

Junaid Ahmad

Assistant Professor

NUST Institute of Civil Engineering

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About

Dr. Junaid Ahmad is working as Assistant Professor in the NUST Institute of Civil Engineering. Dr. Junaid Ahmad has a PhD in Structural Engineering. Dr. Junaid Ahmad has published 20 research articles & conference papers having a citation count of 292, carried out 6 projects and filed 0 intellectual property.

Qualifications

PhD in Structural Engineering University of Wollongong , Australia	2017 - 2021
MS in Structural Engineering UET Taxila , Pakistan	2012 - 2015
BS in Civil Engineering UET Taxila , Pakistan	2006 - 2010

Experience

Assistant Professor NUST Institute of Civil Engineering	2025- Present
Assistant Professor NUST Institute of Civil Engineering	2021 - 2021
Assistant Professor NUST Institute of Civil Engineering	2021 - 2021
Lecturer NUST Institute of Civil Engineering	2017 - 2021
Lecturer (Do Not Use-Duplicate)NUST Institute of Civil Engineering	2015 - 2017
Casual Academic University of Wollongong , NSW, Australia	2018 - 2021
Junior Engineer (Civil) Water and Power Development Authority Pakistan (WAPDA) , Tarbela	2011 - 2015
Junior Engineer NESPAK , NESPAK Lahore	2011 - 2011
Planning Engineer M/S Choudhry Construction Company , Rawalpindi	2010 - 2011

Awards

Commendation Award Commendation Award on outstanding PhD Thesis from University of Wollongong, Australia.	2021
Certificate of Merit Merit Certificate was awarded by the University of Engineering and Technology Taxila, Pakistan to top 5% students of the undergraduate passing out batch.	2011

Professional Memberships

PEC	Since 2010
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Industry Projects

National Projects

Non-destructive Testing of R.C.C Structures at Bhara Kaho Fly-Over Islamabad - ECSP Client: M/S Engineering Consultancy Services Punjab Amount: PKR 156,000.00 Status: Completed	2024
Provision of Consultancy Services for Non-Destructive testing (NDT) of Business District Building, DHA-5, Express Highway, Islamabad Client: M/S Comrades Planning & Design Amount: PKR 1,460,000.00 Status: Completed	2024
Provision of Consultancy services for the Ultrasonic Pulse Velocity Testing of a Transom at Bara Kahu Bypass Client: M/S Innovative Nanoengineering Consulting Engineers Amount: PKR 90,000.00 Status: Completed	2023
Provision of Consultancy Services for Core Testing of the Project “ESTABLISHMENT OF CANCER HOSPITAL, PIMS, ISLAMABAD” Client: Pak PWD Amount: PKR 205,000.00 Status: Completed	2024
Non-Destructive testing of Drains at PN Farms Islamabad Client: PN Farms Scheme Islamabad Amount: PKR 80,000.00 Status: Completed	2023
Provision of Consultancy Services for Feasibility Study and Rehabilitation Design of Bhakkar-DI Khan Bridge Client: Khyber Pakhtunkhwa Highway division Amount: PKR 2,535,000.00 Status: Completed	2023

International Projects

Research Articles

Sustainable multifunctional biochar-based cementitious composites for carbon sequestration, energy storage, and smart infrastructure applications: A review <i>Hilal Khan Zamil Bin Zahid Fazal Hussain Junaid Ahmad Rao Arsalan Khushnood</i> <i>Case Studies in Construction Materials</i> , Volume:23, Article Number e05117 Impact Factor: 6.600 Quartile: 1 DOI: https://doi.org/10.1016/j.cscm.2025.e05117	2025
Development of extrusion based artificial lightweight aggregates from sand-plastic waste composite for sustainable concrete production: Performance evaluation and Life Cycle Assessment <i>Hilal Khan Junaid Ahmad Zamil Bin Zahid Shoaib Irfan Muhammad Umer</i> <i>Case Studies in Construction Materials</i> , Volume 22, Article Number e04663 Impact Factor: 6.500 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1016/j.cscm.2025.e04663	2025
Mechanical performance and life cycle assessment of alkali-activated concrete with municipal-waste incinerated bottom ash as partial precursor <i>Muhammad Muneeb Nawaz Hammad Anis Khan Junaid Ahmad Muhammad Noman</i> <i>Multiscale and Multidisciplinary Modeling, Experiments and Design</i> , Volume 8, Article Number 279 Impact Factor: 1.900 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1007/s41939-025-00865-5	2025
Effect of web holes on web crippling capacity of rectangular hollow steel sections under two flange loadings <i>Muhammad Amir Taimur Junaid Ahmad Sarmad Shakeel Muhammad Usman</i> <i>Journal of Constructional Steel Research</i> , Volume 222, Article Number 108985	2024

Impact Factor: 4.000 Quartile: 1 DOI: https://doi.org/10.1016/j.jcsr.2024.108985	
Innovative valorization of biomass waste-derived sodium silicate for geopolymer concrete synthesis: Sustainability assessment and circular economy potential <i>Muhammad Umer Junaid Ahmad Hina Mukhtar</i> <i>Journal of Cleaner Production</i> , Volume 452, Article Number 142181 Impact Factor: 11.100 Quartile: 1 Citations: 16 DOI: https://doi.org/10.1016/j.jclepro.2024.142181	2024
High strength rubberized porous concrete for sustainable pavements: Engineering properties and life cycle assessment <i>Musa Ajmal Khan Junaid Ahmad Hammad Anis Khan Muhammad Umer</i> <i>Journal of Cleaner Production</i> , Volume:451, Article Number: 142012 Impact Factor: 11.1 Quartile: 1 Citations: 3 DOI: 10.1016/j.jclepro.2024.142012	2024
Optimisation of an alkali activator solution to enhance the performance of roller-compacted concrete for pavements (RCCP) <i>Muhammad Jamman Shahid Hammad Anis Khan Musaad Zaheer Nazir Khan Junaid Ahmad Muhammad Abdullah</i> <i>International Journal of Pavement Engineering</i> , Volume 25, Issue 1, Article Number 2318609 Impact Factor: 3.8 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1080/10298436.2024.2318609	2024
Neural network-based models versus empirical models for the prediction of axial load-carrying capacities of FRP-reinforced circular concrete columns <i>Shehroze Ali Junaid Ahmad Umair Iqbal Suliman Khan Muhammad N.S. Hadi</i> <i>Structural Concrete</i> , Vol: 2023, Pages: 17 Impact Factor: 3.2 Quartile: 2 Citations: 9 DOI: 10.1002/suco.202300420	2023
Mechanical properties and life cycle assessment of sugarcane bagasse and corn cob ashes-based geopolymer concrete to promote circular economy <i>Muhammad Umer Junaid Ahmad Muhammad Saleem Abdullah Hamas Ahmad Khan Shehroze Ali Muhammad Umair Younas</i> <i>Structural Concrete</i> , Volume:24, Issue:6, Pages:7482-7505 Impact Factor: 3.2 Quartile: 2 Citations: 14 DOI: https://doi.org/10.1002/suco.202300119	2023
Predictive modelling of sustainable lightweight foamed concrete using machine learning novel approach <i>Junaid Ahmad Haji Sami Ullah Rao Arsalan Khushnood Furqan Farooq</i> <i>Journal of Building Engineering</i> , Volume 56, Article Number 104746 Impact Factor: 7.144 Quartile: 1 Citations: 62 DOI: https://doi.org/10.1016/j.jobbe.2022.104746	2022
Prediction of Compressive Strength of Sustainable Foam Concrete Using Individual and Ensemble Machine Learning Approaches <i>Haji Sami Ullah Rao Arsalan Khushnood Furqan Farooq Junaid Ahmad Nikolai Ivanovich Vatin Dina Yehia Zakaria Ewais</i> <i>Materials</i> , Volume 15, Issue 9, Article Number 3166 Impact Factor: 3.748 Quartile: 1 Citations: 66 DOI: https://doi.org/10.3390/ma15093166	2022
Analytical load-moment (P-M) interaction diagrams of GFRP bar reinforced circular geopolymer concrete columns <i>Shehroze Ali Junaid Ahmad M. Neaz Sheikh Tao Yu Muhammad N.S. Hadi</i> <i>Structures</i> , Volume 34, Pages 2445-2454 Impact Factor: 2.983 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1016/j.istruc.2021.08.131	2021
Analytical investigation on the load-moment interaction behavior of the FRP reinforced geopolymer concrete filled FRP tube circular columns <i>Junaid Ahmad Shehroze Ali Tao Yu M. Neaz Sheikh Muhammad N.S. Hadi</i> <i>Journal of Building Engineering</i> , Volume 42, Article Number 102818 Impact Factor: 7.144 Quartile: 1 Citations: 26 DOI: https://doi.org/10.1016/j.jobbe.2021.102818	2021

Behavior of GFRP bar reinforced geopolymer concrete filled GFRP tube columns under different loading conditions <i>Junaid Ahmad Tao Yu Muhammad N.S. Hadi</i> <i>Structures</i> , Volume 33, Pages 1633-1644 Impact Factor: 4.010 Quartile: 2 Citations: 25 DOI: https://doi.org/10.1016/j.istruc.2021.05.023	2021
Investigation of BFRP bar reinforced geopolymer concrete filled BFRP tube columns <i>Muhammad N.S. Hadi Junaid Ahmad Tao Yu</i> <i>Proceedings of the Institution of Civil Engineers - Structures and Buildings</i> , Pages 1-16 Impact Factor: 1.533 Quartile: 4 Citations: 19 DOI: https://doi.org/10.1680/jstbu.19.00227	2021
Basalt Fiber-Reinforced Polymer-Confined Geopolymer Concrete <i>Junaid Ahmad Tao Yu Muhammad N.S. Hadi</i> <i>ACI Structural Journal</i> , Volume 118(1), Pages 289-300 Impact Factor: 1.799 Quartile: 3 Citations: 17 DOI: 10.14359/51728094	2021
Effect of 3D models on seismic vulnerability assessment of deficient RC frame structures <i>Arslan Mushtaq Shaukat Ali Khan Junaid Ahmad M. Usman Ali</i> <i>Australian Journal of Structural Engineering</i> , NULL Impact Factor: 0 Citations: 6 DOI: 10.1080/13287982.2018.1480910	2018
Seismic vulnerability assessment of strengthened Glass Fiber Reinforced Concrete (GFRC) <i>Liaqat Ali Qureshi Junaid Ahmad Hammad Salahuddin</i> <i>KSCE Journal of Civil Engineering</i> , Volume: 21 Issue: 6 Pages: 2235-2244 Impact Factor: 0.94 Quartile: 3 Citations: 11 DOI: 10.1007/s12205-016-0819-4	2017

Editorial Activities

Construction and Building Materials Reviewed Papers for Journals Impact Factor: 7.4	2025
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Structures Reviewed Papers for Journals Impact Factor: 3.9	2025
Journal of Cleaner Production Reviewed Papers for Journals Impact Factor: 11.1	2024
Journal of Building Engineering Reviewed Papers for Journals Impact Factor: 6.4	2023
Archives of Civil and Mechanical Engineering Reviewed Papers for Journals Impact Factor: 4.042	2023
Structures Reviewed Papers for Journals Impact Factor: 4.010	2023
KSCE Journal of Civil Engineering Reviewed Papers for Journals Impact Factor: 2.115	2023
Structures Reviewed Papers for Journals Impact Factor: 4.010	2022
KSCE Journal of Civil Engineering Reviewed Papers for Journals Impact Factor: 2.115	2022
 Reviewed Papers for Journals Impact Factor: 2.115	2022
 Reviewed Papers for Journals Impact Factor: 2.115	2022
 Reviewed Papers for Journals Impact Factor: 1.744	2021