



# MOHAMMAD AHMADULLAH FAROOQI

POSITION: Associate Professor

## Personal Data

Nationality | Indian  
Date of Birth | October 1, 1973  
Department | Building Engineering  
Official UoD Email | mafarooqi@iau.edu.sa  
Office Phone No. |



## Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Intermediate	Basic
English	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
November 21 <sup>st</sup> , 2011	PhD (Geotechnical Engineering)	Newcastle, Australia	University of Newcastle, University Drive, Newcastle, NSW, Australia
December 26 <sup>th</sup> , 1996	Masters (Building Engineering)	AMU, Aligarh, India	AMU, Aligarh-202002 UP., India
July 1994	B. Tech. (Civil Engineering)	AMU, Aligarh, India	AMU, Aligarh-202002 UP., India

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Virtual Testing of Geomaterials through Micro Computed Tomographic (Micro-CT) Images and Computational Homogenization
Master	Development of software for Classification of Soils and Bearing Capacity of Shallow Foundations



Fellowship	University of Newcastle International Post-Graduate Research Scholarship (UNIPRS) from 2007 to 2010
Fellowship	University of Newcastle International Post-Graduate Research Central (UNRSC) Scholarship from 2007 to 2010

### Professional Record: (Beginning with the most recent)

Job Rank	Date
Associate Professor	Department of Building Engineering, College of Architecture and Planning, Imam Abdulrahman Bin Faisal University (IAU), Dammam, KSA April 1, 2019 – Till Date
Associate Professor	Department of Civil Engineering, AMU, Aligarh, India January 9, 2015 – March 2019
Casual Academic	University of Newcastle, NSW, Australia Feb., 2008 – Nov, 2010
Assistant Professor	Civil Engineering Section, University Polytechnic, AMU Dec 28, 1996 – January 8, 2015

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
International Academic Advisor	Zamzam University of Science and Technology, Somalia	2017-18 To 2018-19

### Scientific Achievements

#### Published Refereed Scientific Researches (Recent)

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Mohd Ahmadullah Farooqi, Kausar Ali, Irfan Ahmad Shah & Khalid Saqer Alotaibi,	Effect on bearing capacity and settlement behavior of fly-ash reinforced with fine micropiles	Geomechanics and Geoenvironment: An International Journal, DOI: 10.1080/17486025.2022.2096265
2	Saif Ahmad, Mohammad Mujeebu,	Energy Harvesting from Pavements: A Comprehensive Review of	International Journal of Energy Research, Vol. 43, Issue 6.



	Mohd Ahmadullah Farooqi,	Technologies, Materials and Challenges	
3	Irfan Ahmad Shah, Kausar Ali, Mohd Ahmadullah Farooqi	A Numerical Study on the Bearing Capacity of Fly-Ash Reinforced with Fine Micropiles	International Journal of Geosynthetics and Ground Engineering (2021) 7(1) 1-14 DOI: s40891-020-00245-8
4	Irfan Ahmad Shah, Mohammad Zaid, Mohd Ahmadullah Farooqi, Kausar Ali,	Numerical Study on Micropile Stabilized Foundation in Flyash	Indian Geotechnical Journal (2021) 1-8 DOI: s40098-020-00476-6
5	Reshma Jolly, Aijaz Ahmed Khan, Syed Sayeed Ahmed, Sharique Alam, Shadab Kazmi, Mohammad Owais, <b>Mohd Ahmadullah Farooqi</b> , Mohammad Shakir	Bioactive Phoenix dactylifera seeds incorporated chitosan/hydroxyapatite nanoconjugate for prospective bone tissue engineering applications: A bio-synergistic approach.	Materials science & engineering. C, Materials for biological applications, Volume: 109, Pages: 110554-110554.
6	Mohammad Shakir, Reshma Jolly, Aijaz Ahmed Khan, Syed Sayeed Ahmed, Sharique Alam, Mohd. Ahmar Rauf, Mohd. Owais, <b>Mohd. Ahmadullah Farooqi</b> ,	Resol based chitosan/nano-hydroxyapatite nanoensemble for effective bone tissue engineering,	Carbohydrate Polymers, 179 (2018) 317–327
7	Reshma Jolly, Mohammad Furkan, Aijaz Ahmed Khan, Syed Sayeed Ahmed, Sharique Alam, Mohd Ahmadullah Farooqi, Rizwan Hasan Khan and Mohammad Shakir	Synthesis and characterization of b-cyclodextrin/carboxymethyl chitosan / hydroxyapatite fused with date seed extract nanocomposite scaffolds for regenerative bone tissue engineering,	Materials Advances, 27th July, 2021, DOI: 10.1039/d1ma00286d
8	Fauzia A., Shukri Yahaya and Farooqi M. A.	Characterization and geotechnical properties of Penang Island residual soils with emphasis on landslides	American Journal of Environmental Sciences. Special Issue on Landslides (ISSN: 1553-345X, DOI: 10.3844/ajessp.2006.121.128).
9	M. M. Ali, F. Ahmad, A. S. Yahaya & M. A. Farooqi	Characterization and Hazard Study of Two Areas of Penang Island, Malaysia	Human and Ecological Risk Assessment, 17: 915–922, 2011, Taylor & Francis Group, LLC



			(ISSN: 1080-7039 print / 1549-7860 online, DOI: 10.1080/10807039.2011.588156)
10	AA Mohamed, SY Wong, LT Leong, Mohammad Ahmadullah Farooqi, RP Jaya, ZH Al-Saffar	Durability Phenomena of Bitumen and Bituminous Pavement Materials	The Open Civil Engineering Journal 15 (1)

### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Mohammad A. Farooqi,	An Algorithm for virtual testing of geomaterials using Micro-CT images	1 <sup>st</sup> International Conference on innovations in Civil Engineering (ICE2017), in Politeknik Port Dickson, <b>Malaysia</b>
2	M. Wasif Naqvi, Mohd. Ahmadullah Farooqi	Effect of Piled Structures on the Tunnel Stability for Different Pile-Tunnel Configurations,	International Symposium on Geotechnics of Transportation Infrastructure (ISGTI-2018), <b>IIT, Delhi</b> (7-8th April, 2018)
3	Mohammad A. Farooqi, K Krabbenhoft, SW Sloan	Virtual Testing of Geomaterials Through Micro Computed Tomographic Images and Computational Homogenization.	8th Fib PhD Symposium in Kgs Lyngby, <b>Denmark</b> June 20 – 23, 2010
4	R. D. Gupta, Javed Alam and M. Ahmadullah Farooqi	Effects on CBR value and other Geotechnical Properties of Fly ash mixed with non-Woven Geo fibers and Lime.	5th International Conference on Ground Improvement Techniques, Kuala Lumpur, Malaysia 22 to 23rd March, 2004

### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date



1.	Prof. Mahfoozur Rehman, (eScience Fund, Malaysia)	Development of the sensor-based landslide prediction model.  (I developed this proposal with Prof. Mahfooz and worked on it as landslide specialist)	2008

### Current Researches

#	Research Title	Name of Investigator(s)
1	<b>A novel methodology to improve bearing capacity and settlement of Sabkha soil using ultra-micro piles and geotextiles [Ongoing]</b>	Dr. Mohd Ahmadullah Farooqi, Dr. Khalid S. Alotaibi
2	<b>A Novel Foundation System Design for Shallow-Water-Table or Water-Logged Areas - A Customized Solution for King Fahad Suburb Located in the Eastern Province of Saudi Arabia [Applied]</b>	Dr. Mohd Ahmadullah Farooqi, Dr. Khalid S. Alotaibi
3		

### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	8 <sup>th</sup> Fib PhD Symposium in Kgs.	Lyngby, Denmark June 20 – 23, 2010	90% 10% from supervisors as reviewers.
2	1st International Congress on Innovations in Civil Engineering (ICE2017)	Kuala Lumpur, Malaysia (15-16th Nov, 2017)	100%
3	International Symposium on Geotechnics of Transportation Infrastructure (ISGTI-2018),	IIT, Delhi (7-8th April, 2018)	60%
4	World Engineering Congress 2007 (WEC2007),	5-9 August 2007, Penang, Malaysia, 210-216.	100%
5	Civil Engineering Colloquium CEC'06, University Sains Malaysia,	Penang, Malaysia. 24th to 25th May, 2006.	100%



6	International Conference on Slopes Malaysia 2008,	Kuala Lumpur, 4-6 November 2008	100%
7	7th Annual Conference of the School of Architecture, Computing and Technology.	19 January, 2012, Crown Plaza Hotel, Docklands, East London.	100%
8	Conference of First World Landslide Forum	18-21 November 2008, United Nations University, Tokyo, Japan	100%
9	5th International Conference on Ground Improvement Techniques	Kuala Lumpur, Malaysia 22 to 23rd March, 2004	100%
10	Conference on Fly Ash Disposal & Deposition: Beyond 2000 AD,	Indian Institute of Technology (IIT), Kanpur. 5-6th February, 1999	100%
11	Conference on Advances in Geotechnical Engineering AGE-2016,	AMU, Aligarh, India, 8-9 April, 2016.	80%

#### Membership of Scientific and Professional Societies and Organizations

- **Life member Indian Geotechnical Society (LM-1966).**
- **Member Indian Road Congress (IRC)**
- **Member International Society of Soil Mechanics & Geo-Technical Engineering. (ISSMGE)**
- **Member of the Center for Geotechnical and Material Modelling (CGMM), University of Newcastle, Australia (From its inception to 2010)**

#### Teaching Activities

##### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Geotechnical Engineering	BSTC-422	100% Lectures = 10; Labs. = 10
2	Advanced Geotechnical Engineering	BSTC-575	100% Lectures = 10;
3	Foundation Design	BSTC-574	100% Lectures = 10;
4	Structural Analysis	BSTC-303	100% Lectures = 10;
5	Structural Steel Design	BSTC-441	100%



			Lectures = 10;
6	Construction Technology- Material Science	BSTC-411	50% (Shared) Lectures = 10;

**Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)**


**Postgraduate**

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs)
1			
2			

**Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)**

1	
2	

**Course Coordination**

#	Course Title and Code	Coordinati on	Co- coordinati on	Undergrad.	Postgrad .	From	To
1	Structural Steel Design (BSTC-441)	Yes		Yes	No	2019	2022
2	Geotechnical Engineering (BSTC-422)	Yes		Yes	No	2019	2022
3	Foundation Design (BSTC-574)	Yes		Yes	No	2021	2022

**Guest/Invited Lectures for Undergraduate Students**

#	Activity/Course Title and Code	Subject	College and University or Program	Date
	Structural Modelling using ETABS	Design	Department of Building Engineering, IAU, Saudi Arabia	November, 2023
	Foundation Modelling and Design using CSI-SAFE	Design	Department of Building Engineering, IAU, Saudi Arabia	November, 2023



### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	Semester 8-9	12 Students	2020	2022

### Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Maters (Dissertation)	Comparative Analysis of Soil-Nailed Structure using SNAP-2 and SLOPE/W Software and Development of Design Charts following FHWA Guidelines	AMU, Aligarh. India	Oct. 2018
2	Maters (Dissertation)	Numerical modelling of Embankment constructed over Soft Soil Reinforced with Stone Columns	AMU, Aligarh. India	Dec. 2018
3	Maters (Dissertation)	A Numerical Study on the Bearing Capacity and Consolidation behavior of Fly-Ash embankment Reinforced with Fine Micropiles	AMU, Aligarh. India	August 2019

### Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
	Bachelor	Developing a Mathematical Model to Study the Effect of Spacing and Diameter of Screw Piles on Bearing Capacity in Sabkha soil.	Department of Building Engineering, IAU, Saudi Arabia	2023-24
1	Bachelor	Design and application of multi-barrel sustainable composite stone columns for mid-rise buildings.	-do-	2023-24
2	Bachelor	Effect of Micropiles on Load Bearing Capacity and Settlement Behavior of Sabkha Soil Deposits	-do-	2021-22





3	Bachelor	The Effect on Bearing Capacity of Encased Stone Column on Sabkha Soil	-do	2021-22
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### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

#### Administrative Responsibilities

#	From	To	Position	Organization
1	2021	2022	Risk Manager	College of Architecture and Planning, Imam Abdulrahman Bin Faisal University
2	2020	2022	Head	APR Committee

#### Committee Membership

#	From	To	Position / Committee Name	Organization
1	2022	-2023	Head, Research Committee	Department of Building Engineering, College of Architecture and Planning, Imam Abdulrahman Bin Faisal University
2	2021	2022	Head, Annual Program Report (APR) Committee	Department of Building Engineering, College of Architecture and Planning, Imam Abdulrahman Bin Faisal University
2	2019	2022	Quality Assurance Committee	Department of Building Engineering, College of Architecture and Planning, Imam Abdulrahman Bin Faisal University
3	2021	2022	Head, Structures Committee	Department of Building Engineering, College of Architecture and Planning, Imam Abdulrahman Bin Faisal University

#### Scientific Consultations

#	From	To	Institute	Full-time or Part-time
1	2015	2016	AMU, Aligarh. India	Part-Time



### Volunteer Work

#	From	To	Type of Volunteer	Organization

### Guest/Invited/ Keynote Lectures

#	Title	Place	Date
1	Invited Lecture: “Progressive Homogenization Method: A Computationally inexpensive technique for virtually testing geomaterials using Micro CT scans”	Workshop organized by Snow Avalanche Study Establishment (SASE), Defence Research and Development Organization (DRDO), Chandigarh, HP, India,	during 28-29th May, 2014
2	An algorithm for virtual testing of geomaterials using MicroCT images, [Keynote Lecture]	International Conference: Innovations in Civil Engineering ICE-2017. Kuala Lumpur, Malaysia	15-16th Nov, 2017
3	Invited Lecture on SMART TRANSPORTATION in a Faculty Development Program, funded by UP Government, on Environmental Management and Smart Cities	Hindustan College of Science and Technology, Farah, Mathura, India	June 09-13, 2018,

### Awards / Scholarships

#	Award Name	Place	Date
1	Best Presenter Award	Civil Engineering Colloquium CEC’06, University Sains Malaysia, Penang, Malaysia.	24-25th May 2006
2	University of Newcastle International Post-Graduate Research Scholarship (UNIPRS)	University of Newcastle, Australia	2007-2010
3	University of Newcastle International Post-Graduate Research Central (UNRSC) Scholarship	University of Newcastle, Australia	2007-2010

### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	FEM: ABAQUS, OptumG2, Sigma/W
2	Programming: Matlab, C, Python, etc.
3	Civil Engineering: STAAD and STAAD Pro (Structural Design Software), ETABS,



	<b>SAFE Foundation, STAAD Foundation</b>
<b>4</b>	<b>Project Management: MS Project</b>
<b>5</b>	<b>GeoStudio 2016: Slope/W (Slope Stability Analysis Software), Seep/W</b>
<b>6</b>	<b>Drawing: MS Visio</b>
<b>7</b>	<b>Word Processing: LaTeX (Word Processing software), MS Word (Advanced)</b>
<b>8</b>	<b>Referencing: Endnote, Jabref, Mendeley, MS Word Referencing</b>

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Last Update

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