

## PERSONAL INFORMATION



## CAREER OBJECTIVE

To become a productive participant of a scientific team in a reputed organization that affords an atmosphere of personal grooming and development. To pursue a position where I can prove myself as an enthusiastic contributor.

## EDUCATION AND TRAINING

Ph.D. Structural Engineering: (2023)	Ph.D. Structure Engineering, "Seismic vulnerability of RC infilled RC frame structures" at Architecture Department University of Roma Tre, Italy
Master Degree From 2011 to 2012 (Date of attainment 15 August 2014)	Master in Evaluation Control and Reduction of Environmental Seismic Risk (MECRES) Sapienza University of Rome, Italy Grade 110/110
Master Degree Thesis	Study of earthquake performance of a non-ductile infilled RC frame structure
Major Subjects/Area	Specialization in Modelling of Masonry infilled RC frame structures, Designing & Assessment of masonry structures, Structural Health Monitoring (SHM)
Bachelor in Civil Engineering (04) Years, From January 2006 to December 2009	Bachelor in Civil Engineering (04) years NED University of Engineering & Technology, Karachi, Pakistan. With First Division
Bachelor Degree Thesis	"Study on Pile Foundation in Reclaimed Land." The very first project in Pakistan over Reclaimed land, detailed study, analysis, and design of Pile Foundation in Reclaimed Land, at Crescent Bay Karachi
Major Subjects/Area	Masonry infilled RC frame structures, Geotechnical engineering, Structural health monitoring, Architecture innovation, and heritage, Heritage management, Structure engineering, Earthquake engineering
Certificates of attendance at Postgraduate courses	Seismic vulnerability of infilled RC frame structures, Structural health monitoring, New & old masonry construction, Assessment & strengthening of RC structures, Nonlinear structural analysis
Higher Secondary School (2003 - 2005)	Higher Secondary School Certificate, Pre-Engineering (02 years) Govt. Science College Gulshan-e-Iqbal, Karachi, Pakistan with First Division
Secondary School (2001 - 2003)	Secondary School Certificate (10 years in total school education) Matriculation in Science Subjects RMS Secondary School, Karachi, Pakistan with First Division

## Research Articles Published

1. **Khan, Nisar Ali**, Angelo Aloisio, Giorgio Monti, Camillo Nuti, and Bruno Briseghella. "Experimental characterization and empirical strength prediction of Pakistani brick masonry walls." *Journal of Building Engineering* (2023): 106451.
2. **KHAN, Nisar Ali, et al. (2023)** Experimental study of RC frames with window and door openings under cyclic loading. "2nd International Workshop on Energy-Based Seismic Engineering". <https://paginas.fe.up.pt/~ebse/>
3. **Khan, Nisar Ali**, Giorgio Monti, Camillo Nuti, and Marco Vailati. "Effects of Infills in the Seismic Performance of an RC Factory Building in Pakistan." *Buildings* 11, no. 7 (2022): 276.
4. **Khan, Nisar Ali**, Camillo Nuti, Giorgio Monti, and Mario Micheli. "Critical Review of Pakistani Current Legislation on Sustainable Protection of Cultural Heritage." *Sustainability* 14, no. 6 (2022): 3633.
5. **Khan, Nisar Ali**, Camillo Nuti, and Giorgio Monti. "Pakistan's Heritage management." *Scholarly Community Encyclopedia* (2022).
6. **Khan, Nisar Ali, (2021)** Alessandro Vittorio Bergami, Camillo Nuti, Giorgio Monti, Marco Vailati, and Bruno Briseghella. "Seismic Performance of Pakistani-Technique Infilled Reinforced Concrete Frames." *8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering. Vol. 1, 969-980.*
7. **KHAN, Nisar Ali, et al (2021)** Proposal for the use of possible technology for the survey of an archaeological complex a case study Gor Khatri, Paper Published in Proceeding of the International Congress on Cultural heritage and sustainable tourism, Rome Italy, 29 November 2021.
8. Khan, Irfan, Akhtar Gul, Khan Shahzada, **Nisar Ali Khan**, Faisal Ur Rehman, Qazi Samiullah, and Muhammad Arsalan Khattak. "Computational Seismic Analysis of Dry-Stack Block Masonry Wall." *Civil Engineering Journal* 7, no. 3 (2021): 488-501.
9. **KHAN, Nisar Ali, et al., (2019)**. Influence of brick masonry infill walls on seismic response of RC buildings, technical Journal, blind peer-reviewed open access academic journal, Vol. 24 No. 3-2019 ISSN:1813-1786 (Print) 2313-7770 (Online)
10. **KHAN, Nisar Ali, et al., (2019)**. State of the art and practice of masonry infilled RC frame structures subjected to inplane loading in Pakistan, *China, and Europe*, Paper Published in Proceeding of the First South Asia Conference on Earthquake Engineering (SACEE'19) 21-22 February 2019, Karachi, Pakistan
11. **KHAN, Nisar Ali, et al., (2019)**. A proposal for a new formulation of the Pakistan seismic design action, Paper Published in Proceeding of the First South Asia Conference on Earthquake Engineering (SACEE'19) 21-22 February 2019, Karachi, Pakistan
12. Malik Muneeb Abid, M Abubakar Tariq, Mamoon Riaz, **Nisar Ali Khan**, and Waqas Haroon., (2017). Overview of different types of road interchanges, Paper Published in Proceeding of the 2nd International Conference on Environmentally Sustainable Development August 26, 2017
13. **KHAN, Nisar Ali & Lodi. S.H., (2013)**. Effects of infill walls in Structural Response of RC Buildings, Paper Published in Proceeding of the 6th International Civil Engineering Congress Dec 28, 2013 (ICEC-2013)

## Research Articles under review

14. **KHAN, Nisar Ali, et al. (2023)** Hysteretic response of infilled reinforced concrete frames with an without openings: an experimental study. 2nd International Workshop on Energy-Based Seismic Engineering
15. **KHAN, Nisar Ali, et al. (2022)** Development of a framework for the prediction of rare low-level wind shear events in the vicinity of airports: A case study of Hong Kong International Airport. (Under review in an impact factor Journal)
16. **KHAN, Nisar Ali et al. (2022)** Response of RC Frames Strengthened by RC Infill Walls: Experimental Study. (Under review in an impact factor Journal)
17. **KHAN, Nisar Ali, et al. (2022)** Seismic retrofit of masonry infill walls using energy dissipative braces system. (Under review in an impact factor Journal)
18. **KHAN, Nisar Ali, et al. (2022)** Climate resilience of critical infrastructure via digital technology. (Under review in an impact factor Journal)

## WORK EXPERIENCE

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- July 2014 to till date **Assistant Professor** at Civil Engineering Department, IIU Islamabad, Pakistan  
 I was involved in the following activities at International Islamic University Islamabad;
- Teaching courses of civil engineering at the undergraduate level,
  - In charge of Undergraduate Program.
  - Promoting excellence in teaching, research, and service
- <http://www.iiu.edu.pk/>
- January 2013 to June 2014 **Assistant Professor** at Civil Engineering Department, Abasyn University, Peshawar, Pakistan  
 I was involved in the following activities at Abasyn University Peshawar;
- Teaching courses of civil engineering at the undergraduate level,
  - Acting head of the department
- <http://peshawar.abasyn.edu.pk/>
- May 2010 to December 2011 **Site Engineer** at Pakistan Environmental Planning & Architecture Consultant (PEPAC)  
 Working As a Site Engineer with PEPAC I was assigned to perform the following duties;
- Preparation of progress reports & Certification of interim payment applications.
  - Maintaining the execution of work according to given drawings and specifications.
  - Maintaining a high level of quality control construction on site.
  - Ensuring that the inspections and tests are carried out in conformity with the field quality control Plan and obtaining the relevant documentation.
  - <http://mocc.gov.pk/>
- December 2009 to April 2010 **Project Engineer** at Sohail & Company  
 Working as Project Engineer with Sohail & Co. I was assigned to perform the following duties;
- To check the layout of the buildings.
  - Maintaining the execution of work according to given drawings and specifications.
  - Maintaining a high level of quality control in all aspects of construction on site.
  - Ensuring that the inspections and tests are carried out in conformity with the field quality control Plan and obtaining the relevant documentation.

## PERSONAL SKILLS

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Mother tongue(s)

Pashto

Other language(s)

UNDERSTANDING

SPEAKING

WRITING

Listening

Reading

Spoken interaction

Spoken production

English

Excellent

Excellent

Excellent

Excellent

Excellent

Italian

Good

Good

Fair

Fair

Fair

Urdu

Excellent

Excellent

Excellent

Excellent

Excellent

Hindi

Excellent

Poor

Excellent

Excellent

Poor

### Technical/Computer skills and competences

Have in-depth theoretical and practical knowledge of various computer programs including.

- OpenSees (Research base designing software)
- SAP 2000, ETABS (Bridge's & Structure's Designing Software)
- Python
- MATLAB
- STKO
- MS Office (Word, Excel, PowerPoint)

### International Scholarship and competences

- Ph.D. Scholarship holder of Agenzia Italiana per la Cooperazione allo Sviluppo (AICS), 2019, Partnership for knowledge (Pfk), Project 4. "Seismic vulnerability of infilled RC frame structures".
- Research Scholarship holder, Poliba2China Project No. CUP D96D17000110002 "seismic performance of infilled RC frame structures", 2018
- EU NICE ACTION-2 Project, Scholarship Holder, 2012

### Social skills and competences

- Focal person of Islamabad for a non-profit organization who works for the student of Internal Displace Persons (IDPs) or Asylum Seekers to support them in education and other financial assistance.
- National & International Player of Kick Boxing Martial Arts-KUNG-FU
- National & International Player of Taekwondo

### Professional Conferences, Seminars, and Lectures

- Duo-IABSE webinar: "Bridge Collapses - Lessons Learnt" organized by "International Association for Bridge and Structural Engineering" Italy and USA, **November 10, 2021.**
- "1st International Conference on Recent Advances in Civil and Earthquake Engineering" was organized by the University of Engineering & Technology, Peshawar, Pakistan, on **October 8, 2021.**
- Short course naming "STKO+OpenSees tools for the Analysis of RC and Masonry Structures" **April 20 and 22, 2020.**
- Webinar on "Truss structures" **April 20, 2020.**
- Short Course on "Learning OpenSees: Modelling the out-of-plane failure of masonry structures" **May 4th, 2020.**
- Course about the "Nonlinear Analysis of an existing RC building including RC joint modeling" **June 1st, 2020.**
- Short course on "Infill-RC Frame Interaction with element removal" **July 1st, 2020.**
- "CINPAR 2020 - XVI International Conference on Structural Repair and Rehabilitation". **July 13 to 15, 2020.**
- Conference "Valutazione sperimentale per corretti interventi sulle strutture - edifici, ponti" **November 8, 2019.**
- Coherence/seminar "A view on Zaha Hadid Architects, past and recent works, searching for compromising different organizational logics" **Nov. 26, 2019.**
- workshop: "Asian-European Advances in Construction and Design" on **16 December 2019.**
- 4th International Short Course Seismic Analysis of Structure using OpenSees: Finite Element-based Framework and Civil Engineering Applications **March 27 to 29, 2019**
- Short Course on Non-Destructive Techniques of Concrete Construction for their Economic Repair and Rehabilitation **24th November 2015.**
- 2nd Abasyn International Conference on Technology and Business Management **March 26, 2014.**
- 6th International Civil Engineering Congress **Dec 26-28, 2013 (ICEC-2013).**

## REFERENCES

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1. **Prof. Camillo Nuti**  
Professor at Department of Architecture