



Course for the Doctoral Program in Structural and Geotechnical Engineering

Failure and Instability in Geomaterials and Geosystems

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SHORT BIO



Giuseppe Buscarnera is Professor of Civil and Environmental Engineering at Northwestern University, which he joined in 2011. He received his B.Sc. (2004) and M.S. (2007) in Civil Engineering from the Politecnico di Milano and a Ph.D. (2010) in Geomechanics from the Politecnico di Torino, in the frame of the Scuola Interpolitecnica di Dottorato. During his doctoral and post-doctoral studies, he collaborated with several academic institutions worldwide, such as the Universitat Politècnica de Catalunya, the Massachusetts Institute of Technology, and the University of Sydney. Dr. Buscarnera's research focuses on the mechanics of soils and rocks, landslide geomechanics, the multi-physics of subsurface energy systems, and the micromechanics of granular materials. He is the PI of numerous sponsored projects on these topics and his research has been awarded with the Faculty Early Career Award of the U.S. National Science Foundation and the Arthur Casagrande Award of ASCE. Dr. Buscarnera is a member of several technical committees within ASCE and ISSMGE and the designated Chair of the Soil Properties and Modeling committee of the Geo-Institute of ASCE. He has served in the Editorial Board of the Journal of Geotechnical and Geoenvironmental Engineering until 2024 and is currently serving as Editorial Board member of the Journal of Rock Mechanics and Geotechnical Engineering, the International Journal for Numerical and Analytical Methods in Geomechanics and as the Editor-in-Chief of Géotechnique Letters.



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