

Personal Information **Aamir Khan**

📍 Nowshera, KPK, Pakistan

📞 +923018090118

✉ aamirmath@yahoo.com



Personal Statement

My aim being an experienced researcher would be to render my knowledge, experience, and expertise in all aspects starting from organizational management, academic accreditation, and policy-making to the proper training of students in terms of teaching them the values and principles of life along with improving their intellectualism by increasing their power of logical reasoning.

EDUCATION AND TRAINING

2014 – 2018 **Ph.D. in Mathematics**

University of Engineering & Technology Peshawar, Pakistan

Major Courses

- Numerical Methods for PDEs
- Meshless and Other Advanced Numerical Methods
- Advanced Fluid Dynamics
- Numerical Grid Generation and Fluid Flow Computations

2008 – 2010 **MS (18 Year of Education)**

National University of Computer and Emerging Sciences Islamabad, Pakistan

Major Courses

- Advanced Numerical Methods for Ord. Diff. Equ.
- Advanced Functional Analysis
- Advanced Mathematical Statistics
- Galois Theory and Valuation Theory

2002–2004 **Master of Science in Mathematics (16 Years of Education)**

University of Peshawar, Peshawar

Major Courses

- Real Analysis
- Numerical Analysis
- Topology
- Measure Theory

Work Experience
28/09/200 – Present

Assistant Professor

The University of Haripur, Pakistan

2017–2018 **Lecturer In Mathematics**

The University of Technology Nowshera, KP, Pakistan

2006–2009 **Lecturer In Mathematics**

Government Postgraduate College Nowshera, KP Pakistan.

2009-2010 **Lecturer in Mathematics**

Government Girls Degree College Nowshera

Publications

- Khan, A., Shah, R. A., & Alam, M. K., (2021). Computational investigation of an unsteady non-Newtonian and non-isothermal fluid between coaxial contracting channels: A PCM approach. *Results in Physics*, 28, 104570.
- Khan, A., Shah, R. A., Shuaib, M., & Ali, A. (2018). Fluid dynamics of the magnetic field dependent thermosolutal convection and viscosity between coaxial contracting discs. *Results in Physics*, 9, 923-938.
 - Khan, A., & Shah, R. A. (2019). Influence of cross-diffusion and radiation on mixed convection between rotating discs in the presence of a variable magnetic field. *The European Physical Journal Plus*, 134(2), 52
 - Khan, A., Shah, R. A., Alam, M. K., Rehman, S., Shahzad, M., Almad, S., & Khan, M. S. (2021). Flow dynamics of a time-dependent non-Newtonian and non-isothermal fluid between coaxial squeezing disks. *Advances in Mechanical Engineering*, 13(7), 16878140211033370.
 - Khan, M. S., Mei, S., Ali Shah, N., Chung, J. D., Khan, A. (Corresponding Author), & Shah, S. A. (2022). Steady Squeezing Flow of Magnetohydrodynamics Hybrid Nanofluid Flow Comprising Carbon Nanotube-Ferrous Oxide/Water with Suction/Injection Effect. *Nanomaterials*, 12(4), 660.
 - Khan, M. S., Mei, S., Fernandez-Gamiz, U., Noeiaghdam, S., Shah, S. A., & Khan, A. (2022). Numerical Analysis of Unsteady Hybrid Nanofluid Flow Comprising CNTs-Ferrousoxide/Water with Variable Magnetic Field. *Nanomaterials*, 12(2), 180
 - Khan, M. S., Mei, S., Fernandez-Gamiz, U., Noeiaghdam, S., & Khan, A. (2022). Numerical Simulation of a Time-Dependent Electroviscous and Hybrid Nanofluid with Darcy-Forchheimer Effect between Squeezing Plates. *Nanomaterials*, 12(5), 876.
 - Khan, M. S., Shah, R. A., Mei, S., Shah, S. A., & Khan, A. (2022). Investigation of the Nernst-Planck model for a viscous fluid between squeezing plates of magnetic field of variable intensity. *Physica A: Statistical Mechanics and its Applications*, 594, 126669.
 - Khan, M. S., Mei, S., Fernandez-Gamiz, U., Noeiaghdam, S., Khan, A. (Corresponding Author), & Shah, S. A. (2022). Electroviscous Effect of Water-Base Nanofluid Flow between Two Parallel Disks with Suction/Injection Effect. *Mathematics*, 10(6), 956.
 - Shah, R. A., Khan, A. (Corresponding Author), & Ali, A. (2020). Parametric analysis of magnetic field-dependent viscosity and advection-diffusion between rotating discs. *Advanced Composites Letters*, 29, 2633366X19896373.
 - Shah, R. A., Ullah, H., Khan, M. S., & Khan, A. (Corresponding Author), (2021). Parametric analysis of the heat transfer behavior of the nano-particle ionic-liquid flow between concentric cylinders. *Advances in Mechanical Engineering*, 13(6), 16878140211024009.
 - Shah, R. A., Khan, A., & Shuaib, M. (2018). Analysis of squeezing flow of a viscous fluid between corotating discs with Soret and Dufour effects. *Heat Transfer Research*, 49(11).
 - Alam, M. K., Bibi, K., Khan, A., & Noeiaghdam, S. (2021). Dufour and Soret Effect on Viscous Fluid Flow between Squeezing Plates under the Influence of Variable Magnetic Field. *Mathematics*, 9(19), 2404.
 - Rehman, S., Shah, R. A., Khan, A., & Khan, Z. (2020). Free surface film flow of an unsteady second-grade fluid over a stretching sheet with surface tension linearly varies with temperature. *Physica A: Statistical Mechanics and its Applications*, 551, 123956.
 - Rehman, S., Rehman, S. U., Khan, A., & Khan, Z. (2020). The effect of flow distribution on heat and mass transfer of MHD thin liquid film flow over an unsteady stretching sheet in the presence of variational physical properties with mixed convection. *Physica*

A: Statistical Mechanics and its Applications, 551, 124120.

- Khan, M. S., Shah, R. A., & Khan, A. (2019). Effect of variable magnetic field on the flow between two squeezing plates. *The European Physical Journal Plus*, 134(5), 1-13.
- Shah, R. A., Shuaib, M., & Khan, A. (2017). Dufour and Soret effect on heat and mass transfer with radiative heat flux in a viscous liquid over a rotating disk. *The European Physical Journal Plus*, 132(8), 1-19.
- Rehman, S., Shah, R. A., Idrees, M., & Khan, A. (2021). Mixed convection MHD flows of Ag, Cu, TiO₂, and Al₂O₃ nanofluids over an unsteady stretching sheet in the presence of heat generation along with radiation/absorption effects. *Applied Nanoscience*, 1-17.
- Khan, M. S., Shah, R. A., Ali, A., & Khan, A. (2019). Parametric investigation of the Nernst–Planck model and Maxwell’s equations for a viscous fluid between squeezing plates. *Boundary Value Problems*, 2019(1), 1-16.
- M. Kamran Alam, Khadija Bibi, Khan, A., Waseem Sikandar & Qaisar Khan, A Computational Investigation of The Effect of Magnetic Field on Viscous Fluid Between Squeezing Plates.
- Alam, M. K., Bibi, K., Khan, A., Fernandez-Gamiz, U., & Noeiaghdam, S. (2022). The Effect of Variable Magnetic Field on Viscous Fluid between 3-D Rotatory Vertical Squeezing Plates: A Computational Investigation. *Energies*– 15(7), 2473.
- Jan, W. U., Farooq, M., Baili, J., Shah, R. A., Khan, A., & Ahmad, H. (2021). Magnetic field dependent viscous fluid-flow between squeezing plates with homogeneous and heterogeneous reactions. *Thermal Science*, 25(Spec. issue 2), 423- 431.
- Shah, R. A., Shuaib, M., Ullah, M., & Khan, A. (2017). Free Convection from an infinite disk rotating in a vertical plane with variable magnetic force. *Journal of Computational and Theoretical Nanoscience*, 14(9), 4340-4351.
- Jan, W. U., Farooq, M., Shah, R. A., Khan, A., Zobaer, M. S., & Jan, R. (2021). Flow dynamics of the homogeneous and heterogeneous reactions with an internal heat generation and thermal radiation between two squeezing plates. *Mathematics*, 9(18), 2309.
- Rehman, S., Gul, T., Khan, W., Khan, A., & Zeeshan. (2022). Effects of chemical reaction, viscosity, thermal conductivity, heat source, radiation/absorption, on MHD mixed convection nano-fluids flow over an unsteady stretching sheet by HAM and numerical method. *Advances in Mechanical Engineering*, 14(1), 168781402210743
- Khan, M. S., Shah, R. A., Mei, S., Shabnam, Khan, A., & Shah, S. A. (2022). Active and passive control of nanoparticles in squeezing flow under the influence of a magnetic field of variable intensity. *Advances in Mechanical Engineering*, 14(1), 16878140221075200.
- Jan, W. U., Farooq, M., Khan, A., Alharbi, A., Ali Shah, R., Jan, R., & Ahmed Idris, S. (2022). A Parametric Analysis of the Effect of Hybrid Nanoparticles on the Flow Field and Homogeneous-Heterogeneous Reaction between Squeezing Plates. *Advances in Mathematical Physics*, 2022.
- Shah, R. A., Khan, A. (Corresponding Author), & Shuaib, M. (2018). On the study of flow between unsteady squeezing rotating discs with cross-diffusion effects under the influence of the variable magnetic field. *Heliyon*, 4(11), e00925.
- Shah, R. A., Khan, A., & Shuaib, M. (2018). On Analysis of Squeezing Flow Between Rotating Disks with Cross-Diffusion Effects Under the Influence of Coriolis and Centrifugal Forces. *International Journal of Fluid Mechanics Research*, 45(4).

- Shuaib, M., Shah, R. A., & Khan, A., (2017). Study of second grade fluid over a rotating disk with Coriolis and centrifugal forces. J. Phys. Math., 8(242), 2090-2902.
- Shah, A., Israr, M., & Khan, A. (Corresponding Author), (2020). An investigation of an unsteady thermal-diffusion and diffusion-thermal effects between two long cylinders. G. S. Journals.
- Shabnam, Shah, R. A., Khan, M. S., & Khan, A. (Corresponding Author), (2021). Nanofluid Flow Between Parallel Disks with Nernst-Planck Model. G. S. Journals. 9(11)
- An Investigation of the Magnetic Field Dependent Fluid Viscosity and Thermosolutal Convection with Centrifugal and Coriolis Forces, Frontiers in Physics - Impact Factor 3.523, Accepted (Corresponding Author).
- Hydrodynamic Analysis of the Magnetic Field Dependent Viscous Fluid Flow and Thermosolutal Convection Between Rotating Channels, Scientific Reports - , Accepted
- A Numerical Investigation of Non-Newtonian Power-Law fluid flow with Mixed Convection Under a Magnetic Field, Scientific Reports-, Accepted
- An Investigation of the Nersnt-Planck Model of an Electro-Viscous Fluid Flow between Squeezing Plates with Homogeneous-Heterogeneous Reactions, Micromachines, Accepted (Corresponding Author).
- Electro-Viscous Effect of Nano-Fluid Flow over a Rotating Disk, International Journal of Modern Physics B
- Magnetichydrodynamics Effect of Squeezing flow under the Variable Physical Properties with Entropy Generation, Scientific Reports, Accepted

Research/Managerial Skills:

- Matlab
- Mathematica
- Latex
- MS Word/ PowerPoint/Excel

References

Prof. Dr. Rehan Ali Shah

Department of B.S.I,
University of Engineering and Technology Peshawar,
K.P.K, Pakistan.

Email: mmrehan@yahoo.com

Contact: +923315334606

Prof. Dr. Muhammad Idrees

Department of Mathematics, Islamia College University,
Peshawar, K.P.K, Pakistan.

Email: idrees@icp.edu.pk

Contact : +923329002556