

Personal Bio

Vital Stats

Full Name: Reza Hedayat

Affiliation: Colorado School of Mines

Position: Assistant Professor of Civil and Environmental Engineering



Biography

Dr. Reza Hedayat is an Assistant Professor in the Department of Civil and Environmental Engineering and the center for Underground Construction and Tunneling at Colorado School of Mines. Dr. Hedayat received his B.S. degree in Civil Engineering from Shiraz University, M.S. degree in Geotechnical Engineering from Amirkabir University of Technology, and Ph.D. in Civil Engineering from Purdue University. Dr. Hedayat's research interests focus on the ground-support interaction in tunnels, micro-tunneling, multiscale experimental studies of geomaterials, rock and fracture mechanics, applied geophysics and wave propagation, and fluid flow in porous and fractured media. Dr. Hedayat's teaching interests are in mechanics of materials, soil mechanics, foundations, earth retaining structures, advanced geomaterials, rock mechanics, tunnels in hard rock, and fracture of geomaterials. Dr. Hedayat is the recipient of the Cook Ph.D. Dissertation award from the American Rock Mechanics Association (ARMA) in 2014 and the Manuel Rocha Medal Runner-Up Award from the International Society of Rock Mechanics (ISRM) in 2015.

Education

- Ph.D., Civil Engineering, Purdue University, 2013
- M.S., Amirkabir University of Technology, 2009
- B.S., Civil Engineering, Shiraz University, 2006

Awards and Major Publications

Major publications:

- Hedayat, A., Pyrak-Nolte, L and Bobet, A. (2014). Precursors to shear failure of rock discontinuities. *Geophysical Research Letters*, 41, 5467-5475, doi: 10.1002/2014GL060848.
- Hedayat, A., Pyrak-Nolte, L and Bobet, A. (2014). Multi-modal monitoring of slip along frictional discontinuities. *Rock Mechanics and Rock Engineering*, 47(5), 1575-1587, doi: 10.1007/s00603-014-0588-7.

Awards:

- Future Leaders Program Membership, American Rock Mechanics Association, 2015-Present
- Rocha Medal Runner-up Certificate Award, International Society of Rock Mechanics (ISRM), 2015
- Dr. N.G.W. Cook Ph.D. Dissertation Award, American Rock Mechanics Association, 2014