Yuqing Chen

Personal Info

Info :	PhD candidate in Geophysics, KAUST, Jeddah, Saudi Arabia
Advisor :	Prof. Gerard Schuster
Phone:	+966 570 890828 (Saudi)
	+505 695 0309 (USA)
email:	yuqing.chen@kaust.edu.sa
Personal Website:	yuqingchen.org
Research Emphasis	Machine Learning in Geoscience
	Seismic Imaging / Full Waveform Inversion / Reflection Waveform Inversion
	Seismic Attenuation

Education Background

2015-now **Geophysics, PhD candidate**, King Abdullah University of Science and Technology, Jeddah, Saudi Arabia

2012-2015 **Geophysics, Master** China University of Petroleum (Beijing), China

2008-2012 **Geophysics, Bachelor** China University of Petroleum (East China), China

Internship Experience

2018.6-2018.7 Internship in Los Alamos National Laboratory, New Mexico, USA
Research Focus: Suppressing Migration Artifacts using Support Vector Machine

2017.5-2017.11 Internship in Los Alamos National Laboratory, New Mexico, USA
Research Focus: Least-squares Migration with Deblurring Filters for VSP Data.

2013.10-2015.5 Internship in Research Institute of Petroleum Exploration and Development (RIPED), Petrolchina, Beijing, China
Research Focus: Full Waveform Inversion

Research Experience

2018-now | *Seismic Inversion and Machine Learning*
Multiscale Reflection Phase Inversion (2D & 3D).
Automatic Semblance Picking by a Bottom-up Clustering Method.
Suppressing Migration Artifacts by Support Vector Machine Method

2017-2018 | *Seismic Imaging and Seismic Inversion*
Image Domain Q Inversion.
Migration of Viscoacoustic Data Using Acoustic RTM with Hybrid Deblurring Filter.
3D Least-squares Migration of Ground Penetrating Radar Data.

2016-2017 | *Seismic Imaging and Seismic Attenuation*
Seismic Attenuation Modeling based on SLS Model.
Q-LSRTM with Viscoacoustic Deblurring Filter
3D Migration Deconvolution as an Inexpensive Alternative to Least-squares Migration.

2015-2016	*Interferometry*
	4D Interferometric Traveltime Tomography.

2013-2015	*Full Waveform Inversion*
	Time-domain, Mix-domain, Multiscale FWI
	Wave-equation Traveltime Inversion.
	Envelope Inversion.

CERTIFICATIONS

2018	**Name** : Neural Networks and Deep Learning
	URL : www.coursera.org/account/accomplishments/certificate/X6VD4YA5JBSX
2018	**Name** : Structuring Machine Learning Projects
	URL : www.coursera.org/account/accomplishments/verify/WA6L79KPM4P7
2018	**Name** : Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
	URL : www.coursera.org/account/accomplishments/verify/W3EV9Y62VMPA
2018	**Name** : Convolutional Neural Networks
	URL : www.coursera.org/account/accomplishments/verify/XDLU4WMDXVPA
2018	**Name** : Sequence Models
	URL : www.coursera.org/account/accomplishments/verify/667XWAT6ZTPT

SOFTWARE SKILLS

SOFTWARE:	Geoeast Seismic Data Processing Software, Seismic Unix, madagascar
CODING LANGUAGE:	Matlab, C, Fortran, python

SELECTED PUBLICATIONS

2018	**Chen Y** Automatic Semblance Picking by a Bottom-up Clustering Method, SEG MAXIMIZING ASSET VALUE THROUGH ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING WORKSHOP, Beijing, 2018
2018	**Chen Y**., Dutta G., and G.T Schuster, 2018, Image Domain Q Inversion, SEG TECHNICAL PROGRAM EXPANDED ABSTRACTS 2018.
2018	**Chen Y**., Guo B., and G.T Schuster, 2018, Migration of Viscoacoustic Data Using Acoustic RTM with Hybrid Deblurring Filter (GEOPHYSICS, IN REVIEWING).
2018	**Chen Y**., Huang Y., and Huang L, 2018, Suppressing Migration Image Artifacts Using a Support Vector Machine Method, (GJI, In Reviewing)
2017	**Chen Y**., Dutta G., Dai W., and G.T Schuster, 2017, Q-Least Squares Reverse Time Migration with Viscoacoustic Deblurring Filters, SEG TECHNICAL PROGRAM EXPANDED ABSTRACTS 2017: PP. 4417-4421.
2016	**Chen Y**., Dutta G., Dai W., and G.T Schuster, 2016, Q-Least Squares Reverse Time Migration with Viscoacoustic Deblurring Filters, GEOPHYSICS, 82(6), S425-S438.