Curriculum Vitae

Yi Fang

Nationality: *China*
Place of Birth: *City of Wuhan*
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EDUCATION DETAILS

2013-2017	Ph.D.	Energy and Mineral Engineering, The Pennsylvania State University, University Park, USA
2011-2013	M.Sc.	Geology, The California State University, Long Beach, USA
2007-2011	B.Eng.	Civil Engineering, China University of Geosciences, Wuhan, China

PROFESSIONAL DETAILS

2017-Present	Postdoctoral Fellow; Institute for Geophysics, The University of Texas at Austin, USA
2016, 2017 Summer	Graduate Intern, Production Technology Team, Aramco Houston Research Center
2013-2017	Research Assistant, The Pennsylvania State University, University Park, USA
2011-2013	Research Assistant, The California State University, Long Beach, USA

SELECTED AWARDS & HONORS

Oct 2017, 2018	SPE Outstanding Technical Editor Award
Mar 2017	SedHeat Student Scholarship, Itasca Consulting Group
Jul 2014	Associate Member, Sigma Xi
Apr 2013	Member, The Honor Society of Phi Kappa Phi
Mar 2013	Recipient, Geological Society of America Student Travel Grant
Aug 2012	Recipient, Geological Society of America Student Research Grant
2011-2013	Carl W. Johnson-Bert Conrey Graduate Fellowship, CSULB
2011	Academician Scholarship of Chinese Academy of Sciences, CUG

SELECTED PUBLICATIONS (*corresponding author)

[1] **Fang, Y***., D. Elsworth, T. Ishibashi, and F. Zhang. 2018. Permeability evolution and frictional stability of fabricated fractures with specified roughness, *Journal of Geophysical Re*search, *Solid Earth*, doi: 10.1029/2018JB016215

[2] **Fang, Y***., D. Elsworth, C. Wang, Y. Jia. 2018. Mineralogical controls on frictional strength, stability, and shear permeability evolution of fractures. *Journal of Geophysical Research, Solid Earth*, 123, 3549-3563, doi: 10.1029/2017JB015338

[3] Ishibashi, T., D. Elsworth, **Y. Fang**, J. Riviere, B. Madara, H. Asanuma, N. Watanabe, and C. Marone (2018). Friction-stability-permeability evolution of a fracture in granite. *Water Resources Research*, 54, doi.org/10.1029/2018WR022598

[4] Jia, Y*., Y. Lu, J. Tang, **Y. Fang**, B. Xia, and Z. Ge. 2018. Mechanical-Chemical-Mineralogical Controls on Permeability Evolution of Shale Fractures. Geofluids, vol. 2018, DOI: 10.1155/2018/7801843

[5] Jia, Y*., Y. Lu, D. Elsworth, **Y. Fang**, and J. Tang. 2018. Surface Characteristics and Permeability Enhancement of Shale Fractures due to Water and Supercritical Carbon Dioxide Fracturing. *Journal of Petroleum Science and Engineering.* Doi: 10.1016/j.petrol.2018.02.018

[6] Zhang, F., **Y. Fang***, D. Elsworth, C. Wang, and X. Yang. 2017. Evolution of Friction and Permeability in a Propped Fracture under Shearing. *Geofluids*, vol. 2017, Article ID 206347, 13 pages, doi: 10.1155/2017/2063747

[7] Im, K*., D. Elsworth, and **Y. Fang**. 2017. The Influence of Pre-slip healing on the evolution of permeability on fractures and faults (*Submitted to GRL*)

[8] **Fang, Y*.**, D. Elsworth, and T.T. Cladouhos. 2017. Reservoir Permeability Mapping using MEQ Data. *Geothermics.* Vol 72, p. 83-100.

[9] **Fang, Y.**, C. Wang, D. Elsworth*, and T. Ishibashi. 2017. Seismicity-permeability coupling in the behavior of gas shale, CO2 storage and deep geothermal energy. *Geomech. Geophys Geo-Energ Geo-Resour*. Vol. 3, No. 2, p. 189-198.

[10] **Fang, Y*.**, D. Elsworth, C. Wang, T. Ishibashi, and J.P. Fitts. 2017. Frictional Stability-Permeability Relationships for Fractures in Shales. *J. Geophys. Res. Solid Earth*. V. 122, No. 3, p. 1760-1776

[11] Wang*, C., D. Elsworth, and **Y. Fang**. 2017. Influence of weakening minerals on ensemble strength and slip stability of faults. *J. Geophys. Res. Solid Earth*, 122, doi:10.1002/2016JB013687

[12] **Fang, Y*.**, S.M. den Hartog, D. Elsworth, C. Marone, and T.T. Cladouhos. 2015. Anomalous Distribution of MEQs in Geothermal Reservoir: Mechanisms and Implications. *Geothermics*. Vol. 63, p.62-73

[13] Li, Y*., D. Tang, **Y. Fang**, H. Xu, and Y. Meng. 2013. Distribution of Stable Carbon Isotope in Coalbed Methane from the East Margin of Ordos Basin: *Science China Earth Sciences.* V.57, No. 8, p.1741-1748