Junaid Ahmad

Assistant Professor

NUST Institute of Civil Engineering

Email: junaid.ahmad@nice.nust.edu.pk

Contact: 0512607309

LinkedIn:



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 285, carried out 6 projects and filed 0 intellectual property.

Qualifications

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

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	2021

Commendation Award on outstanding PhD Thesis from University of Wollongong, Australia.

2011 **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.

Professional Memberships

Since 2010 PEC

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-Dl Khan Bridge Client: Khyber Pakhtunkhwa Highway division Amount: PKR 2,535,000.00 Status: Completed International Projects	2023
Research Articles	
Sustainable multifunctional biochar-based cementitious composites for carbon sequestration, energy storage, and smart infrastructure applications: A review Hilal Khan Zamil Bin Zahid Fazal Hussain Junaid Ahmad Rao Arsalan Khushnood Case Studies in Construction Materials, 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 Hilal Khan Junaid Ahmad Zamil Bin Zahid Shoaib Irfan Muhammad Umer Case Studies in Construction Materials, 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 Muhammad Muneeb Nawaz Hammad Anis Khan Junaid Ahmad Muhammad Noman Multiscale and Multidisciplinary Modeling, Experiments and Design, 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 Muhammad Amir Taimur Junaid Ahmad Sarmad Shakeel Muhammad Usman	2024

Journal of Constructional Steel Research, Volume 222, Article Number 108985

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	2024
Muhammad Umer Junaid Ahmad Hina Mukhtar	
Journal of Cleaner Production, Volume 452, Article Number 142181	
Impact Factor: 11.100 Quartile: 1 Citations: 16	
DOI: https://doi.org/10.1016/j.jclepro.2024.142181	
High strength rubberized porous concrete for sustainable pavements: Engineering properties and life	2024
cycle assessment	
Musa Ajmal Khan Junaid Ahmad Hammad Anis Khan Muhammad Umer	
Journal of Cleaner Production, Volume:451, Article Number: 142012	
Impact Factor: 11.1 Quartile: 1 Citations: 3 DOI: 10.1016/j.jclepro.2024.142012	
Optimisation of an alkali activator solution to enhance the performance of roller-compacted concrete for pavements (RCCP)	2024
Muhammad Jamman Shahid Hammad Anis Khan Musaad Zaheer Nazir Khan Junaid Ahmad Muhammad Abdullah	
International Journal of Pavement Engineering, Volume 25, Issue 1, Article Number 2318609	
Impact Factor: 3.8 Quartile: 2 Citations: 2	
DOI: https://doi.org/10.1080/10298436.2024.2318609	
Neural network-based models versus empirical models for the prediction of axial load-carrying	2023
capacities of FRP-reinforced circular concrete columns	
Shehroze Ali Junaid Ahmad Umair Iqbal Suliman Khan Muhammad N.S. Hadi	
Structural Concrete, Vol. 2023, Pages: 17	
Impact Factor: 3.2 Quartile: 2 Citations: 9 DOI: 10.1002/suco.202300420	
Mechanical properties and life cycle assessment of sugarcane bagasse and corn cob ashes-based	2023
geopolymer concrete to promote circular economy	
Muhammad Umer Junaid Ahmad Muhammad Saleem Abdullah Hamas Ahmad Khan Shehroze Ali Muhammad Umair Younas	
Structural Concrete, Volume:24, Issue:6, Pages:7482-7505	
Impact Factor: 3.2 Quartile: 2 Citations: 14 DOI: https://doi.org/10.1002/suco.202300119	
Predictive modelling of sustainable lightweight foamed concrete using machine learning novel approach	2022
Junaid Ahmad Haji Sami Ullah Rao Arsalan Khushnood Furqan Farooq	
Journal of Building Engineering, Volume 56, Article Number 104746	
Impact Factor: 7.144 Quartile: 1 Citations: 61 DOI: https://doi.org/10.1016/j.jobe.2022.104746	
Prediction of Compressive Strength of Sustainable Foam Concrete Using Individual and Ensemble	2022
Machine Learning Approaches	
Haji Sami Ullah Rao Arsalan Khushnood Furqan Farooq Junaid Ahmad Nikolai Ivanovich Vatin Dina Yehia Zakaria Ewais	
Materials , Volume 15, Issue 9, Article Number 3166	
Impact Factor: 3.748 Quartile: 1 Citations: 60	
DOI: https://doi.org/10.3390/ma15093166	
Analytical load-moment (P-M) interaction diagrams of GFRP bar reinforced circular geopolymer concrete columns	2021
Shehroze Ali Junaid Ahmad M. Neaz Sheikh Tao Yu Muhammad N.S. Hadi	
Structures , Volume 34, Pages 2445-2454	
Impact Factor: 2.983 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1016/j.istruc.2021.08.131	
Analytical investigation on the load-moment interaction behavior of the FRP reinforced geopolymer	2021
concrete filled FRP tube circular columns	
Junaid Ahmad Shehroze Ali Tao Yu M. Neaz Sheikh Muhammad N.S. Hadi	
Journal of Building Engineering, Volume 42, Article Number 102818	
Impact Factor: 7.144 Quartile: 1 Citations: 26 DOI: https://doi.org/10.1016/j.jobe.2021.102818	

Impact Factor: 4.000 | Quartile: 1

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

Editorial Activities

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