

# Personal Bio

## Vital Stats

Full Name: Houman Bedayat

Affiliation: Louisiana State University

Position: Postdoctoral Fellow



## Biography

Houman Bedayat received his PhD degree in Petroleum Engineering (with minor in mathematics) from Louisiana State University in 2014. His doctoral dissertation was a study on stress changes around hydrocarbon reservoirs due to fluid withdrawal/injection using the theory of linear poroelasticity. Before joining LSU, he obtained his undergrad degree in Civil Engineering and his MSc in Geotechnical Engineering from Sharif University of Technology, Tehran, Iran. Finishing his PhD, Houman joined Bureau of Economic Geology in University of Texas at Austin as a Postdoctoral Fellow working on geomechanical aspects of CO<sub>2</sub> Sequestration. Currently, Houman works on Land Subsidence Problems in Oil fields of Southern Louisiana in Civil Engineering Department at LSU.

Houman's main research interests and expertise are in the area of reservoir geomechanics, particularly the theory of poroelasticity, geomechanics of pores, coupled fluid flow in porous media, hydraulic fracturing, and fluid-rock interaction with the application in petroleum geomechanics. Houman was the founder of ARMA student Chapter at LSU in 2012. Human loves soccer and music and he plays Piano and Tombak.

## Education

Ph.D., Petroleum Engineering / Minor in Mathematics, Louisiana State University (LSU), 2014

M.Sc., Geotechnical Engineering, Sharif University of Technology (SUT), 2010

B.Sc., Civil Engineering, Sharif University of Technology, 2007

## Awards and Major Publications

Bedayat, H. & Dahi Taleghani, A. (2015). Pressurized Poroelastic Inclusions: Short-term and Long-term Asymptotic Solutions. *Rock Mechanics and Rock Engineering*, doi:10.1007/s00603-014-0705-7.

Bedayat, H. & Dahi Taleghani, A. (2014). Interacting double poroelastic inclusions. *Mechanics of Materials*, 69, 204-212, doi:10.1016/j.mechmat.2013.10.006.

Career Development Publications Awards, Bureau of Economic Geology, UT Austin, 2014.

PhD. Paper Contest Award, Petroleum Engineering Department at LSU, 2014.

American Association of Drilling Engineers (AADE) Award (\$30,000), AADE, 2013.

GDL Foundation Research Scholarship for two years, GDL Foundation, 2011-2012.