

# Curriculum Vitae

---

## Muhammad Imran Asjad

C-II UMT, Lahore

+923349869929

[imranasjad11@yahoo.com](mailto:imranasjad11@yahoo.com)

### PERSONAL INFORMATION

<b>Father's Name</b>	: Muhammad Ashraf	<b>Domicile</b>	: T. T. Singh ( Punjab)
<b>Date of Birth</b>	: 09/10/1984	<b>Religion</b>	: Islam
<b>CNIC. No.</b>	: 33301-9357895-9	<b>Nationality</b>	: Pakistani
<b>Marital Status</b>	: Single	<b>SEX</b>	: Male

### EDUCATION AND QUALIFICATIONS

- **Ph. D.** (Mathematics); Abdus Salam School of Mathematical Sciences, GCU, Lahore, Pakistan (Complete) (2008-2013).
- **M. Sc** (Mathematics) University of the Punjab 1<sup>st</sup> Div (2005-2007).
- **B. Sc** (Math A+B, Physics) University of the Punjab 1<sup>st</sup> Div (2002-2004).
- **F. Sc** (Mathematics, Physics, Chemistry) BISE Faisalabad 1<sup>st</sup> Div (2000-2002).
- **S.S.C** (Mathematics, Physics, Chemistry, Biology) BISE Faisalabad 1<sup>st</sup> Div (1998-2000).

**COURSES  
TAKEN IN M. SC:**

- Real Analysis I & II
- Group Theory
- Complex Analysis
- Functional Analysis
- Topology
- Numerical Analysis
- Measure Theory
- Linear Algebra
- Mathematical Statistics
- Electromagnetic Theory
- Special Theory of Relativity
- Mathematical physics
- Classical Mechanics
- Vector Analysis
- Analytical Dynamics
- Statistics and Probability Theory

**COURSES TAKEN IN  
DOCTORAL PROGRAM:**

- Linear Algebra
- Advance Real Analysis
- Complex Analysis
- Number Theory
- Algebra I & II
- Ordinary Differential Equations
- Numerical Methods & Analysis
- Partial Differential Equations
- Convex Analysis
- Measure Theory and Integration
- Geometry I & II
- Functional Analysis
- Probability Theory
- Calculus of Variation
- Fractional Calculus
- Differential Manifold
- Dynamical System
- Mathematical Methods in Brain Dynamics
- Approximation Theory
- Integral Transform Methods for Partial Differential Equations
- Fluid Dynamics

## PhD THESIS INFORMATION

### Expertise/Research Interest:

- Fluid Dynamics
- Heat and Mass Transport Phenomena
- Ordinary and Partial Differential Equations
- Integral Transforms

### Title of Dissertation:

- Unsteady Flows of Some Rate Type Fluids

### Supervisor:

- Prof. Dr. Constantin Fetecau  
Gh. Asachi Technical University of Iasi, Romania

## RESEARCH FELLOWSHIPS

- Has worked as a Ph. D Research Fellow with the Fluid Dynamics research group under Nanotechnology Research Alliance and Mathematics Program, Ibnu Sina Institute for Fundamental Science Studies, Faculty of Science at Universiti Teknologi Malaysia(UTM) during the month June-July, 2012.

## LOCAL AND INTERNATIONAL TESTS

- |                      |                     |
|----------------------|---------------------|
| • GATE general Local | Score=53            |
| • GATE Subject Local | Score=62            |
| • GRE International  | Score=69 Percentile |

## SCHOLARSHIPS RECEIVED

- Talent Farming Scholarship under the HEC program.
- Receives a Ph. D Research Scholarship from the **Abdus Salam School of Mathematical Sciences**, GC University, Lahore
- Awardees of **HEC 5000 Indigenous Scholarship** Program for Ph. D Studies.

## TRAININGS & WORKSHOPS

- One day Training on Microsoft Excel basic level at **University of Management and Technology**, September 23, 2014.
- One day workshop on “How to Publish Your Research in an International Journal” at **University of Management and Technology**, October 13, 2014.
- One day Moodle Training at **University of Management and Technology**, October 24, 2014.

## CONFERENCES & SEMINARS

- [Presented a research article in the 1st International Conference on Advancements in Mathematics](#), CIIT Attock 11-13 February, 2015
- Presented a research article in the **Two days International Conference on Pure and Applied Mathematics held at Sargodha University, Sargodha, Pakistan**, March 08-09, 2015.
- Presented a research article in the **1st UMT National Conference on Pure and Applied Mathematics (1st UNCPAM 2015)**, Lahore, Pakistan, March 07-08, 2015.
- Presented a research article in the **6<sup>th</sup> World Conference on 21<sup>st</sup> Century Mathematics held at Abdus Salam School of Mathematical Sciences (ASSMS), Lahore, Pakistan**, and March 06-09, 2013.
- Invited Seminars at **University Teknologi Malaysia (UTM)** during the months June – July, 2012.
- Presented a research paper in the **5<sup>th</sup> World Conference on 21<sup>st</sup> Century Mathematics held at Abdus Salam School of Mathematical Sciences (ASSMS), Lahore, Pakistan**, February 09-13- 2011.
- International Conference Design, Technology and Management in Manufacturing **Under the auspices of Romanian Ministry Education, Research, Youth and Sport Romanian Technical Sciences Academy**, 14-16 May, 2010.
- Participated in the **4<sup>th</sup> World Conference on 21<sup>st</sup> Century Mathematics held at Abdus Salam School of Mathematical Sciences (ASSMS)**, Lahore, Pakistan, and March 04-08, 2009.
- One Day Symposium on Mathematics In **Lahore College For Women university Lahore**,

Pakistan in Collaboration with Abdu's Salam School of Mathematical Sciences March 26, 2009.

- Third International Conference on Recent Development in Fluid Mechanics **Quaid-e-Azam University Islamabad**, Pakistan, held July 30-August 01, 2009.
- Presented several talks in Bi-Annual **Seminar Series** at **Abdus Salam School of Mathematical Sciences (ASSMS)**, GC University Lahore

#### MEMBERSHIP IN ACADEMIC PROFESSIONAL SOCIETIES

- National Mathematical Society of Pakistan
- Vice President of Khwarizmi Mathematical Society UMT

#### COMPUTER LITERACY

- Windows installation
- Professional Microsoft Word, PowerPoint, Excel knowledge
- Typesetting with TeX & LaTeX

#### LANGUAGES

- Fluent in Urdu, Punjabi
- Conversational English

#### HOBBIES

- Book Reading
- Tourism
- Internet Surfing
- Cricket
- Football
- Badminton

#### RESEARCH PAPERS

- (01) Starting Solutions for motion of Maxwell fluid over an infinite plate that applies an oscillating shear to the fluid., M. A. Imran, A. Sohail, Nazish Shahid, (Publish in Arabian Journal for Science and Engineering, **Volume 38, Issue 11 (2013), Page 3181-3190** ISSN: 1319-8025) (Impact Factor 0.385).
- (02) Exact solutions for oscillating motion of a second grade fluid along an edge with mixed boundary conditions., **M. A. Imran**, A. Sohail, Nazish Shahid,(Publish in Chemical Engineering Communications Volume 199, Issue 9, **ISSN: 0098-6445) (Impact Factor 1.052)**.
- (03) On the energetic balance for the flow of an Oldroyd-B fluid induced by constantly accelerated plate., Corina Fetecau, **M. A. Imran**, E. Axiente, C. Fetecau *Z. Angew. Maths. Pyhs. Volume 61, Issue 6, pp.1085-1095* , 2010 ISSN:0044-2275 (**Impact Factor 0.938**).
- (04) New exact solutions for an Oldroyd-B fluid with Fractional Derivative., M. Jamil, N. A. Khan, **M. A. Imran** (Publish in IJNSNS DOI 10.1515/ IJNSNS. 2011 .024 (**ISSN : 1565-1339) Impact Factor 0.622**
- (05) On the Unsteady rotational flow of Fractional Oldroyd-B fluid in cylindrical Domains., M. Kamran, M. Imran, M. Athar, **M. A. Imran**, *Mecannica An international Journal of Theoretical and Applied Mechanics* March 2012, Volume 47, Issue 3, pp 573-584 **ISSN: 1572-9648) (Impact Factor 1.558)**
- (06) On Stokes' problems for the fluids of Brinkman Type. Corina Fetecau, C. Fetecau, **M. A. Imran** ( [www.csm.ro/reviste/Mathematical\\_Reports/Pdfs/2011/.../Fetecau.pdf](http://www.csm.ro/reviste/Mathematical_Reports/Pdfs/2011/.../Fetecau.pdf)) 13(63), 1 (2011), 15–26 ISSN : 1582-3067 (**Impact Factor 0.098**).
- (07) "Unsteady rotating flows of Oldroyd-B fluids with fractional derivatives" by M. Jamil., N. A. Khan., and **M. A. Imran**. ( *International Journal of Chemical Reactor Engineering* ISSN 1542-6580, DOI: 10.2202/1542-6580.2620, December 2011) **Impact Factor 0.79**.
- (08) On the oscillating motion of an Oldroyd-B fluid between two infinite circular cylinders. Corina Fetecau, W. Akhtar, **M. A. Imran**, D. Vieru (*Computers Mathematics with Applications* Volume 59 Issue 8, April, 2010 pp 2836-2845, ISSN: 0898-1221). **Impact Factor 2.069**.
- (09) Influence of side walls on the oscillating motion of a Maxwell fluid over an infinite plate. A. Sohail, D. Vieru and **M. A. Imran** ISSN 1392 - 1207. *MECHANIKA*. 2013 Volume 19(3): 269-276 **Impact factor 1.144**.
- (10) Slip Effect of second grade on free convection flow with Ramped wall Temperature. (*Published in Heat Transfer Research*) ISSN:1064-2285 **M. A. Imram, D. Vieru and A. Rauf**. **Impact Factor 0.277**
- (11) Unsteady flow of an Oldroyd-B fluid within curved duct due to an oscillating circumferential Pressure gradient. Vieru, Dumitru; Siddique, Imran; **Asjad, Muhammad Imran** [*J*] *Bul. Inst. Politeh. Iasi, Sec\_. I, Mat. Mec. Teor. Fiz.* 56(60), No. 3, 57-68 (2010). ISSN: 1244-786.
- (12) Flow of an Oldroyd-B fluid over an infinite plate subject to a time dependent shear stress Nazish Shahid, Mehwish Rana, **M. A. Imran** (Published in *Journal of Prime Research in Mathematics Vol. 7(2011), 52-62*).
- (13) Exact Solutions for some unsteady motions of a second grade fluid in a rectangular edge., A. Sohail, **M. A. Imran**, Mehwish Rana, (Accepted in *The Journal of Mathematics and its Applications*).

- (14) **M.A. Imran**, Mehwish Rana, Corina Fetecau, *Unsteady motions of two kinds of viscoelastic fluids over an infinite wall subject to a time-dependent shear stress*. Bul. Inst. Polit. Iasi, Tomul LVII (LXI), Fasc. 1 (2011) 125-135, ISSN 1244-7863 (indexed in **Zentralblatt**).
- (15) D. Vieru, Corina Fetecau, **Muhammad Asjad Imran**, *Unsteady flow of a generalized Oldroyd-B fluid in an oscillating duct of rectangular cross-section*. Bul. Inst. Polit. Iasi, Tomul LVI (LX), Fasc.4 (2010) 47-62, ISSN 1244-7863 (indexed in **Zentralblatt**)
- (16) **M. A. Imran**, M. Imran, Constantin Fetecau, *MHD oscillating flows of rotating second grade fluids in a porous medium*, Communications in Numerical Analysis, Volume 2013, Article ID cna-00196, (2013) 12 Pages, ISSN 2193-4215, DOI:10.5899/2013/cna-00196 (indexed in **Zentralblatt**)
- (17) The influence of Ekman number on flows over an oscillating isothermal vertical plate in a rotating frame, **Muhammad Asjad Imran**, Dumitru Vieru and Itrat Abbas Mirza  
Journal of Applied Fluid Mechanics, Vol. 8, No. 4, pp. 781-791, 2015. **Impact Factor:0.75**
- (18) Taylor-Couette Flow of an Oldroyd-B Fluid in an Annulus Subject to a Time-dependent Rotation  
M. Imran , Madeeha Tahir , **M. A. Imran** , A. U. Awan, American Journal of Applied Mathematics.  
Special Issue: Proceedings of the 1st UMT National Conference on Pure and Applied Mathematics  
(1st UNCPAM 2015). Vol. 3, No. 3-1, 2015, pp. 25-31.
- (19) General Solution for Free Convection of Viscous Fluid Near an Infinite Isothermal Vertical Plate that Applies a Shear Stress to the Rotating Fluid, **M. A. Imran\***, Shakila Sarwar, D. Vieru, M. Nazar, American Journal of Applied Mathematics. Special Issue: Proceedings of the 1st UMT National Conference on Pure and Applied Mathematics (1st UNCPAM 2015).
- (20) New Exact solutions for the flow of Generalized Maxwell fluid M.B.Riaz1 **M. A.Imran**, K. Shabbir (Submitted to Journal of Applied Mathematics and Information Sciences)

- **Professor Dr. A.D.R. Choudary**

Director General  
Abdus Salam School of Mathematical Sciences  
Director  
National Center for Mathematics  
GC University, Lahore-PAKISTAN  
Emeritus Professor  
Central Washington University, USA  
Phone: +92-42-99231189  
Fax: +92-42-35864946  
E-mail: [choudary@cwu.edu](mailto:choudary@cwu.edu)

- **Professor Dr. Constantin Fetecau**

Department of Mathematics  
Technical University of Iasi, R-6600, ROMANIA  
Associate member of Academy of Romanian Scientists, 050094, Bucuresti, ROMANIA  
E-mail: [c\\_fetecau@yahoo.com](mailto:c_fetecau@yahoo.com)  
E-mail: [fetecau@math.tuiasi.ro](mailto:fetecau@math.tuiasi.ro)

- **Associate Professor Dr. Dumitru Vieru**

Department of Theoretical Mechanics  
Technical University "Gheorghe Asachi" of IASI, Bd. D. Mangeron, nr. 39, 700050-Iasi,  
ROMANIA  
E-mail: [dumitru\\_vieru@yahoo.com](mailto:dumitru_vieru@yahoo.com)  
E-mail: [dvieru@tuiasi.ro](mailto:dvieru@tuiasi.ro)