Personal information

Name: Tahir Mehmood
Place of birth: Attock, Pakistan
Date of birth: 05/09/1984
Passport number: FQ0159433
E-mail: tahirmeh@gmail.com, drtahir.mehmood@ciitwah.edu.pk
Linedin Profile : https://www.linkedin.com/in/tahir-mehmood-97473135/
ResearchGate Profile: https://www.researchgate.net/profile/Tahir_Mehmood3

Education

09/08/2010 – 29/07/2015 **PhD in Civil Engineering**
Faculty of Structural Engineering, School of Engineering and Technology, Asian Institute of Technology, Bangkok, Thailand. Thesis Title: "Investigation of Nonlinear Seismic Response of High-rise RC Wall Structures Using Modal Decomposition Technique".
Supervisor: Prof. Pennung Warnitchai.

14/08/2008 – 26/05/2010 **Master Degree in Structural Engineering**
Faculty of Structural Engineering, School of Engineering and Technology, Asian Institute of Technology, Bangkok, Thailand. Thesis Title: "Ultimate drift at Gravity Load Collapse of Nonductile RC Columns".
Supervisor: Prof. Pennung Warnitchai.

13/01/2003 – 27/11/2006 **Bachelor's in civil engineering**
Department of Civil Engineering, University of Engineering and Technology (UET), Taxila, Pakistan. Project Title: "Design and Analysis of Central Library of UET Taxila".
Supervisor: Dr Faisal Shabir.

Experience

Administrative experience

11/08/2022 – Present **Head of Department**
COMSATS University Islamabad, Pakistan
Plan, organize and supervise the academic and administrative work of the department

Academic experience

01/07/2021 – Present **Associate Professor**
COMSATS University Islamabad, Pakistan
Teaching core courses of structural engineering at the graduate and undergraduate level

01/07/2015 – 030/06/2021 **Assistant Professor**
COMSATS University Islamabad, Pakistan
Teaching core courses of structural engineering at the graduate and undergraduate level
Curriculum development at the graduate level
Research activities in the field of structural dynamics and earthquake engineering

14/08/2008 – 29/06/2015 **Doctoral Fellow**
Asian Institute of Technology, Structural Engineering, Bangkok, Thailand

Structural engineering experience

13/05/2013 - 31/07/15 & 01/08/2015 - 31/10/15 **Project Engineer**
AIT-Solution, Bangkok, Thailand
Performance-based seismic evaluation of high-rise buildings
Vulnerability assessment of tall buildings
Seismic loss estimation
Seismic retrofitting of RC buildings

04/12/2006 – 27/06/2008 **Junior Design Engineer**
Design Inn, Islamabad, Pakistan
Design and analysis of reinforced concrete buildings

Professional Skills

Excellent computer skills in commercial design and analysis software including:
ETABS CSI, SAP2000 CSI, Perform3D CSI, OpenSees, VecTor2 and VecTor5, University of Toronto
Non-Linear time history analysis of mid- and high-rise RC structures
Excellent skills in Quasi-Static Lab testing of RC walls and columns

Completed Project

LangSuan Project: 40 Story high rise RC core wall building, Design and Analysis
BMA Project: Performance-based Seismic Risk Assessment of 200 RC Buildings in Bangkok city Working as Project Engineer
ASSI Safe Schools: Asian Development Bank (ADB) Project of safe school institutive for Earth quake-prone zones of NEPAL, for retrofitting Techniques of school buildings.
Pruksa Project: Performance-based seismic Risk Assessment of 37 stories Pre-cast RC Buildings in Bangkok city Working as Project Engineer

Fellowships and awards

09/08/2010 – 29/07/2015 **Higher Education Commission of Pakistan Scholarship for Master studies**
Faculty of Structural Engineering, School of Engineering and Technology, Asian Institute of Technology, Bangkok, Thailand
14/08/2008 – 26/05/2010 **Higher Education Commission of Pakistan Scholarship for PhD studies**
Faculty of Structural Engineering, School of Engineering and Technology, Asian Institute of Technology, Bangkok, Thailand
25/03/2020 – Awarded Seal of Excellence-Marie Skłodowska-Curie Actions MSCA-2019

Research Funding

24/03/2016-24/03/2017 **Start-up Research Grant: Higher Education Commission of Pakistan (€ 3000)**
PI: Tahir Mehmood; Co-PI: Dr Qazi Samiullah "Experimental and Analytical Assessment of RC Columns and Walls"

Supervision of Graduate students

1) Ali Siddique "Experimental and Analytical Seismic Assessment of RC Shear Wall in Islamabad" (2019), Department of Civil Engineering, COMSATS University Islamabad (CUI), Wah Campus, Pakistan
2) Umair Siddique "Elastic Displacement Based Cyclic Modal Pushover Analysis" (2021), Department of Civil Engineering, COMSATS University Islamabad (CUI), Wah Campus, Pakistan
3) Mughees A (2021) "Vulnerability Assessment of Existing Buildings against Progressive Collapse", Department of Civil Engineering, COMSATS University Islamabad (CUI), Wah Campus, Pakistan
4) M Amer (2022) " Strengthening and analyzing unreinforced clay bricks masonry with steel wire mesh.", Department of Civil Engineering, COMSATS University Islamabad (CUI), Wah Campus, Pakistan
5) Manan A (2022) " Vulnerability of existing RC Fram-building against progressive collapse.", Department of Civil Engineering, COMSATS University Islamabad (CUI), Wah Campus, Pakistan

Teaching activity

01/07/2015 – 30/06/2021 **Assistant Professor**
Courses taught at under-graduate level:
1) Properties of concrete
2) Reinforced concrete design-I
3) Reinforced concrete design-II
4) Steel structures

5) Elementary structural dynamics

01/07/2015 – 30/06/2021 **Assistant Professor**
Courses taught at graduate level:
1) Structural Dynamics
2) Earthquake Engineering

01/07/2021 – Present **Associate Professor**
Courses taught at graduate level:
1) Earthquake Engineering

01/07/2021 – Present **Associate Professor**
Courses taught at under-graduate level:
1) Steel Structures

Publications

Journal papers

No.	Title and Authors
1.	Sddique A; Mehmood T; Samiullah Q; Shehzad M; Nawaz a; Tufail R.F (2022) " Seismic performance evaluation of code compliant and non-compliant RC walls" *Australian Journal of Structural Engineering,* https://doi.org/10.1080/13287982.2022.2133721
2.	Rodsin K, **Mehmood T**, Kolozvari K, Nawaz A, Samiullah Q, Parichatprecha R (2022) "Experimental and Numerical Seismic Assessment of Non-ductile Reinforced Concrete (RC) Columns Strengthened with Glass Fiber Reinforced Polymer (GFRP)", *Bulletin of Earthquake Engineering* https://doi.org/10.1007/s10518-022-01479-9
3.	Qureshi M.I, Warnitchai P, **Mehmood T**, Khan S.U, Iqbal A (2022) "An improved capacity design procedure incorporating the effect of gap-opening on higher mode responses in rocking wall structures" *Bulletin of Earthquake Engineering* https://doi.org/10.1007/s10518-022-01351-w
4.	Rodsin K, Joyklad P, Hussain Q, Mohamad H, Buatik H, Zhou M, Chaiyasarn k, Nawaz A, **Mehmood T** and ELNEMR A (2021) "Behavior of Steel Clamp Confined Brick Aggregate Concrete Circular Columns Subjected to Axial Compression" *Case Studies in Construction Materials* https://doi.org/10.1016/j.cscm.2021.e00815
5.	Maqsoom A, Aslam B, Khalil U, Kazmi A.Z, Azam S, Mehmood T, Nawaz A (2021) "Landslide susceptibility mapping along the China Pakistan Economic Corridor (CPEC) route using multi-criteria decision-making method" *Model. Earth Syst. Environ.* https://doi.org/10.1007/s40808-021-01226-0
6.	Rodsin K, **Mehmood T**, Kolozvari K and N Adnan (2020) "Seismic assessment of non-engineered reinforced concrete columns in low to moderate seismic regions" *Bulletin of Earthquake Engineering,* doi.org/10.1007/s10518-020-00918-9
7.	Tufail R.F., Feng, X., Zahid, M. et al. (2020) "Statistical modeling of rubberized concrete beams confined by FRP using RSM technique" *Sādhanā 45, 113.* https://doi.org/10.1007/s12046-020-01349-7
8.	**Mehmood T**, Qureshi M.I, Najam F.A, Maqsoom A, N Adnan, ,Salahuddin H and Tufail R.F (2020) " New Nonlinear Modal Decomposition Method for Seismic Analysis of Tall RC Core Wall Buildings" *Iranian Journal of Science and Technology-Transactions of Civil Engineering*. https://doi.org/10.1007/s40996-020-00376-y
9.	**Mehmood T**, M Ahsen, N Adnan, Z Badar (2020) "Experimental and Numerical Seismic Evaluation of RC Walls Under Axial Compression" *Periodica Polytechnica Civil Engineering,* https://doi.org/10.3311/PPci.14333
10.	Zain M, Usman M, Farooq S H, **Mehmood T** (2019) "Seismic Vulnerability Assessment of School Buildings in Seismic Zone 4 of Pakistan" *Advances in Civil Engineering,* doi.org/10.1155/2019/5808256

11.	**Mehmood T**, Rodsin K, Warnitchai P, and Kolozvari K (2019) "Investigating the vulnerability of nonductile reinforced concrete columns in moderate seismic regions to gravity load collapse" *The Structural Design of Tall and Special Buildings,* 28(**4**) doi.org/10.1002/tal.1578
12.	Salahuddin H, Nawaz A , Maqsoom A, **Mehmood T**, and Zeeshan B.A (2019) "Effects of elevated temperature on performance of recycled coarse aggregate concrete" *Construction and Building Materials* 202, 415–425. doi.org/10.1016/j.conbuildmat.2019.01.011
13.	Maqsoom A , Choudhry R.M, Umer M and **Mehmood T** (2019) "Influencing factors indicating time delay in construction projects: impact of firm size and experience" *International Journal of Construction Management* doi.org/10.1080/15623599.2019.1613206
14.	Najam F.A, Warnitchai P, Qureshi M.I, and **Mehmood T** (2019) "Simplified seismic demand estimation for existing tall buildings in Thailand" *Proceedings of Institute of Civil Engineering-Structures and Buildings* 172 (**6**) 391-406 doi.org/10.1680/jstbu.16.00088
15.	Najam F.A, Qureshi M.I, Warnitchai P, and **Mehmood T** (2018) "Prediction of nonlinear seismic demands of high-rise rocking wall structures using a simplified modal pushover analysis procedure" *The Structural Design of Tall and Special Buildings,* 27(**15**) doi.org/10.1002/tal.1506
16.	Ahmed M, and **Mehmood T** (2018) "Elastic-displacement-based multi modal pushover analysis in high- rise core wall buildings" *Proceedings of Institute of Civil Engineering-Structures and Buildings* 171(**10**) doi.org/10.1680/jstbu.17.00014
17.	**Mehmood T**, Warnitchai P and Suwansaya P (2018) "Seismic evaluation of tall buildings using a simplified but accurate analysis procedure" *Journal of Earthquake Engineering.* 22(**3**) 356-381 doi.org/10.1080/13632469.2016.1224742
18.	**Mehmood T**, Warnitchai P, Ahmed M, and Qureshi M.I, (2016) "Alternative approach to compute shear amplification in high-rise reinforced concrete core wall buildings using uncoupled modal response history analysis procedure" *The Structural Design of Tall and Special Buildings,* 26(**4**) doi.org/10.1002/tal.1314
19.	**Mehmood T,** Hussain K, and Warnitchai P (2015) "Seismic evaluation of flexure–shear dominated RC walls in moderate seismic regions" *Magazine of Concrete Research*, 67(**18**) 1003-1016 doi: 10.1680/macr.14.00344
20.	Saleem S, Pimanmas A, and **Mehmood T** (2015) "Finite element modeling of non-ductile reinforced concrete columns" *Research and Development Journal*, 26(**1**), 23-34

Conference papers

No.	Title and Authors
1.	Rodsin K, Warnitchai P, and **Mehmood T** (2010) "Ultimate drift at gravity load collapse of RC non-ductile column*", The 5th Civil Engineering Conference in the Asian Region and Australasian Structural Engineering Conference 2010*, Sydney, Australia
2.	Rodsin K, **Mehmood T**, and Warnitchai P (2010) "Seismic performance assessment of existing Non- ductile reinforced concrete columns" *ACEE Bangkok*
3.	**Mehmood T**, Rodsin K, and Warnitchai P (2011) "Ultimate drift at gravity load collapse of Lap-Spliced non-ductile column" *The International Conference on Earthquake Engineering and Seismology (ICEES)*
4.	**Mehmood T**, and Warnitchai P (2012) "Impact of Coupled Axial-flexure-shear Modeling on Seismic demand of High rise Walls*" 15th World Conference on Earth Quake Engineering (15th WCEE),* Lisbon, Portugal.
5.	**Mehmood T**, Warnitchai P, and Suwansaya P (2014) "A Simplified But Accurate Analysis Procedure for Seismic Evaluation of Tall Buildings"*The 5th Asia Conference on Earthquake Engineering,*Taipei, Taiwan

6.	Qureshi M.I, Warnitchai P, and **Mehmood T** (2015)" Investigation of Dynamics Response of Rocking Wall Structures Using Inelastic Modal Decomposition Technique" *COMPDYN 2015, 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering* *M. Papadrakakis, V. Papadopoulos, V. Plevris (eds.)* Crete Island, Greece
7.	Warnitchai P, **Mehmood T**, and Phichaya S (2016)" Seismic performance evaluation of tall buildings by a modal decomposition approach" *EASEC-14, Ho Chi Minh City, Vietnam, At Ho Chi Minh City, Vietnam*
8.	Ahmed Z, Anwar N, Najam F.A and **Mehmood T** (2017)"A Simplified Methodology for Seismic Fragility Assessment of Reinforced Concrete High-rise Buildings" *International Conference on Earthquake Engineering and Structural dynamics,* Reykjavik, Iceland
9.	Najam F.A, Warnitchai P, Qureshi M.I and **Mehmood T** (2018) "A simplified Modal Pushover Analysis Procedure Based on Displacement Modification Approach" *7th Asia Conference on Earthquake Engineering, Seismic Resilience For Safer Cities and Infrastructures,* Bangkok. Thailand
10.	Siddique A, **Mehmood T**, Qazi S and Nawaz A (2018) "Seismic Evaluation of high-rise RC buildings in Pakistan" *7th Asia Conference on Earthquake Engineering, Seismic Resilience for Safer Cities and Infrastructures,* Bangkok. Thailand

Invited lectures

18/09/2018 **Non-linear dynamic Behaviour and Response of Building Structures**
The International Seminar on Seismic Performance and Health Assessment of Structures at the National University of Science and Technology (NUST), Institute of Civil Engineering (NICE), Islamabad, Pakistan.

Reviewer in JCR-indexed journals

Journal of Earthquake Engineering (Tylor and Francis) IF:2.779 (Q1)
Structures (Elsevier). IF:4.010 (Q1)
Journal of Building Engineering (Elsevier). IF: 5.318 (Q1).
Earthquake Engineering and Vibration (Springer). IF: 0.847 (Q3).

REFERENCES

Dr.Jose M. Adam, Professor and Director of Concrete Science and Technology Institute – ICITECH, Spain E-mail: joadmar@upv.es Ph.No 96 387 70 00 (Extensión:75621)

Dr.Kristijan Kolozvari, Associate Professor, Department of Civil and Environmental Engineering, California State University, Fullerton, USA, Email: kkolozvari@fullerton.edu

Dr.Kittipoom Rodsin, Associate Professor,Head of Research Center,King Mongkut's University of Technology, North Bangkok, Thailand. Ph.No. +66-2-555-2000[Ext.6511];Fax.+66-2-587-6930 E-mail krs@kmutnb.ac.th

Naveed Anwar,Vice President for Knowledge Transfer, Asian Institute of Technology (AIT) Bangkok,Thailand.Ph.No. +(662)5245533 E-mail dr.naveedanwar@gmail.com

Dr.Muhammad Irshad Qureshi, Assistant Professor, Department of Civil Engineering, University of Engineering and Technology (UET),Taxila, Pakistan, Email: m.irshad84@gmail.com