

## DR. MOHSIN SIDDIQUE

Ph.D. (Civil Engineering/Hydraulic Engineering/Coastal Engineering)

Email: [msiddique@sharjah.ac.ae](mailto:msiddique@sharjah.ac.ae) & [yourmohsin@hotmail.com](mailto:yourmohsin@hotmail.com)



<b>EXPERIENCES</b>	
<b>Sep 2013</b> - <b>To date</b>	<b>University of Sharjah, UAE</b> <b>Position Held: Assistant Professor</b> <b>Brief Description of Main Duties:</b> <ul style="list-style-type: none"><li>▪ Teach undergraduate and graduate courses/laboratory session/tutorials</li><li>▪ Supervise students' research projects/theses</li><li>▪ advise students on courses, academic matters and career decisions</li><li>▪ Serve in various committees dealing administrative, teaching and learning activities</li><li>▪ Conduct research independently as well as a team member and publish the findings</li><li>▪ Engage in independent study, scholarly and social activities</li></ul>
<b>Aug 2012</b> - <b>Sep 2013</b>	<b>National University of Computer and Emerging Sciences, Lahore, Pakistan</b> <b>Position Held: Assistant Professor</b> <b>Brief Description of Main Duties:</b> <ul style="list-style-type: none"><li>▪ Develop and supervise new laboratories (e.g., Fluid Mechanics, Soil Mechanics, Strength of Material and Materials Testing etc) in newly established Civil Engineering Department.</li><li>▪ Prepare specification for new equipment of various laboratories</li><li>▪ Teach assigned undergraduate courses</li><li>▪ Participate in curriculum development activities</li><li>▪ Manage the activities related to the accreditation of Civil Engineering Department from Pakistan Engineering Council.</li><li>▪ Engage in independent study, research and scholarly activities</li></ul>
<b>Dec 2011</b> - <b>Aug 2012</b>	<b>University of Engineering and Technology Lahore, Pakistan</b> <b>Position Held: Assistant Professor</b> <b>Brief Description of Main Duties:</b> <ul style="list-style-type: none"><li>▪ Deliver lectures to undergraduate and graduate classes</li><li>▪ Supervise student and advising them in academic matters</li><li>▪ Work as team member on Faculty Research Projects</li><li>▪ Engage in administration works and commercial testing</li><li>▪ Manage Fluid Mechanics, Hydraulics and Irrigation Laboratories</li></ul>
<b>Dec 2011</b> - <b>Dec 2004</b>	<b>University of Engineering and Technology Lahore, Pakistan</b> <b>Position Held: Lecturer</b> <b>Brief Description of Main Duties:</b> <ul style="list-style-type: none"><li>▪ Deliver Lectures to undergraduate and graduate classes</li><li>▪ Supervise student and advising them in academic matters</li><li>▪ Work as team member on Faculty Research Projects</li><li>▪ Engage in administration works and commercial testing</li><li>▪ Manage Fluid Mechanics, Hydraulics and Irrigation Laboratories</li></ul>

<b>EDUCATION</b>	
<b>2008~2011</b>	PhD Civil Engineering (Hydraulics/Coastal Engineering) ▪ <b>The University of Tokyo, JAPAN</b>
<b>2005~2007</b>	MSc Civil Engineering (Hydraulics/Coastal Engineering) ▪ <b>The University of Tokyo, JAPAN</b>
<b>2000~2004</b>	BSc Civil Engineering (Honors) ▪ <b>University of Engineering &amp; Technology Lahore, PAKISTAN</b>
<b>AWARDS AND HONORS</b>	
<b>2008-2011</b>	Monbukagakusho Scholarship by Government of Japan to complete PhD in Civil Engineering at The University of Tokyo, Japan
<b>2005-2007</b>	Asian Development Bank, Japan Scholarship to complete MSc in Civil Engineering at The University of Tokyo, Japan
<b>2003</b>	Merit scholarship during final year of B.Sc. at the University of Engineering and Technology Lahore, Pakistan
<b>PROFESSIONAL MEMBERSHIP</b>	
	International Association of Hydro-environment and Research (member)  Pakistan Engineering Council (Professional engineer)  Pakistan Engineering Congress (member)
<b>COMPUTER LITERACY</b>	
	MS-office, Matlab, Fortran,  Delft3d, Autocad, ArcGIS, Erdas imagine
<b>COURSES TAUGHT/SUPERVISION</b>	
<b>Undergraduate Level</b>	Fluid Mechanics-1, Hydraulics, Hydraulic Engineering and Design, Special topics in water/Environmental Engineering, Engineering Economics, Introduction to Environmental Engineering, Irrigation and Hydropower Engineering, Engineering Hydrology, Civil Engineering Drawing and Graphics, and Advance Engineering Surveying,
<b>Graduate Level</b>	Fluid Mechanics, Applications of Remote sensing and GIS in Civil Engineering, Hydraulic Structures
<b>Project/Thesis Supervision</b>	Senior Design projects, MS/PhD Thesis
<b>PUBLICATIONS</b>	
<b>Journal/Book Chapters</b>	Abdallah Shanableh, Rami Al-Ruzouq, Abdullah Yilmaz, <b>Mohsin Siddique</b> , Tarek Merabtene, Monzur Imteaz. (2018), Effects of Land Cover Change on Urban Floods and Rainwater Harvesting in Sharjah, United Arab Emirates, Water 2018, 10(5), 631, <a href="https://doi.org/10.3390/w10050631">https://doi.org/10.3390/w10050631</a> <b>Mohsin Siddique</b> , Tarek Merabtene, Yoshimitsu Tajima. (2017), Wave transformation and hydrodynamic characteristics of wave breaking models coupled with Boussinesq Equations,

	<p>Journal of Hydraulic Research, Vol. 55, Issue 6, pp 759-771, <a href="http://dx.doi.org/10.1080/00221686.2017.1289261">http://dx.doi.org/10.1080/00221686.2017.1289261</a></p> <p>Shanableh, A., M. Imteaz, K. Hamad, M. Omar, T. Merabtene, <b>M. Siddique</b>. (2017), Potential Impact of Global Warming on Whiting in a Semi-Enclosed Gulf. International Journal of Global Warming, Vol. 13, Issue 3-4, <a href="https://doi.org/10.1504/IJGW.2017.087210">https://doi.org/10.1504/IJGW.2017.087210</a></p> <p>Tarek Merabtene, <b>Mohsin Siddique</b>, Abdallah Shanableh., (2016). Assessment of Seasonal and Annual Rainfall Trends and Variability in Sharjah City, UAE, Advances in Meteorology, Volume 2016, Article ID 6206238, 13 pages <a href="http://dx.doi.org/10.1155/2016/6206238">http://dx.doi.org/10.1155/2016/6206238</a></p> <p><b>Mohsin Siddique</b>, Senthilkumar Ventakachalam and Tarek Merabtene, (2016), Improving the learning experience of engineering students through various methods of homework, Quality assurance in Engineering Education, University of Sharjah, ISSN: 978-9948-10-122-2 (book chapter)</p> <p>Tarek Merabtene, <b>Mohsin Siddique</b>, and Abdallah Shanableh, (2016), Review of Engineering Programs Towards Sustainable Future of Water Resource Engineering and Management in UAE, Quality assurance in Engineering Education, University of Sharjah, ISSN: 978-9948-10-122-2 (book chapter)</p> <p>Senthilkumar Ventakachalam and <b>Mohsin Siddique</b>, (2016), A Comparative Study Between The Structured And Adhoc Method Of Student Feedback Mechanisms On The Lecturer And Course Evaluation, Quality assurance in Engineering Education, University of Sharjah, ISSN: 978-9948-10-122-2 (book chapter)</p> <p><b>Mohsin, S.</b> and Tajima, Y., (2014). Modeling of time-varying shear current field under breaking and broken waves with surface rollers. Coastal Engineering Journal, JSCE, Vol. 56, No. 3 (27 pages)</p> <p>Babar Mujtaba, <b>Mohsin Siddique</b>, Habib ur Rehman, (2014). Experimental study on velocity field over submerged breakwater using particle image velocimetry, Science International Journal, Issue: Nov-Dec, 2014, pp. 2369-2377</p> <p>Tajima, Y., and <b>Mohsin, S.</b> (2012), Comparisons of breaking wave models in predictions of current field based on non-linear dispersive wave model, (in japanese), Journal of Japan Society of Civil Engineers, ser. B3 (Ocean engineering) 01/2012; 68(2): pp 792-797</p>
<b>Conferences</b>	<p>K.H. Barlaas, Habib-ur-Rehman, <b>Mohsin Siddique</b>, Abdul Sattar Shakir, and Muhammad Naeem Akhtar, (2017), Flood inundation mapping for the Gwadar city, Advances in Sustainable Construction Materials &amp; Civil Engineering Systems (ASCMCES-17), held in Sharjah, UAE, 18-20/4/2017</p> <p>A. Shanableh, R. Al-Ruzouq, <b>M. Siddique</b>, T. Merabtene, A. Yilmaz and M. Imteaz, (2017), Impact of urban expansion on potential flooding, storage and water harvesting in the city of Sharjah, United Arab Emirates, Advances in Sustainable Construction Materials &amp; Civil Engineering Systems (ASCMCES-17), held in Sharjah, UAE, 18-20/4/2017</p> <p>M Talha Junaid, <b>Mohsin Siddique</b>, and Senthilkumar Venkatachalam, (2017), Multiple-choice versus descriptive exams for direct evaluation of engineering courses at University of Sharjah, held in Sharjah UAE, 8th IFEE jointly with 4th ICTSD, 18-20/4/2017</p> <p><b>Mohsin Siddique</b>, Tarek Merabtene, Abdallah Shanableh and Rami Al Ruzouq, (2015), Numerical study on bottom shear stress under breaking waves, 5th International conference on estuaries and coast, held on 2-4 Nov 2015 in Musqat, Oman</p> <p>A. Shanableh, M. Imteaz, K. Hamad, M. Omar, T. Merabtene, <b>M. Siddique</b>, (2015). Potential Impact of Global Warming on Whiting (Lime Suspensions) in a Semi-Enclosed Gulf, accepted in 15<sup>th</sup> Global Conference on Global Warming held in Athens on May 24-27, 2015</p> <p><b>Mohsin Siddique</b>, Tarek Merabtene, Abdallah Shanableh, Rami Al Ruzouq, (2015)., Impact of Climate Change on Long Term Rainfall Trend in UAE and Future Challenges: A Case Study of Sharjah Airport Data, 3rd Int. Conf. on Global Warming: Food Security, held on 5-7 May, 2015 in Ras Al Khaimah, UAE</p> <p><b>Siddique Mohsin</b>, Yoshimitsu Tajima, Shinji Sato (2011), Experimental and numerical study on current velocities and vertical profiles of undertow over a submerged breakwater, Proc. of 6th Int. Conf. of Asian and Pacific Coasts, held in Hongkong, on December 14 - 16, 2011</p> <p><b>Siddique Mohsin</b>, Yoshimitsu Tajima, Shinji Sato, (2011) Experimental and numerical study on cross-shore volume flux over a submerged breakwater, Proc. of Conf. on Coastal Structures, held in Yokohama Japan on September 5-9, 2011</p> <p><b>Siddique Mohsin</b>, Saki Tomita and Yoshimitsu Tajima, (2010) Experimental study on interaction of waves, currents and dynamic morphology changes., Proc. of 5th Int. Conf. on</p>

	<p>Scour and Erosion, held in San Francisco , CA, USA on November 7-10, 2010, pp. 697-706</p> <p><b>Siddique Mohsin</b>, Yoshimitsu Tajima and Shinji Sato, (2009) Experimental study on ripple geometries and their equivalent roughness under wave motions., Proc. of 5th int. conf. of Asian and Pacific Coasts, held in Singapore on 13-16 October 2009 , Vol. 3 pp. 29-35.</p> <p>Mazhar A Zahoor, Rizwan M and <b>Mohsin S, (2006)</b>, Performance of Sediment Transport Functions for Reservoir Sediment Simulation of Mangla and Tarbela Reservoirs, 8th Int. Summer Symposium of JSCE, Japan, pp. 87 – 90</p>
<b>RESEARCH GRANTS</b>	
	<p>2015-2017: Development of Intensity-Duration-Frequency relationship for Sharjah city under changing climate. Principle Investigator: Dr. Mohsin Siddique. Members: Dr. Tarek Merabtene, Prof. Abdallah Shanableh, and Dr. Rami Al-Ruzouq</p> <p>2016-2018: Digital Mapping of Groundwater Potential Zones in Sharjah/ UAE using Remote Sensing Data and GIS. Principle Investigator: Dr. Rami Al-Ruzouq. Members: Prof. Abdallah Shanableh, Dr. Tarek Merabtene, and Dr. Mohsin Siddique</p>
<b>GRADUATION THESIS</b>	
<b>PhD Thesis</b>	Cross Shore and Vertical Distributions of Time Varying Current Field under Breaking and Broken Waves
<b>MSc Thesis</b>	Experimental Study on Ripple Geometries and their Equivalent Roughness under Wave Motions
<b>BSc Project</b>	Finely Divided Hydrated Lime as Mortar and Concrete Admixture
<b>PERSONALS</b>	
Nationality Marital Status	Pakistani Married
Present Address Phone Email	Department of Civil and Environmental Engineering, University of Sharjah, UAE +971-6-5050943 <a href="mailto:msiddique@sharjah.ac.ae">msiddique@sharjah.ac.ae</a>