

Muhammad Ahmed

Cell # 0344-5698885 & 0308-0792393

Email: m.ahmed571d@gmail.com

Date of Birth: 25-12-1995

Location: Islamabad



EXPERIENCE:

Visiting Faculty (Riphah International University Islamabad, Pakistan)

One year experience (**Fall 2024 to Spring 2025**)

- Numerical Computing
- Discrete Structures

EDUCATION/ ACADEMIC DEGREES:

PhD (2022) (In progress)	Department of Mathematics Institute of Space Technology, Islamabad, Pakistan Batch: PhD-12 CGPA: 3.42/4.00
M.Phil. (2019-21):	Department of Mathematics COMSATS University, Islamabad, Pakistan Thesis Title: Entropy generation in a dissipative nanofluid flow CGPA: 3.44/4.00
B.S. (2014-18):	Department of Mathematics International Islamic University Islamabad, Pakistan CGPA: 3.51/4.00

RESEARCH AREAS:

- Boundary layer flow of Newtonian and non-Newtonian fluids
- Fluid Flow with Nanoparticles
- Computational Fluid Dynamics
- Solutions of Non-linear Differential Equations

RESEARCH PAPER/ PUBLICATION:

1. Munir, S., **Ahmed, M.** and Amin, A., 2023. Entropy minimization study of Maxwell nanofluid flow using oxides nanoparticles under transpiration and magnetic dissipation effects. *Numerical Heat Transfer, Part A: Applications*, pp.1-14.
<https://doi.org/10.1080/10407782.2023.2235073>

2. Madkhali, H.A., **Ahmed, M.**, Nawaz, M., Alharbi, S.O., Alqahtani, A.S. and Malik, M.Y., 2023. Computational study on the effects of Brownian motion and thermophoresis on thermal performance of cross fluid with nanoparticles in the presence of Ohmic and viscous dissipation in chemically reacting regime. *Computational Particle Mechanics*, pp.1-11.
<https://doi.org/10.1007/s40571-023-00687-7>
3. Madkhali, H.A., **Ahmed, M.**, Nawaz, M., Alharbi, S.O., Alqahtani, A.S. and Malik, M.Y., 2023. Numerical study on the role of ternary nanoparticles on heat transfer enhancement in MHD flow of cross-rheological-fluid. *Case Studies in Thermal Engineering*, 51, p.103579.
<https://doi.org/10.1016/j.csite.2023.103579>
4. Nawaz, M., Madkhali, H.A., **Ahmed, M.**, Alharbi, S.O., Alqahtani, A.S. and Malik, M.Y., 2024. Numerical study on the influence of tri-nanoparticles suspension on heat transfer in MHD Oldroyd-B fluid. *Journal of Thermal Analysis and Calorimetry*, pp.1-11.
<https://doi.org/10.1007/s10973-024-13175-8>

Skills:

- Professional Microsoft Word, Power point knowledge
- MATLAB (completed two weeks course of “MATLAB FOR MATH & DATA SCIENCE”)