

Aleem Ullah

aleemullah@alumni.kaist.ac.kr · <https://aleemulla.github.io/>

Education

Korea Advanced Institute of Science and Technology, South Korea	2013-2016
M.S. in Structural Engineering	
Advisor: Jung-Wuk Hong	
National University of Science and Technology, Pakistan	2008-2012
B.E. in Civil Engineering	
Advisor: Col. Mansoor Azam Qureshi	

Professional Experience

Field

Design Coordinator – QD-SBG Construction (Doha, Qatar)	2022 -
Structural Engineer – Redco International (Doha, Qatar)	2016 - 2021
Jr. Structural Engineer – EGC SMEC International (Lahore, Pakistan)	Apr–Oct 2016
Jr. Engineer - National Logistic Cell (Islamabad, Pakistan)	2012 – 2013

Research

Graduate Research Assistant – AAML KAIST (Daejeon, South Korea)	2013-2016
---	-----------

Publications [[Google Scholar](#)]

Journal Articles

Aleem Ullah, Furqan Ahmad, and Jung- Wuk Hong, “Review of analytical and empirical estimations for incident blast pressure,” Journal of Korea Society of Civil Engineers, 2016.

MS Thesis

Aleem Ullah, Collapse Analysis of Reinforced Concrete Beam-Column Structures, 2016.

Conference Presentations

Aleem Ullah, and Jung Wuk Hong, Review of Analytical and Empirical Estimations of Blast Effect. International Conference on Computational and Experimental Engineering and Sciences, Changwon, South Korea, 2014.

Aleem Ullah, and Jung Wuk Hong, Validation of LS- DYNA LBE with Analytical and Empirical Estimations of Incident Blast Pressure, The Twenty- seventh KKHTCNN Symposium on Civil Engineering, Shanghai, China, 2014.

Aleem Ullah, Jung Jaewook, and Jung- Wuk Hong, RC Beam- Column joint models for progressive collapse simulation, KIBSE Annual Meeting and Conference, Goyang, South Korea, 2014.

Dias Bakhtiyarov, **Aleem Ullah**, Jaewook Jung, and Jung Wuk Hong, Collapse Analysis of Reinforced Concrete Beam- Column Structure, COSEIK Annual Conference, Daejeon, South Korea, 2016.

Projects

Machine Learning

Crack Segmentation using BRAILS (an open-source Machine Learning framework built by UC Berkeley)

Training a Building Damage Classifier using BRAILS

FEM [[Youtube Channel](#)]

LBE – Load Application on steel plate using LS DYNA

Blast pressure simulation through air using LS DYNA

Blast load application on Masonry Wall using LS DYNA
 Hammer Impact on RC Slab using LS DYNA

Skills

FEM: LS DYNA, LS Prepost
Programming: Matlab, Python, Gnuplot
CAD: AutoCAD, Revit, Navisworks, Rhino/ Grasshopper
Analysis & Design: CSI SAP2000, CSI Etabs, CSI SAFE
Member Design: CSI Col, Limcon, Tekla Tedds, Prokon, Concise Beam
Microsoft: Word, Excel, PowerPoint, Outlook
Reference: EndNote, Mendeley

Invited Presentations

Intro to CSI SAP2000, ETABS, & SAFE for Structural Analysis & Design – Civil Eng. UOL	Oct. 2020
Collapse Analysis of Reinforced Concrete Beam-Column Structures – Civil Eng. NUST	Feb. 2016
Gnuplot – a graph plotting tool workshop – Civil Eng. KAIST	Oct. 2014

Teaching

Teaching Assistant

KAIST CE419 – Experimental Vibration Engineering	Fall 2013
NUST CE-420 – Computer Aided Civil Engineering Design	Fall 2011
NUST CE-114 – Civil Engineering Drawing/AutoCAD	Fall 2009

Class Representative

NUST – helped instructors with class management	2011-2012
---	-----------

Mentoring

Supervised thesis project of an exchange UG student from Tongji University, China	Spring 2015
Dias Bakhtiyarov (graduate student)	2015
Raheel Ahmed (graduate student)	Fall 2014

Workshops

The Democratisation of Cat Models by UNESCO Chair in Disaster Risk Reduction and Resilience Engineering (DRR&RE).	Oct. 2022
Engineering based Fragility and Vulnerability Assessment by UNESCO Chair & UCL EpiCenter.	Sep. 2022
Machine Learning Training for Natural Hazards Engineering by NHERI & DesignSafe SimCenter.	Sep. 2022

Volunteer Experience

Sustainability Volunteer at FIFA Arab Cup 2021, Qatar.
 Involved in Fund Raising Campaign for Flood Victims in Pakistan in 2010 through NUST Community Service Club (NCSC).
 Involved in organizing committee of the Sports Gala 2012 for Orphan Children living in SOS villages and government orphan houses across Pakistan, funded by Pakistan Finance Ministry.
 Held organizational responsibilities for International students KAIST International Students Association (KISA) and Pakistani Students Association (PSA).

Honors & Awards

KAIST Graduate Scholarship	2013-2016
NUST Performance Scholarship	2008-2012
B.E. Graduation with Honors, ranked 4 th /180 Students	2012
Ranked among top 2% of the candidates who appeared for country wide Kangaroo Math contest	2007
Runner up in a Bridge Building Competition arranged by NUST Science Society	2010
Ranked 1 st in Secondary School Board Examination across division	2006
Ranked 4 th in Eighth Grade Board Examination in whole District	2004

Professional Memberships

MMUP Qatar	2018 -
Pakistan Engineering Council (PEC)	2012 -

References

Muhammad Usman NUST, Pakistan m.usman@nice.nust.edu.pk	Jung, Hyung-Jo KAIST, South Korea hjung@kaist.ac.kr
Abdul Qadir Bhatti Islamic University of Madinah, Saudi Arabia draqbhatti@iu.edu.sa	