Junaid Ahmad Khan

Associate Professor

Pakistan Navy Engineering College

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About

Dr. Junaid Ahmad Khan is working as Associate Professor in the Pakistan Navy Engineering College. Dr. Junaid Ahmad Khan has a PhD in Applied Mathematics. Dr. Junaid Ahmad Khan has published 29 research articles & conference papers having a citation count of 1546, carried out 5 projects and filed 0 intellectual property.

Qualifications

PhD in Applied Mathematics 2012 - 2016
NUST, Islamabad , Pakistan

MS in (Computational Fluid Dynamics) 2008 - 2010
NUST, Islamabad , Pakistan

BS in (Computational Physics) 2004 - 2008
University of the Punjab , Pakistan

Experience

Associate Professor 2023- Present
Pakistan Navy Engineering College

Assistant Professor 2022 - 2023
Pakistan Navy Engineering College

Assistant Professor 2022 - 2022
School of Interdisciplinary Engineering & Sciences

Assistant Professor 2021 - 2022
Research Centre for Modelling & Simulation

Assistant Professor 2016 - 2021
Research Centre for Modelling & Simulation

Research Projects

National Projects

Design and Development of Autonomous Underwater vehicle (AUV) Pakistan Navy Engineering College (PNEC) 2024

Funding Agency: NUST
Amount: PKR 10,000,000.00
Status: Approved_inprocess

Simulation Model for Electro-Optical Engagement System-Phase II in the field of Physics / Computer Vision & Engineering / Electronics 2021

Funding Agency: NESCOM
Amount: PKR 200,000.00
Status: Approved_inprocess

Simulation Model for Electro-Optical Engagement System 2018

Funding Agency: NESCOM
Amount: PKR 300,000.00
Status: Completed

Simulation Model for Electro-Optical Engagement System - Phase - II 2021

Funding Agency: NESCOM
Amount: PKR 200,000.00
Status: Approved_inprocess

Simulation Model for Electro-Optical Engagement 2018

Funding Agency: NESCOM
Amount: PKR 300,000.00
Status: Completed

International Projects

Research Articles

Regression modeling of Bödewadt slip flow dynamics involving Reiner-Rivlin nanofluid based on a modified Buongiorno approach 2024

Tayyaba Ibrahim Meraj Mustafa Junaid Ahmad Khan Ammar Mushtaq
Physica scripta , Volume 99, Number 10, Article Number 105042
Impact Factor: 2.600 | **Quartile:** 2
DOI: 10.1088/1402-4896/ad78c1

Bayesian and Numerical Techniques for Non-Newtonian Bödewadt Nanofluid Flow Above a Stretchable Stationary Disk 2022

Ume Hani Junaid Ahmad Khan Amar Ali Rauf F. Mustafa S. A. Shehzad
Arabian Journal for Science and Engineering, Pages 1-15
Impact Factor: 2.334 | **Quartile:** 3 | **Citations:** 5
DOI: https://doi.org/10.1007/s13369-022-06773-x

Rotationally symmetric flow of Reiner-Rivlin fluid over a heated porous wall using numerical approach 2021

Junaid Ahmad Khan Talat Rafiq Meraj Mustafa Hashmi
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science , Pages 1-12
Impact Factor: 1.758 | **Quartile:** 3 | **Citations:** 12
DOI: https://doi.org/10.1177/09544062211034204

Numerical study of Bödewadt slip flow on a convectively heated porous disk in a nanofluid 2019

Talat Rafiq Meraj Mustafa Hashmi Junaid Ahmad Khan
Physica Scripta , Volume 94, Issue 9, Article Number: 095701
Impact Factor: 1.985 | **Quartile:** 2 | **Citations:** 14
DOI: https://doi.org/10.1088/1402-4896/ab1549

A revised model to study the MHD nanofluid flow and heat transfer due to rotating disk: numerical solutions 2018

Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi Meraj Mustafa Hashmi
Neural Computing and Applications, NULL
Impact Factor: 4.664 | **Quartile:** 1 | **Citations:** 30
DOI: https://link.springer.com/article/10.1007/s00521-016-2743-4

Consequences of convection-radiation interaction for magnetite-water nanofluid flow due to a moving plate 2018

Ammar Mushtaq Junaid Ahmad Khan Meraj Mustafa Hashmi Tasawar Hayat Ahmad Alsaedi

Thermal Science , Volume 22(1B), Pages 443-451

Impact Factor: 1.541 | **Quartile:** 3 | **Citations:** 3

DOI: 10.2298/TSCI151128212M

A numerical analysis for non-linear radiation in MHD flow around a cylindrical surface with chemically reactive species 2018

Junaid Ahmad Khan Meraj Mustafa Hashmi

Results in Physics, Volume 8, Pages 963-970

Impact Factor: 3.042 | **Quartile:** 1 | **Citations:** 26

DOI: 10.1016/j.rinp.2017.12.067

Numerical Solutions for Radiative Heat Transfer in Ferrofluid Flow due to a Rotating Disk: Tiwari and Das Model 2018

Meraj Mustafa Junaid Ahmad Khan T. Hayat A. Alsaedi

International Journal of Nonlinear Sciences and Numerical Simulation, NULL

Impact Factor: 1.033 | **Quartile:** 3 | **Citations:** 12

DOI: 10.1515/ijnsns-2015-0196

Numerical tackling for viscoelastic fluid flow in rotating frame considering homogeneous-heterogeneous reactions 2017

Najwa Maqsood Meraj Mustafa Hashmi Junaid Ahmad Khan

Results in Physics, NULL

Impact Factor: 2.147 | **Quartile:** 2 | **Citations:** 16

DOI: 10.1016/j.rinp.2017.09.011

Numerical study of partial slip effects on MHD flow of nanofluids near a convectively heated stretchable rotating disk 2017

Meraj Mustafa Junaid Ahmad Khan

Journal of Molecular Liquids, Volume 234, Pages 287-295

Impact Factor: 4.513 | **Quartile:** 1 | **Citations:** 38

DOI: 10.1016/j.molliq.2017.03.087

Numerical study for Bodewadt flow of water based nanofluid over a deformable disk: Buongiorno model 2017

Meraj Mustafa Hashmi Junaid Ahmad Khan T. Hayat F Alzahrani

Indian Journal of Physics, Volume 91, Issue 5, Pages: 527-533

Impact Factor: 0.967 | **Quartile:** 3 | **Citations:** 19

DOI: 10.1007/s12648-017-0959-5

Buoyancy effects on the MHD nanofluid flow past a vertical surface with chemical reaction and activation energy 2017

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

International Journal of Heat and Mass Transfer, Volume 108, Pages 1340-1346, Part: B

Impact Factor: 3.891 | **Quartile:** 1 | **Citations:** 233

DOI: 10.1016/j.ijheatmasstransfer.2017.01.029

Numerical Analysis of Sakiadis Flow Problem Considering Maxwell Nanofluid 2017

Meraj Mustafa Hashmi Junaid Ahmad Khan

Thermal Science , Volume 21(6 Part B), Pages 2747-2756

Impact Factor: 1.433 | **Quartile:** 3 | **Citations:** 1

DOI: https://doi.org/10.2298/TSCI150306001M

On three-dimensional flow of nanofluids past a convectively heated deformable surface: A numerical study 2016

Junaid Ahmad Khan Meraj Mustafa Ammar Mushtaq

International Journal of Heat and Mass Transfer, Volume 94, Pages 49-55

Impact Factor: 3.458 | **Quartile:** 1 | **Citations:** 17

DOI: 10.1016/j.ijheatmasstransfer.2015.11.036

On Bodewadt flow and heat transfer of nanofluids over a stretching stationary disk 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

Journal of Molecular Liquids, Volume 211, Pages 119-125

Impact Factor: 2.740 | **Quartile:** 2 | **Citations:** 115
DOI: 10.1016/j.molliq.2015.06.065

Numerical study on three-dimensional flow of nanofluid past a convectively heated exponentially stretching sheet 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan T. Hayat A. Alsaedi

Canadian Journal of Physics, Volume 93, Issue 10, Pages 1131-1137

Impact Factor: 0.724 | **Quartile:** 3 | **Citations:** 10
DOI: 10.1139/cjp-2014-0433

Numerical Study of Cattaneo-Christov Heat Flux Model for Viscoelastic Flow Due to an Exponentially Stretching Surface 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

PLoS ONE , Volume: 10, Issue: 9, Article Number: e0137363

Impact Factor: 3.057 | **Quartile:** 1 | **Citations:** 142
DOI: 10.1371/journal.pone.0137363

Model for flow of Casson nanofluid past a non-linearly stretching sheet considering magnetic field effects 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan

AIP Advances , Volume 5, Issue 7, Article Number: 077148

Impact Factor: 1.444 | **Quartile:** 3 | **Citations:** 184
DOI: 10.1063/1.4927449

Three-dimensional flow of nanofluid over a non-linearly stretching sheet: An application to solar energy 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

International Journal of Heat and Mass Transfer, Volume 86, Pages 158-164

Impact Factor: 2.857 | **Quartile:** 1 | **Citations:** 157
DOI: 10.1016/j.ijheatmasstransfer.2015.02.078

Analytical and numerical solutions for axisymmetric flow of nanofluid due to non-linearly stretching sheet 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

International Journal of Non-Linear Mechanics, Volume 71, Pages 22-29

Impact Factor: 1.920 | **Quartile:** 2 | **Citations:** 108
DOI: 10.1016/j.ijnonlinmec.2015.01.005

Three-dimensional flow of nanofluid induced by an exponentially stretching sheet: An application to solar energy 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan T. Hayat M. Sheikholeslami A. Alsaedi

PLoS ONE , Volume: 10 Issue: 3 Article Number: e0116603

Impact Factor: 3.057 | **Quartile:** 1 | **Citations:** 68
DOI: 10.1371/journal.pone.0116603

Simulations for Maxwell fluid flow past a convectively heated exponentially stretching sheet with nanoparticles 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

AIP Advances , Volume 5, Issue 3, Article Number: 037133

Impact Factor: 1.444 | **Quartile:** 3 | **Citations:** 66
DOI: http://dx.doi.org/10.1063/1.4916364

Sakiadis flow of Maxwell fluid considering magnetic field and convective boundary conditions 2015

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

AIP Advances , Volume 5, Issue 2, Article Number: 027106

Impact Factor: 1.444 | **Quartile:** 3 | **Citations:** 47
DOI: http://dx.doi.org/10.1063/1.4907927

Boundary Layer Flow of Nanofluid Over a Nonlinearly Stretching Sheet With Convective Boundary Condition 2015

M. Mustafa Junaid A. Khan T. Hayat A. Alsaedi

IEEE Tractions on Nanotechnology, Volume 14, Issue 1, Pages 159-168

Impact Factor: 1.702 | **Quartile:** 2 | **Citations:** 37
DOI: 10.1109/TNANO.2014.2374732

On Three-Dimensional Flow and Heat Transfer over a Non-Linearly Stretching Sheet: Analytical and Numerical Solutions 2014

Meraj Mustafa Hashmi Junaid Ahmad Khan Tasawar Hayat Ahmed Alsaedi

PLoS ONE, Volume 9, Issue 9, Article Number e107287

Impact Factor: 3.234 | **Quartile:** 1 | **Citations:** 76

DOI: 10.1371/journal.pone.0107287

On model for three-dimensional flow of nanofluid: An application to solar energy 2014

Junaid Ahmed Kan M Mustafa T Hayat M A Farooq A Alsaedi S. J. Liao

Journal of Molecular Liquids, Volume 194, Pages 41-47

Impact Factor: 2.515 | **Quartile:** 2 | **Citations:** 110

DOI: 10.1016/j.molliq.2013.12.045

Conference Proceedings

Studying the Performance of Transonic Axial Flow Compressor by Implementing Circumferential Grooves, Tip Recess and Tip Injection 2012

Junaid Ahmad Khan Ammar Mushtaq Khalid Parvez Sijal Ahmad

50th AIAA Aerospace Science Meeting including the New Horizons Forum and Aerospace Exposition, res.country(233,)

Citations: N/A

DOI: 10.2514/6.2012-329

Parametric Study of Tip Injection on Stability of Transonic Axial Flow Compressor 2011

Ammar Mushtaq Khalid Parvez Sijal Ahmed Memon Junaid Ahmad Khan

49th Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, res.country(233,)

Citations: N/A

DOI: doi/10.2514/6.2011-744

Effect of Circumferential Grooves and Tip Recess on Stall Characteristics of Transonic Axial Compressor Rotor 2011

Junaid Ahmad Khan Khalid Parvez Sijal Ahmad Ammar Mushtaq

49th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, res.country(233,)

Citations: N/A

DOI: 10.2514/6.2011-743

Editorial Activities

2018

Reviewed Papers for Journals