

Haider Hasan
Department of Civil Engineering,
NED University of Engineering and Technology, Univeristy Road, Karachi - 75270, Pakistan.
Telephone: + (92-21) 99261261 Ext: 2618 Mobile No: + (92) 3072249793
E-mail: hhasan@neduet.edu.pk

Profile Summary

My interest lies in coastal hazard research specializing in tsunami modeling and risk assessment. Experienced academic at NED University of Engineering & Technology, adept at curriculum management and leading research initiatives. Collaborative approach to international projects, including studying the impact of the 1945 Makran tsunami and developing risk mitigation strategies through inundation modeling.

a. Education

Kingston University, Kingston Upon Thames, UK	BSc(Hons) in Mathematics and Computing	1998-2001
University of Bristol, Bristol, UK	MSc in Industrial and Environmental Modelling	2001-2002
University of Nottingham, Nottingham, UK	Ph.D. in Civil Engineering	2002-2007

b. Appointments

Jan 2012 - Present	Associate Professor, Department of Civil Engineering, NED University of Engineering & Technology, Karachi, Pakistan
Dec 2009 - Dec 2011	Assistant Professor, Department of Civil Engineering, NED University of Engineering & Technology, Karachi, Pakistan
Apr 2009 - Dec 2011	Assistant Professor, Department of Maths & Basic Sciences, NED University of Engineering & Technology, Karachi, Pakistan
Aug 2008 - Apr 2009	Assistant Professor, Department of Mathematics, Air University, Islamabad, Pakistan
May 2007 - Mar 2008	Hydrodynamic Modeller, Pakistan Engineering Services (PVT.) Ltd., Lahore, Pakistan

c. Publications

- 1) Adams LM, Atwater BF, Hasan H (2018) Karachi tides during the 1945 Makran tsunami. *Geosci Lett*. <https://doi.org/10.1186/s40562-018-0121-z>
- 2) Karachi effects of the Makran earthquake and tsunami of November 1945—Mercury spilled, tide gauge impaired, seawalls overrun, boats displaced, mosque flooded. Atwater, B.F., Hasan, H., Naeem, G., Kakar, D.M., Humayun, A., Srinivasalu, S., Elton, J., Hasan, N.A., Elton, J., Usman, A., Lodhi, H.A., Ahmed, S., Wright, L.M., and Adams, L.M. (compilers). 44 p. Paris, UNESCO. (IOC Brochure 2020-7)
- 3) Hasan, H, N. Dodd and R. Garnier, 2009, Stabilizing Effect of Random Waves on Rip Currents, *Journal of Geophysical Research (Oceans)*, 114 (C07010)
- 4) Hasan, H, H.A. Lodhi, R.J. LeVeque, S.H. Lodi and S. Ahmed (2017), Assessing Tsunami Risk to Karachi Port through Simulation of Currents that were Reportedly Produced there by the 1945 Makran Tsunami, 16th World Conference on Earthquake Engineering, Santiago, Chile, January 9th - 13th 2017 (http://faculty.washington.edu/rjl/pubs/Hasan2017/Paper_No503_sept2016.pdf)
- 5) Hasan H, Atwater BF, Ahmed S (2018) A digital elevation model for simulating the 1945 Makran tsunami in Karachi Harbour. *Geosci Lett*. <https://doi.org/10.1186/s40562-018-0117-8>
- 6) Kakar, D., G. Naeem, A. Usman, H. Hasan, H. Lodhi, S. Srinivasalu, V. Andrade, C. Rajendran, A. Beni, M. Hamzeh, G. Hoffmann, N. Al Balushi, N. Gale, A. Kodijat, H. Fritz, and B. Atwater (2014), Elders recall an earlier tsunami on Indian Ocean shores, *Eos Trans. AGU*, 95(51), 485486, doi:10.1002/2014EO510002 (<https://eos.org/features/elders-recall-earlier-tsunamiindian-ocean-shores>)
- 7) Lodhi, Hira A., Haider Hasan, and N. A. K. Nandasena. (2020). 'The Role of Hydrodynamic Impact Force in Subaerial Boulder Transport by Tsunami—Experimental Evidence and Revision of Boulder Transport Equation'. *Sedimentary Geology* 408: 105745. <https://doi.org/10.1016/j.sedgeo.2020.105745>.
- 8) Lodhi, H. A., Ahmed, S., & Hasan, H. (2021). Tsunami heights and limits in 1945 along the Makran coast estimated from testimony gathered seven decades later in Gwadar, Pasni and Ormara. *Nat. Hazards Earth Syst. Sci. Discuss.*, 2021, 117. <https://doi.org/10.5194/nhess-2021-53>