

Sheng Dai

Assistant Professor, Geosystems Engineering at Georgia Tech College of Engineering
Atlanta, GA, US

Sheng Dai develops innovative testing techniques to study properties and processes in soils and rocks at elevated pressure and temperatures.

Biography

Sheng Dai, Ph.D., is an Assistant Professor in the School of Civil and Environmental Engineering at the Georgia Institute of Technology in Atlanta, Georgia (Georgia Tech), USA. Dr. Dai earned his BS and MS degrees in civil engineering from Tongji University, China, and MSCE and Ph.D. degrees in civil engineering (geosystems engineering) from Georgia Tech. He worked in the Predictive Geosciences Division at the National Energy Technology Laboratory of U.S. Department of Energy. In 2015, he returned to Georgia Tech and joined the faculty in the School of Civil and Environmental Engineering. He is an affiliated faculty in the Ocean Science and Engineering program and the Strategic Energy Institute at Georgia Tech. Dr. Dai has strong research and teaching interests in energy geotechnics, geomaterials characterization, geomechanics, and flow in porous media. His group develops innovative testing techniques in combination with advanced numerical modeling to study fundamental properties and BTHMC-coupled processes in soils and rocks at elevated pressure and temperature conditions. His research advances the fields of gas hydrate, enhanced geothermal systems, geological carbon sequestration, subsurface drilling/stimulation, and subsurface sensing and monitoring.

Areas of Expertise

Reservoir Geomechanics, Geomaterials Characterization, Energy Geotechnics, Flow in Porous and Fractured Media

Affiliations

Associate editor, Journal of Geophysical Research: Solid Earth, Task force leader, ISSMGE TC308 - Energy Geotechnics, Advisory: Pressure Core Advisory Board, USGS, DOI; GOM2 Marine Test Advisory Committee, UT/DOE, Member: AGU; InterPore; ISSMGE; SEG; ASCE; Geo-Institute, Reviewer: Geophysical Research Letters; Journal of Geophysical Research; Geochemistry Geophysics Geosystems; Environmental Science and Technology; Advances in Water Resources; etc.

Education

Georgia Institute of Technology
Ph.D. Geosystems Engineering

Georgia Institute of Technology
M.Sc. Geosystems Engineering

Tongji University
M.S. Geotechnical Engineering

Tongji University
B.S. Geotechnical Engineering

Selected Accomplishments

Class of 1969 Teaching Fellows, Georgia Tech
2016

ORISE Fellowship, NETL/DOE
2013, 2014

Bill Schutz Junior Faculty Teaching Award, CEE/Georgia Tech
2017

George F. Sowers Distinguished Graduate Student Award, Geosystems/Georgia Tech
2013

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