Kiyumars Sahebkar

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CONTACT INFORMATION

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RESEARCH INTERESTS

- Development of analytical methods in hydrodynamic and poroelastodynamic problems

- Numerical analysis of dam-reservoir-foundation systems

- Analysis of inhomogeneous and anisotropic mediums

- Fluid-structure-soil interaction problems

EDUCATION

College of Engineering, University of Tehran (UT), Tehran, Iran
PhD in Civil Engineering (Hydraulic Structures)   **2018**
Thesis: *Impedance Function of Rigid Disk Buried in Transversely Isotropic Saturated Porous Media Using Scalar Potential Functions*, supervised by Prof. M. Eskandari-Ghadi

Amirkabir University of Technology (AUT), Tehran, Iran
M.S. in Civil Engineering   **2011**
Major: Hydraulic Structures
Thesis: *Dynamic Analysis of Concrete Gravity Dam-Reservoir-Foundation Rock System by Finite Elements Method in Time Domain*, supervised by Prof. V. Lotfi

Ferdowsi University of Mashhad (FUM), Mashhad, Iran
B.S. in Civil Engineering   **2009**
Major: Civil Engineering

Diploma in Mathematics and Physics   **2004**

Diploma in Computer Science   **2004**

HONORS and AWARDS

- Ranked 1st for the whole PhD Program of Hydraulic Structures, University of Tehran   **2018**

- Qualified as "Top University Graduate" by National Talents Foundation   **2016**

- Ranked 1st for the whole M. S. Program of Hydraulic Structures, Amirkabir University of Technology   **2011**

- Awarded an admission from Amirkabir University of Technology for M.S. program of civil engineering   **2009**

▪ Ranked 1st among 119 civil engineering students for the whole B.S. of civil engineering, Ferdowsi University of Mashhad	**2009**
▪ Qualified as "elite researcher" in engineering faculty of Ferdowsi University of Mashhad	**2008**
▪ Qualified as finalist in the national civil engineering Olympiad	**2007**
▪ Ranked top 1% in Iran's nationwide university entrance exam among more than 400,000 participants	**2005**
▪ Qualified as member of Young Mathematicians Institute	**2003**

INSTRUCTIONAL EXPERIENCE

- Advanced Mathematics (Graduate)
- Hydrodynamics (Graduate)
- Fluid Mechanics (Undergraduate)
- Engineering Hydrology (Undergraduate)
- Dam Engineering (Undergraduate)
- Loading on Building Structures (Undergraduate)
- Teacher Assistant in Statics, Dynamics, Concrete Lab., Structural Analysis I and II, English for Civil Engineers

PUBLICATIONS AND PAPERS

▪ Sahebkar, K., Eskandari-Ghadi, M., 2018. Dynamic behaviour of an infinite saturated transversely isotropic porous media under fluid-phase excitation. *Soil Dynamics and Earthquake Engineering*, 107: 390-406.

▪ Sahebkar, K., Eskandari-Ghadi, M., 2017. Displacement ring load Green's functions for saturated porous transversely isotropic tri-material full-space. *International Journal for Numerical and Analytical Methods in Geomechanics*, 41(3): 359-381.

▪ Sahebkar, K., Eskandari-Ghadi, M., 2016. Time-harmonic response of saturated porous transversely isotropic half-space under surface tractions. *Journal of Hydrology*, 537: 61-73.

▪ Sahebkar, K., Eskandari-Ghadi, M., 2016. Fundamental solution of anisotropic fluid-saturated porous fullspace due to fluid point source, *12th International Congress on Advances in Civil Engineering (ACE2016)*, Istanbul, Turkey.

▪ Tavakkolizadeh, M., Sahebkar, K., Esmaeeli, V., "Determining the Modulus of Rupture of Concrete Made with Crushed Aggregate Using Cylindrical Specimens", *Proceedings of the 1st International Conference on Concrete Technology*, Tabriz, Iran, 2009.

▪ Tavakkolizadeh, M., Sahebkar, K., Esmaeeli, V., "Numerical Modeling of Behavior of Concrete Specimens Under Flexural Loading", *Proceedings of the 5th National Congress of Civil Engineering*, Mashhad, Iran, 2009.

▪ Saffarzadeh, M., Sahebkar, K., Ketabdari, M. J., Baghiee, N., "Hydrodynamic Analysis of Marine Risers Under Regular Linear and Nonlinear Waves Loading", *Proceedings of the 5th National Congress of Civil Engineering*, Mashhad, Iran, 2009.

COMPUTER SKILLS

Project Management software: MS Project, Excel, COMFARIII

Water related software: Water HAMMER

Programming Languages: MATHEMATICA, FORTRAN, MATLAB

Structural related software: ABAQUS, SAP, ETABS, SAFE

Dam related software: EAGD-84, FRACDAM, CADAM

Geotechnical related software: GeoStudio

Other software programs: AutoCAD, AutoCAD Land Desktop, Microsoft Office, TechPlot, Surfer