

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 160, 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: 2	
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: 3 DOI: https://doi.org/10.1155/2022/7156691	
Damage assessment of reinforced concrete beams using cost-effective MEMS accelerometers <i>Sultani Mulk Khan Muhammad Usman Hanif Azam Khan Muhammad Usman Hassan Ahad Javanmardi Atif Ahmad Structures</i> , Volume 41, Pages 602-618 Impact Factor: 2.983 Quartile: 2 Citations: 16 DOI: https://doi.org/10.1016/j.istruc.2022.04.101	2022
Gene Expression Programming for Estimating Shear Strength of RC Squat Wall <i>Moiz Tariq Azam Khan Asad Ullah Bakht Zamin Kazem Reza Kashyzadeh Mahmood Ahmad Buildings</i> , Volume 12 Issue 7 Impact Factor: 3.3 Quartile: 2 Citations: 11 DOI: doi.org/10.3390/buildings12070918	2022
Flexure and Shear Response of an impulsively loaded rigid-plastic beam by enhanced linear complementarity approach <i>Azam Khan Moiz Tariq Asad Ullah Niaz Bahadur Khan Mohammed Jameel Scientific Reports</i> , Volume 12, Article Number 9893 Impact Factor: 4.379 Quartile: 1 Citations: 2 DOI: 10.1038/s41598-022-14082-4	2022
Improved Shear Strength Prediction Model of Steel Fiber Reinforced Concrete Beams by Adopting Gene Expression Programming <i>Moiz Tariq Azam Khan Asad Ullah Javad Shayanfar Momina Niaz Materials</i> , Volume 15(11), Article Number 3758 Impact Factor: 3.623 Quartile: 1 Citations: 19 DOI: https://doi.org/10.3390/ma15113758	2022
Experimental study of scour around bridge pile using efficient cross-section <i>Moiz Tariq Azam Khan Mujahid Khan Applied Sciences</i> , Volume 12(10), Article Number 5205 Impact Factor: 2.9 Quartile: 2 Citations: 6 DOI: https://doi.org/10.3390/app12105205	2022
Numerical investigation of the effect of spanwise length and mesh density on flow around cylinder at Re = 3900 using LES model <i>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</i> , Volume 17(4), Article Number e0266065 Impact Factor: 3.240 Quartile: 2 Citations: 6 DOI: 10.1371/journal.pone.0266065	2022
Mechanical properties, drying shrinkage and structural performance of coconut shell lightweight concrete <i>Waqas Aziz Muhammad Aslam Muhammad Fahad Ejaz M. Jahanzaib Ali Riaz Ahmad M. Wajeesh ul Hassan Raza Azam Khan Structures</i> , Volume 35, Pages 26-35 Impact Factor: 2.983 Quartile: 2 Citations: 21 DOI: https://doi.org/10.1016/j.istruc.2021.10.092	2022
A modified Lemke Algorithm for dynamic rigid plastic response of skeletal structures <i>Azam Khan Niaz Bahadur Khan Irshad Ahmad Wajid Khan Muhammad Aslam Computers & Structures</i> , Volume 256, Article Number 106638 Impact Factor: 4.578 Quartile: 1 Citations: 6 DOI: https://doi.org/10.1016/j.compstruc.2021.106638	2021
A regression model for predicting the shear strength of RC knee joint subjected to opening and closing moment <i>Azam Khan Muhammad Usman Hanif Moiz Tariq Javad Shayanfar Asad Ullah Journal of Building Engineering</i> , Volume 41, Article Number 102727 Impact Factor: 5.318 Quartile: 1 Citations: 12 DOI: doi.org/10.1016/j.jobbe.2021.102727	2021
Performance evaluation of bacterial self-healing rigid pavement by incorporating recycled brick aggregate <i>Babar Saleem Arshad Hussain Afaq Khattak Azam Khan</i>	2021

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](https://doi.org/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 Junaaid 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 Junaaid 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