

Naveed Ul Hassan Bhat

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BRIEF	I am a Graduate Student at Hydraulics and Water Resources Group, Department of Civil Engineering IIT Kanpur. My work revolves around computational Hydraulics and modeling of fluid-flow interaction with porous media.	
EDUCATION	MTech & Ph.D., Hydraulics and Water Resources Engineering Indian Institute of Technology Kanpur, U.P., India CPI-9.75/10	2019-Ongoing
	BTech Civil Engineering National Institute of Technology, Srinagar, J & K, India CPI-8.22/10	2014-18
RESEARCH INTERESTS	Computational Fluid Dynamics Sediment Transport Modeling Fluid-Porous media interaction	
TEACHING ASSIGNMENTS	IIT Kanpur <ul style="list-style-type: none">• Engineering Hydraulics (CE262A)• Computational Methods in Engineering (ESO208A)• Engineering Hydrology (CE361A) HBTU Kanpur <ul style="list-style-type: none">• Hydraulics and Hydraulic Machines (ECE-301)• Engineering fluid mechanics (ECE-202)(Ongoing)	
ACADEMIC PROJECTS	Undergraduate Project Seismic characterization of soils in Srinagar city using geophysical tests (Multichannel Analysis of Surface waves), and provide database about dynamic properties of soils Ongoing Project A Unified Depth-Averaged Coupled Framework for Modeling Flow Interaction with Deformable Porous Media	
PUBLICATIONS	<ol style="list-style-type: none">[1] Bhat, N.U.H., Pahar, G. Diffusion wave approximation of depth-averaged flow interaction with porous media. <i>Journal of Hydrologic Engineering</i>, 26(2), 04020064, 2021. doi: 10.1061/(ASCE)HE.1943-5584.0002028[2] Bhat, N.U.H., Pahar, G. Euler–Lagrange framework for deformation of granular media coupled with the ambient fluid flow. <i>Applied Ocean Research</i>, 116, 102857, 2021. doi: 10.1016/j.apor.2021.102857[3] Bhat, N.U.H., Pahar, G. Depth-averaged coupling of submerged granular deformation with fluid flow: An augmented HLL scheme. <i>Journal of Hydrology</i> 606,127364, 2022. doi: 10.1016/j.jhydrol.2021.127364	