

# **MUBASHAR JAVED** (HEC Approved Supervisor)



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## **Statement of Purpose**

I have nurtured a strong passion to become a professional teacher and pursue research. In the pursuit of knowledge, i have always adopted a rigorous approach in order to attain an indepth understanding of the subject at hand. This is amply reflected from my academic career as well as research profile.

## **EDUCATION/ACADEMIC DEGREES**

**Ph.D Mathematics** November 2020  
**Institution/University:** **Riphah International University, Islamabad**  
**Thesis Title** Melting heat transfer in the flow due to stretching surface of variable thickness

**M. Phil (Applied Mathematics)**  
**Completion Year:** 2012  
**Institution/University:** **Air University, Islamabad, Pakistan**  
**Thesis Title:** Analysis of Sisko fluid past a flat plate with uniform suction

**M. Sc (Mathematics)**  
**Completion Year:** 2005  
**Institution/University:** **University Of Sargodha, Pakistan**  
**Major Courses studied:** Applied Mathematics

**Graduation (B. Sc)**  
**Completion Year:** 2003  
**Institution/University:** **ICB, G-6/3, Islamabad**  
**University Of Punjab**  
**Major Courses studied:** Maths A, Maths B and Physics

**Intermediate (F. Sc)**  
**Completion Year:** 2000

Institution/University: **IMCB, G-10/4, Islamabad**  
**FBISE, Islamabad**  
Major Courses studied: Mathematics, Physics and Chemistry

**Matric**

Completion Year: 1998  
Institution/University: **IMCB, G-10/4, Islamabad**  
**FBISE, Islamabad**  
Major Courses studied: Science Group

**B.ED** **AIOU, Islamabad**

**PROFESSIONAL EXPERIENCE**

- Assistant Professor Mathematics at NUML Mirpur Campus, from 4<sup>th</sup> September to date.
- Lecturer Mathematics at NUML Rawalpindi, from 20<sup>th</sup> September 2021 to 3<sup>rd</sup> September 2023.
- Visting Faculty member at Department of Mathematics & Statistics, Riphah International University, Islamabad, from September 2018 to August 2021.
- Visting Faculty member at National University of Science and Technology (NUST), Islamabad, from February 2021 to July 2022.
- Lecturer Mathematics at Rawal College of Commerce, Rawalpindi, from August 2007 to September 2009.

**RESEARCH AREA(S)**

- Heat and Mass Transfer
- Flow past a sheet of variable thickness
- Melting heat transfer
- Porous medium
- Chemical Reactions
- Newtonian and Non-Newtonian fluids
- Solutions of Non-Linear Differential equations
- Computational Fluid Dynamics
- Series Solutions of Nonlinear Problems
- Fluid Flow with Nanoparticles
- Cattaneo-Christov heat and mass flux models

**RESEARCH COLLABORATIONS**

1. Prof. Dr. Tasawar Hayat (T.I, S.I)
2. Dr. Muhammad Farooq
3. Dr. Ali Saleh Alshomrani (Saudi Arabia)

4. Dr. Muhammad Yousaf Malik

## **PUBLICATIONS IN INTERNATIONAL JOURNALS**

<b>Total Published/accepted</b>	<b>18</b>
<b>ISI Publications</b>	<b>18</b>
<b>Google Scholar Citations</b>	<b>365</b>
<b>H Index</b>	<b>10</b>
<b>i-10 Index</b>	<b>10</b>

### **Accepted/Published**

**1. Melting heat transfer and double stratification in stagnation flow of viscous nanofluid**

M. Farooq, **M. Javed**, M. I. Khan, A. Anjum and T. Hayat

Results in Physics 7 (2017) 2296-2301 Impact Factor: 4.565

**2. Melting heat transfer with radiative effects and homogeneous-heterogeneous reaction in thermally stratified stagnation flow embedded in porous medium**

**M. Javed**, M. Farooq, S. Ahmad and A. Anjum

Journal of Central South University 25 (2018) 2701-2711

Impact Factor: 2.392

**3. Analysis of activation energy and melting heat transfer in MHD flow with chemical reaction**

**M. Javed**, A. A. Alderremy, M. Farooq, Aisha Anjum, S. Ahmad and M.Y. Malik

European Physical Journal Plus 134 (2019) 256 Impact Factor: 3.758

**4. Melting Heat Transfer in Thermally Stratified Magnetohydrodynamic Flow of Eyring-Powell Fluid with Homogeneous-heterogeneous Reaction**

**M. Javed**, M. Farooq, S. Ahmad, and Aisha Anjum

Journal of Magnetism 24(2) (2019) 202-211 Impact Factor: 0.551

**5. Analysis of Cattaneo-Christov heat and mass fluxes in the squeezed flow embedded in porous medium with variable mass diffusivity**

M. Farooq, S. Ahmad, **M. Javed** and A. Anjum

Results in Physics 7 (2017) 3788-3796 Impact Factor: 4.565

**6. Chemically reactive species in squeezed flow through modified Fourier's and Fick's laws**

S. Ahmad, M. Farooq, **M. Javed** and A. Anjum

European Physical Journal Plus 133 (2018) 63 Impact Factor: 3.758

**7. Double stratification effects in chemically reactive squeezed Sutterby fluid flow with thermal radiation and mixed convection**

S. Ahmad, M. Farooq, **M. Javed** and A. Anjum

Results in Physics 8 (2018) 1250-1259 Impact Factor: 4.565

**8. Slip analysis of squeezing flow using doubly stratified fluid**

S. Ahmad, M. Farooq, **M. Javed** and A. Anjum

Results in Physics 9 (2018) 527-533 Impact Factor: 4.565

**9. Physical aspects of heat generation/absorption in the second grade fluid flow due to Riga plate: Application of Cattaneo-Christov approach**

A. Anjum, N. A. Mir, M. Farooq, **M. Javed**, S. Ahmad, M. Y. Malik and A. S. Alshomrani

Results in Physics 9 (2018) 955-960 Impact Factor: 4.565

**10. Diffusive species in MHD squeezed fluid flow through non-Darcy porous medium with viscous dissipation and Joule heating**

S. Ahmad, M. Farooq, A. Anjum, **M. Javed**, M. Y. Malik and A. S. Alshomrani

Journal of Magnetism 23 (2018) 323-332 Impact Factor: 0.551

**11. Melting heat transfer in squeezed nanofluid flow through Darcy Forchheimer medium**

M. Farooq, S. Ahmad, **M. Javed** and A. Anjum

ASME- Journal of Heat Transfer 141 (2018) 012402

Impact Factor: 2.021

**12. Magnetohydrodynamic flow of squeezed Maxwell nano-fluid with double stratification and convective conditions**

S. Ahmad, M. Farooq, **M. Javed** and A. Anjum, Advances in Mechanical Engineering 9 (2018) 1-13 Impact Factor: 1.566

**13. Magneto-hydrodynamic flow of squeezed fluid with binary chemical reaction and activation energy.**

S. Ahmad, M. Farooq, N.A. Mir, A. Anjum and **M. Javed**

Journal of Central South University 26 (2019) 1362–1373 Impact Factor: 2.392

**14. Investigations of viscous dissipation in the stagnation point flow past a stretchable Riga wall: Modern analysis of heat transport**

Aisha Anjum, N. A. Mir, M. Farooq, **M. Javed** and S. Ahmad

Communications in Theoretical Physics 71 (2019) 377-383

Impact Factor: 2.877

**15. Insight of thermally stratified Jeffrey fluid flow inside porous medium subject to chemical species and melting heat transfer**

**Mubashar Javed**, Muhammad Farooq, Aisha Anjum and Shakeel Ahmad

Advances in Mechanical Engineering 11 (2019) 1-14

Impact Factor: 1.566

**16. Mixed convection and melting rheology in dual stratified Eyring-Powell nanofluid flow over surface of variable thickness: Buongiorno model approach**

**Mubashar Javed** and Muhammad Farooq, International Communications in Heat and Mass Transfer 125 (2021) 105322 Impact Factor: 6.782

**17. Nature inspired algorithm based fast Intra mode decision in HEVE**

Junaid Tariq, **Mubashar Javed**, Bushra Ayub, Ammar Armghan, Amir Ijaz, Fayadh Alenezi, Hameedur Rahman, Adil Zulfiqar, MultimediaTools and Applications Impact Factor 2.577

**Recent Accepted Paper**

**18. Melting heat transport in Jeffrey fluid flow past a Riga plate under the effect of viscous dissipation and activation energy**

**Mubashar Javed**, Junaid Tariq and R. Mehmood, Part E:Journal of process Mechanical Engineering Impact Factor: 1.822

**Reviewer Of International Journals**

1- Scientific Reports ISSN 2045-2322

Impact Factor: 4.996

2- Numerical Heat Transfer:Part A Applications

Impact Factor: 2.928