. Mishal Nayab kiani (2020) Theoretical investigation of microvascular non-Newtonian blood flow.
88. Aleesha Qaiser (2020) Cilia induced compressible flow in a microfluidic channel.
89. Asma Amin (2020) Influence of Partial Slip on the stagnation point flow of micropolar nano fluid.
90. Farrah Sajid (2020) Effects of SWCNT and MWCNT on the flow of micropolar hybrid nano fluid over a curved stretching surface with induced magnetic field.
91. Inayat Ullah (2020) Theoretical investigation of rotational stagnation point flow of nanofluid over a stretching/shrinking disk.
92. Bushra Ishtiaq (2021) Numerical solution for three-dimensional axisymmetric stagnation point flow of second grade nanofluid towards a Riga plate.
93. Umme-E-Haleema (2021) Computations for boundary layer flow of Casson nano fluid over a vertical needle.
94. Maryam Tamreen (2021) MHD 3D non-Newtonian nanofluid flow through slandering stretching sheet: Numerical simulation.
95. Maryam Nawaz Malik (2021) Study of Micropolar non-Newtonian nanofluid over a stretching surface with partial slip.
96. Amna Yasin (2021) Numerical Study for MHD mixed convective flow inside an enclosure.
97. Ambreen Sial (2021) Numerical Analysis of generalized Fouriers and Fick’s Lawas for Micropolar Casson fluid flow over a vertical variable stretching riga sheet.
98. Shahbaz Ali (2022) Numerical analysis for the effects of heat transfer in modified square duct with heated obstacle inside it.
99. Usman Nasrullah (2022) Effects of Reynold number and Grashof numbers on Mixed Convection in a rectangular cavity with heated obstacles.
100. Rehan Akber (2022) Numerical study on mixed convection in cavities with different boundary conditions.
101. Hiba Waqar (2022) Peristaltic flow of nanofluid in a sinusoidal rectangular duct.
102. Sabahat Qadeer (2022)
103. Sumera (2022) Numerical computations for MHD two-dimensional flow in buoyancy driven cavity.
104. Aqsa Rehman (2022) Heat and mass transfer insight for mixed convection flow in a cavity.
105. Ayesha Siddiqua (2022) Flow of SWCNT and MWCNT based hybrid nanofluid in a semicircular enclosure: Finite element method.
106. Bisma Akram (2022) Modeling and simulations for MHD mixed convection in chamfered enclosures.
107. Aysha Bibi (2022)
108. Warda Waheed (2022)

## Conferences Attended

1. 25th International Nathiagali Summer College 2000 at Muree Bhurban Pakistan.
2. International Conference on “Application of Group Theoretic Methods” at Math. Department of Quaid-I-Azam University Islamabad Pakistan.
3. 26th International Nathiagali Summer College 2001 at Muree Bhurban Pakistan.
4. Introductory workshop on mathematical modeling and its application to development issues. Arranged by GCISC from 29th Oct. to 2 Nov. at Islamabad Pakistan.
5. International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS on 23rd June, to 27th June 2003 held at COMSATS Abbottabad Pakistan.
6. 2nd International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2005.
7. 3rd International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2006.
8. First international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
9. 4th International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2007.
10. Second international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
11. 4th International conference on “Models and Methods in Fluid Mechanics”. Arranged by Mathematics Department COMSTAS Islamabad 2007.Second international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
12. Third international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan
13. Peristaltic flows in a rectangular duct” presented in Computational sciences and engineering department Yonsei University Seoul, South Korea.
14. ICM 2014 Held in South Korea August 2014.
15. Two days international workshop on Recent Advances in computational fluid dynamics May 28-29, 2015, at COMSATS Islamabad, Pakistan.
16. CASM conference on Qualitative and Quantitative Techniques for Differential Equations and Applications, Arranged by LUMS Lahore June 4-6, 2015.

## Seminars Delivered

1. On MHD flow of a third-grade fluid on an oscillating porous plate on 12th December 2001 at Mathematics department Quaid-i-Azam University Islamabad Pakistan
2. An oscillating Hydromagnetic non-Newtonian flow in a rotating system on 5th March 2002 at Mathematics department Quaid-i-Azam University Islamabad Pakistan
3. Analytic Solutions of Stokes second problem in Second grade fluid on 11th March 2002 at Mathematics department Quaid-i-Azam University Islamabad Pakistan
4. Existence of Solution in case of Resonance and Blowing in “International Conference on Models and Methods in Fluid Mechanics” on 23rd June, to 27th June 2003 held at COMSATS Abbottabad Pakistan.
5. Exact solutions of rotating hydromagnetic flows of second grade fluids on 29th October 2003 at mathematics department COMSATS Institute of Information Technology Abbottabad Pakistan.
6. Solutions of Non-linear equations arising non-Newtonian Fluid Mechanics using Homotopy analysis Method on June 2004 at mathematics department COMSATS Institute of Information Technology Abbottabad Pakistan.
7. Unsteady flow of a second-grade fluid over a stretching sheet with partial slip in “International Conference on Models and Methods in Fluid Mechanics” on 4th July, to 6th July 2005 arranged by COMSATS institute of Information Technology Islamabad, Pakistan.
8. Generalized non-Newtonian fluids “International Conference on Models and Methods in Fluid Mechanics” July 2006 arranged by COMSATS institute of Information Technology Islamabad, Pakistan.
9. Adomian decomposition method and its applications in peristalsis “Second international conference on “Recent Developments in Fluids” arranged by Fluid Mechanics Group department of Mathematics Quaid-i-Azam University Islamabad, Pakistan.
10. Peristaltic flows in rectangular duct “presented in Department of Computational sciences and engineering” Yonsei University Seoul South Korea in summer 2011.
11. Convective heat transfer and MHD flow in the presence of Carbon nanotubes over a stretching surface, ICM 2014, South Korea.
12. Applications of nano fluids in fluid mechanics, presented in Two days international workshop on Recent Advances in computational fluid dynamics May 28-29, 2015, at COMSATS Islamabad, Pakistan.
13. Optimal HAM solutions of differential equations in fluid mechanics, CASM conference on Qualitative and Quantitative Techniques for Differential Equations and Applications, Arranged by LUMS Lahore June 4-6, 2015.

## Member editorial boards

* Editor in Chief Journal of Pure and Applied Mathematics
* Scientific Reports
* Alexandria Engineering Journal
* Physica Scripta
* Journal of nano fluids (American Scientific Publishers)
* Universal Journal of Applied Mathematics (Horizon Research)
* Probe Mathematics and Mathematical Sciences (Universe Scientific Publishing)
* Physics & Astronomy International Journal

## Research Projects

1. Influence of heat transfer on the peristaltic motion of non-Newtonian fluids with different flow geometries. One research project completed 2011 (donor Agency HEC more than 1 million)
2. Study of peristaltic flow problem with different nano models 2017-2019(amount is more than 2 million completed)

## Reviewer of International Journals (More than 150 Journals)

1. Journal of Porous media
2. Physics Letter A
3. International Journal for numerical methods in fluids.
4. Communications in non-linear science and numerical simulations
5. International Journal of Heat and mass transfer.
6. Numerical methods for partial differential equations.
7. Zeitschrift fuer Naturforschung A
8. Taiwan Journal of Chemical Engineering.
9. Mathematical and Computer Modeling.
10. Journal of Advance research in scientific computing.
11. Journal Mathematical problem in engineering
12. Journal Quertly of Applied Mathematics
13. Journal Asian pacific journal of chemical engineering
14. Chemical engineering communications.
15. Computers and mathematics with applications.
16. Journal of Viberation and Control
17. Journal of Aero Space Engineering
18. Nonlinear Science Real world applications
19. Acta Mechanica Sinica
20. Meccanica
21. Applied Mathematics and Mechanics
22. Mathematical Methods in Applied Sciences
23. Reviewer of Research grants council of Hong Kong
24. American Mathematical reviews
25. Journal of Biomechanics
26. Applied Mathematics Letters
27. International journal of Biomathematics
28. TamKang journal of science and engineering
29. International journal of Computer Mathematics
30. Chinese physics letter
31. AJSE-Mathematics Journal
32. International journal for Nonlinear science real world Applications
33. Mathematical Biosciences.
34. Brazilian Journal of Chemical Engineering
35. Journal of Applied Mathematics
36. Ain Shams Engineering Journal
37. International journal of Physical Sciences
38. Engineering Analysis with Boundary Elements
39. Experimental Thermal and Fluid Science

## Courses at university

**Undergraduates**

* Calculus
* Linear Algebra
* Applied Engineering Mathematics
* Ordinary Differential equations

**MSc**

* Fluid Mechanics-I
* Fluid Mechanics-II
* Partial Differential Equations
* Integral Equations

**MPhil/PhD**

* Basic Theory of Fluids
* Advanced Partial Differential Equations
* Mathematical Techniques for Boundary Value Problems
* Advanced Mathematical Methods

## Research Interest Areas

* Mathematical modeling, computational fluid dynamics, blood flow, analytical solutions, stretching problems.

## Publications

[1] J. Zhang, F. Wang, **S. Nadeem**, and M. Sun, "Simulation of linear and nonlinear advection-diffusion problems by the direct radial basis function collocation method," *International Communications in Heat and Mass Transfer,* vol. 130, pp. 105775-105775, 2022. [Online]. Available: <https://scholar.google.com/citations?view_op=view_citation&hl=en&user=zmuASIwAAAAJ&cstart=500&pagesize=100&citation_for_view=zmuASIwAAAAJ:rOcdG6UcVlcC>.

[2] A. Yasin, N. Ullah, S. Nadeem, and H. Ghazwani, "Numerical simulation for mixed convection in a parallelogram enclosure: Magnetohydrodynamic (MHD) and moving wall-undulation effects," *International Communications in Heat and Mass Transfer,* vol. 135, pp. 106066-106066, 2022. [Online]. Available: <https://scholar.google.com/citations?view_op=view_citation&hl=en&user=zmuASIwAAAAJ&cstart=600&pagesize=100&citation_for_view=zmuASIwAAAAJ:I858iXPj1OkC>.

[3] M. Shahzad, A. Awan, S. Akhtar, and S. Nadeem, "Entropy and stability analysis on blood flow with nanoparticles through a stenosed artery having permeable walls," *Science Progress,* vol. 105, no. 2, pp. 2147483647-2147483647, 2022. [Online]. Available: <https://scholar.google.com/citations?view_op=view_citation&hl=en&user=zmuASIwAAAAJ&cstart=600&pagesize=100&citation_for_view=zmuASIwAAAAJ:kUhpeDhEZMUC>.

[4] M. Shahzad, N. Ahammad, S. Nadeem, S. Allahyani, E. Tag-ElDin, and ... *Sensitivity analysis for Rabinowitsch fluid flow based on permeable artery constricted with multiple stenosis of various shapes* (Biomass Conversion and Biorefinery). 2022, pp. 1-11.

[5] A. Riaz, S. Almutairi, S. Alhazmi, A. Saleem, S. Nadeem, and A. Abdelrahman, "Insight into the cilia motion of electrically conducting Cu-blood nanofluid through a uniform curved channel when entropy generation is significant," *Alexandria Engineering Journal,* vol. 61, no. 12, pp. 10613-10630, 2022. [Online]. Available: <https://scholar.google.com/citations?view_op=view_citation&hl=en&user=zmuASIwAAAAJ&cstart=600&pagesize=100&citation_for_view=zmuASIwAAAAJ:VRfTbSk87rEC>.

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## Skills

## Language Skills

## Mother language: Punjabi

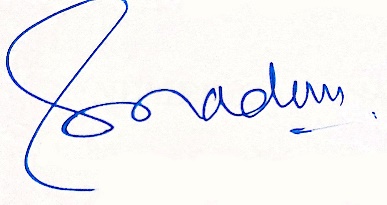
## Other languages: Urdu; Native speaker

## English: Listening; C1, Reading; C1, spoken interaction; C1, spoken production; C1, writing; C1

### Research Skills

* Good communications and presentation skills
* Technical writing for journal articles
* Critical reviews of research articles and reports
* Mathematical modeling
* Analytical and closed form solutions

## Computer Languages/Programs

* Microsoft-Office
* MATLAB
* GNU-Octave
* Mathematica
* Maple

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**Date:** October 01, 2022, Signature