

Dr. Rezaei is a Postdoc at the University of Houston. His main area of expertise is computational geomechanics with applications to hydraulic fracture modeling, coupled poroelastic problems, and machine learning. He has eight years of experience in the area of model development for hydraulic fracturing problems. His developments include a programming library composed of several hydraulic fracturing models, including an elastic, fully coupled poroelastic, a fast multipole fully coupled poroelastic hydraulic fracture model, and software for fracture diagnostics using signal processing techniques. He also has developed several ML models for different applications in the oil and gas industry. In his career, Rezaei has authored and co-authored more than 25 technical papers and a book chapter and collaborated on several NSF, DOE, and industry-funded projects.



