## Lei Sun

University of Houston, 234A SR1, Houston, TX 77004 <u>lsun10@uh.ed</u>	<u>u</u> 806-392-6708	
Education		
• PhD in Geology, University of Houston	GPA: 3.718 In progress	
• MS in Geology, University of Houston	GPA: 3.667 2014	
• BS in Geochemistry, University of Science and Technology of China,	GPA: 3.74/4.3 2011	
Research Experience		
PhD Dissertation: Ground-based Hyperspectral Imaging and Terrestrial Laser Scanning for Integrated		
Mineralogical and Fracture Modeling of Geological Outcrops	In progress	
Detailed mineralogical and fracture modeling of the Eagle Ford formation and	1 0	
imaging spectroscopy and terrestrial laser scanning, and perform reservoir analog analysis		
<ul> <li>MS Thesis: Remote Sensing of Hydrocarbon-induced Rock Alterations at Cement Field, Oklahoma</li> </ul>		
	08/2013~07/2014	
Identification of hydrocarbon seepages by satellite- and ground-based remote s		
hyperspectral scanning and detailed petrographic analysis of rock alterations in centimeters resolution		
• Research Assistant in Laboratory for Radiogenic Isotope Geochemistry, USTC		
Isotope Geochemistry, geochronology, Raman spectroscopy		
• Undergraduate Thesis: Phengite Rb-Sr Dating and Mineral Inclusion Study of Eclogite from the		
Taohang Area in Sulu Orogen	07/2010~06/2011	
Micro sample phengite Rb-Sr dating constraining retrograde metamorphism in		
Orogen, tracing metamorphic reaction including fluid participation in omphacite and garnet inclusions		
Teaching Experience		
Teaching Assistant, Geol 4355 Geophysical Field Camp	Summer 2016	
	ring 2016 & Spring 2015	
Teaching Assistant, Geol 6325/3383 Remote Sensing	Fall 2015 & Fall 2014	
	ring 2014 & Spring 2013	
Teaching Assistant, Geol 3370 Mineralogy	Fall 2013 & Fall 2012	
Class Projects		
• Automated Geologic Analysis of the Terrestrial Laser Scanning Point Cloud of the Eagle Ford		
Formation, CIVE 6382 Lidar Systems and Applications,	Spring 2015	
• Quantitative Petroleum Generation and Migration Analysis for Play Evaluation and Prospect Ranking,		
GEOL 6373, Petroleum Systems Analysis, Spring 2013		
• Quantitative Petroleum Generation and Volume Rank at the East Waddell Ranch Survey, GEOL 6389,		
GIS for geologists,	Spring 2013	
• Ground Water Geochemistry of Ca-SO4 Type Water in the Dakota Aquifer, GEOL 6341,		
Geochemistry,	Fall 2012	
Skills		
Remote Sensing, ArcGIS, Hyperspectral Scanning, Terrestrial Laser Scanning, ASD Spectral Analysis,		
Matlab, Petroleum System Analysis, Ultra-low Procedural Blank Chemical Analysis, Thermal		
Ionization Mass Spectrometer Analysis		
Publications		
Sun, Lei and Khan, Shuhab D. 2016. Ground-based hyperspectral remote sense	ing of hydrocarbon-	
induced rock alterations at Cement, Oklahoma. Marine and Petroleum Geology, 77:1243-1253		
<b>Conference Presentations</b>		
Ground-based Hyperspectral Remote Sensing and Terrestrial Laser Scanning of the Eagle Ford		
Formation. AAPG Annual Convention & Exhibition, Calgary, AB, Canada	2016	
Ground-based Hyperspectral Remote Sensing and Terrestrial Laser Scanning of	e e	
Formation. Gulf Coast Association of Geological Societies 65th Annual Conver	ntion, Houston, TX 2015	

Ground-based Hyperspectral Remote Sensing for Mapping Rock Alterations and Litho	logies: Case
Studies from Semail Ophiolite, Oman and Rush Springs Sandstone, Oklahoma. AGU H	Fall Meeting, San
Francisco, CA	2014
Awards	
UH Departmental Scholarship for Outstanding Academic Achievements in Geology	2015 & 2013
USTC Outstanding Student Scholarship	2010 & 2009
USTC Zhao Jiuzhang Scholarship	2008
USTC Outstanding Freshman Scholarship	2007