Azam Khan

Professor

NUST Institute of Civil Engineering

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About

Dr. Azam Khan is working as Professor in the NUST Institute of Civil Engineering. Dr. Azam Khan has a PhD in Structural Mechanics. Dr. Azam Khan has published 29 research articles & conference papers having a citation count of 157, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Structural Mechanics 2004 - 2008
Imperial College London , United Kingdom

MSc in Concrete structures 2004 - 2004
Imperial College London , United Kingdom

MBA in HRM 2003 - 2003
Iqra University , Pakistan

BSc in Civil Engineering 2002 - 2002
UET Peshawar , Pakistan

Experience

Professor 2024- Present
NUST Institute of Civil Engineering

Associate Professor 2022 - 2024
NUST Institute of Civil Engineering

Assistant Professor 2019 - 2022
NUST Institute of Civil Engineering

Senior Structural Engg 2016 - 2018
Swaton Consulting London., UK , Not applicable

Civil Structural Engg 2011 - 2016
SNC Lavalin Ltd, UK , Not applicable

Engineer 2009 - 2011
Noble Denton Consultant (GL) UK

Professional Memberships

PECQ Since 2003

UK ENGINEERING Since 2014

Research Projects

National Projects

Seismic Performance Evaluation of low-rise Buildings made with Interlocking Compressed Earth Blocks 2022
Funding Agency: HEC-NRPU
Amount: PKR 13,208,000.00
Status: Approved_inprocess

International Projects

Industry Projects

National Projects

Exploring Collaboration Opportunity for Product Testing, and Product Development between IIL Construction Solution and NUST.and NUST 2023

Client: IIL Construction Solution, Landhi Industrial Area, Karachi

Amount: PKR 1,875,000.00

Status: Approved_inprocess

Non-destructive testing of shotcreted tunnel at POF (Wah Cantt) 2023

Client: Directorate of Civil Works

Amount: PKR 100,000.00

Status: Completed

International Projects

Research Articles

Non-linear complementarity model including large displacements and strain rate effects for RC beams under impact 2025

Muhammad Anas Haseeb Ahmed Azam Khan Mudassir Arshad Moiz Tariq

Engineering Structures , Volume:341, Article Number 120865

Impact Factor: 6.400 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.engstruct.2025.120865

RC beam response to impact utilizing rigid-viscoplastic linear complementarity 2024

Asad Ullah Azam Khan Moiz Tariq Hafiz Ahmed Waqas Arbaz Khan

Structures , Volume 67, Article Number 106927

Impact Factor: 3.900 | **Quartile:** 1 | **Citations:** 2

DOI: https://doi.org/10.1016/j.istruc.2024.106927

A Time-Step-Modified Linear Complementarity Approach for Analysing a Simply Supported Steel Beams Subjected to Far-Field Blast Loading 2024

Moiz Tariq Azam Khan Hammad Anis Khan Iqra Hussain

International Journal of Steel Structures, Pages 1-20

Impact Factor: 1.100 | **Quartile:** 3

DOI: https://doi.org/10.1007/s13296-024-00854-3

Response of shear critical RC beam under transverse impact using improved linear complementarity 2023

Azam Khan Asad Ullah Moiz Tariq Hafiz Ahmed Waqas Arbaz Khan Junaid Shah

Structures , Volume 54, Pages 1520-1540

Impact Factor: 4.010 | **Quartile:** 2 | **Citations:** 5

DOI: https://doi.org/10.1016/j.istruc.2023.05.097

An Improved Linear Complementarity Solver for the Dynamic Analysis of Blast Loaded Structures 2022

Azam Khan Moiz Tariq Asad Ullah Arshad Hussain

International Journal of Concrete Structures and Materials, Volume 16, Issue 1, Article Number 47

Impact Factor: 3.192 | **Quartile:** 2 | **Citations:** 1

DOI: https://doi.org/10.1186/s40069-022-00532-w

Shear Strength Prediction Model for RC Exterior Joints Using Gene Expression Programming 2022

Moiz Tariq Azam Khan Asad Ullah

Materials , Volume 15, Issue 20, Article Number 7076

Impact Factor: 3.748 | **Quartile:** 1 | **Citations:** 5

DOI: 10.3390/ma15207076

Predicting the Response of RC Beam from a Drop-Weight Using Gene Expression Programming 2022

Moiz Tariq Azam Khan Asad Ullah

Materials , Volume 15, Issue 19, Article Number 6910

Impact Factor: 3.748 | **Quartile:** 1 | **Citations:** 5

DOI: 10.3390/ma15196910

Shear Strength Model for Reinforced Concrete Corner Joints Based on Soft Computing Techniques 2022

Moiz Tariq Azam Khan Asad Ullah Muhammad Waseem Hassan Nasir Irfan Jamil

Advances in Civil Engineering , Volume 2022, Article ID 7156691, 23 pages

Impact Factor: 1.843 | **Quartile:** 3 | **Citations:** 2
DOI: https://doi.org/10.1155/2022/7156691

Damage assessment of reinforced concrete beams using cost-effective MEMS accelerometers 2022

Sultani Mulk Khan Muhammad Usman Hanif Azam Khan Muhammad Usman Hassan Ahad Javanmardi Atif Ahmad

Structures , Volume 41, Pages 602-618

Impact Factor: 2.983 | **Quartile:** 2 | **Citations:** 16
DOI: https://doi.org/10.1016/j.istruc.2022.04.101

Gene Expression Programming for Estimating Shear Strength of RC Squat Wall 2022

Moiz Tariq Azam Khan Asad Ullah Bakht Zamin Kazem Reza Kashyzadeh Mahmood Ahmad

Buildings , Volume 12 Issue 7

Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 10
DOI: doi.org/10.3390/buildings12070918

Flexure and Shear Response of an impulsively loaded rigid-plastic beam by enhanced linear complementarity approach 2022

Azam Khan Moiz Tariq Asad Ullah Niaz Bahadur Khan Mohammed Jameel

Scientific Reports , Volume 12, Article Number 9893

Impact Factor: 4.379 | **Quartile:** 1 | **Citations:** 2
DOI: 10.1038/s41598-022-14082-4

Improved Shear Strength Prediction Model of Steel Fiber Reinforced Concrete Beams by Adopting Gene Expression Programming 2022

Moiz Tariq Azam Khan Asad Ullah Javad Shayanfar Momina Niaz

Materials , Volume 15(11), Article Number 3758

Impact Factor: 3.623 | **Quartile:** 1 | **Citations:** 19
DOI: https://doi.org/10.3390/ma15113758

Experimental study of scour around bridge pile using efficient cross-section 2022

Moiz Tariq Azam Khan Mujahid Khan

Applied Sciences , Volume 12(10), Article Number 5205

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 6
DOI: https://doi.org/10.3390/app12105205

Numerical investigation of the effect of spanwise length and mesh density on flow around cylinder at Re = 3900 using LES model 2022

Haider Ali Niaz Bahadur Khan Muhammad Jameel Azam Khan Muhammad Sajid Adnan Munir A. El-Sayed Ahmed Khalid Abdulkhaliq M. Alharbi Ahmed M. Galal

PLoS One , Volume 17(4), Article Number e0266065

Impact Factor: 3.240 | **Quartile:** 2 | **Citations:** 6
DOI: 10.1371/journal.pone.0266065

Mechanical properties, drying shrinkage and structural performance of coconut shell lightweight concrete 2022

Waqas Aziz Muhammad Aslam Muhammad Fahad Ejaz M. Jahanzaib Ali Riaz Ahmad M. Wajeeh ul Hassan Raza Azam Khan

Structures , Volume 35, Pages 26-35

Impact Factor: 2.983 | **Quartile:** 2 | **Citations:** 21
DOI: https://doi.org/10.1016/j.istruc.2021.10.092

A modified Lemke Algorithm for dynamic rigid plastic response of skeletal structures 2021

Azam Khan Niaz Bahadur Khan Irshad Ahmad Wajid Khan Muhammad Aslam

Computers & Structures , Volume 256, Article Number 106638

Impact Factor: 4.578 | **Quartile:** 1 | **Citations:** 6
DOI: https://doi.org/10.1016/j.compstruc.2021.106638

A regression model for predicting the shear strength of RC knee joint subjected to opening and closing moment 2021

Azam Khan Muhammad Usman Hanif Moiz Tariq Javad Shayanfar Asad Ullah

Journal of Building Engineering , Volume 41, Article Number 102727

Impact Factor: 5.318 | **Quartile:** 1 | **Citations:** 12
DOI: doi.org/10.1016/j.jobe.2021.102727

Performance evaluation of bacterial self-healing rigid pavement by incorporating recycled brick aggregate 2021

Babar Saleem Arshad Hussain Afaq Khattak Azam Khan

Cement and Concrete Composites, Volume 117, Article Number 103914

Impact Factor: 9.930 | **Quartile:** 1 | **Citations:** 26

DOI: https://doi.org/10.1016/j.cemconcomp.2020.103914

IN-PLACE ANALYSIS OF JACKET OFFSHORE STRUCTURE UNDER STORM CONDITIONS 2013

Azam Khan Irshad Ahmad

Journal of Engineering and applied Sciences, Vol 32 No 1 (2013)

Impact Factor: N/A

DOI: -

Time History Analysis of Seismically Isolated Fixed Base Offshore Platform 2013

Azam Khan Irshad Ahmad

Journal of Engineering and Applied Sciences, Volume 32, No 1

Impact Factor: 0

DOI: -

Investigation of rigid-plastic beams subjected to impact using linear complementarity 2013

David Lloyd Smith Bassam A Izzuddin Azam Khan

Engineering Structures, Volume 50, Pages 137-148, Special Issue SI

Impact Factor: 1.767 | **Quartile:** 1 | **Citations:** 13

DOI: 10.1016/j.engstruct.2012.12.005

Conference Proceedings

Seismic Performance of Traditional Brick-Mortar and Interlocking Compressed Earth Brick Walls under Cyclic Loading 2025

Junaid shah Khan Azam Khan Tatheer Zahra

15th Canadian Masonry Symposium in Ottawa, Canada, res.country(38,)

Citations: N/A

DOI: https://www.canadamasonrydesigncentre.com/research/seismic-performance-of-traditional-brick-mortar-and-interlocking-compressed-earth-brick-walls-under-cyclic-loading/

Spectral Fatigue Analysis of Offshore Jacket Structure 2021

Azam Khan Moiz Tariq Asad Ullah Junaid Shah Khan Sultani Mulk Khan

1st International Conference on Recent Advances in Civil and Earthquake Engineering, res.country(177,)

Citations: N/A

DOI: Nil

Finite Element Analysis of an Offshore Jacket Structure Cone Joint 2021

Azam Khan Moiz Tariq Asad Ullah Sultani Mulk Khan Hassan Sardar

1st International Conference on Recent Advances in Civil and Earthquake Engineering, res.country(177,)

Citations: N/A

DOI: Nil

Nonlinear modelling and analysis of elasto-plastic and rigid-plastic beams 2021

Azam Khan Asad Ullah Moiz Tariq Hassan Sardar Junaid Shah Khan

1st International Conference on Recent Advances in Civil and Earthquake Engineering, res.country(177,)

Citations: N/A

DOI: Nil

Temporary works forum guidance: Advice to the young engineer joining the temporary works sector 2021

Moiz Tariq Azam Khan Shahid Ali Asad Ullah Hassan Irfan

1st International Conference on Recent Advances in Civil and Earthquake Engineering, res.country(177,)

Citations: N/A

DOI: https://sites.google.com/uetpeshawar.edu.pk/iccee21/conference-proceedings

Rigid Plastic Beam Under Impact Loading 2012

Azam Khan David Lloyd Smith Bassam A Izzuddin

7th International Conference on Computational Mechanics for Spatial Structures, April 2-4, 2012, Sarajevo, res.country(17,)

Citations: N/A

DOI: Nil

Rigid Plastic Beam Under Impulsive Loading 2009

Azam Khan David Lloyd Smith Bassam A Izzuddin

Twelfth International Conference on Civil, Structural and Environmental Engineering Computing, res.country(183,)

Citations: N/A

DOI: Nil

Book Chapters

A Predictive RegressionModel for the Shear Strength of RC Knee Joint Subjected to Cyclic Load 2023

Azam Khan Moiz Tariq

In: *Book on Artificial Intelligence and Machine Learning Techniques for Civil Engineering*, Chapter 5, Page 106-137

Citations: N/A

DOI: 10.4018/978-1-6684-5643-9.ch005

Editorial Activities

Structures 2024

Reviewed Papers for Journals

Impact Factor: 3.9