QI HUANG

Rock Physics Lab, University of Houston,
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EDUCATION

University of Houston
PhD in Geophysics Current
China University of Geosciences
MS in Geophysics September 2009–July 2012
BS in Geophysics September 2005–July 2009

INTERNSHIP EXPERIENCES

Seismo Electronics, Houston
Position: data processor and interpreter ***July-September 2013***

- Designed and tested a processing workflow in Seislab for seismoelectric data in three projects
- Programmed in C++ to develop a processing module for depth conversion, and a software for data conversion between different platforms
- Processed the seismic data from denoising to time-depth conversion

Petroleum Geophysical Exploration Technology Research Institute, Henan Oil Field Company of SINOPEC
Position: data processor ***July-August 2011***

- Processed 2D and 3D seismic data in Paradigm Focus
- Conducted impedance inversion and model building in CGG Jason
- Studied seismic attributes extraction in Landmark SeisWorks

Handan Central Station, Hebei Seismological Bureau
Position: data analyst ***July–August 2009***

- Extracted the arrival time and the magnitude from earthquake records
- Analyzed anomalies based on data collected from the seismic precursory networks
- Established and tested the newly-built permanent seismometers in Luoyang City

RESEARCH EXPERIENCES

M-OSRP, University of Houston
Research on Wavelet Estimation Based on Green's Theorem

- Developed the algorithm for wavelet estimation in elastic media
- Investigated Green's function for a line source on the surface

Geophysical Exploration Company, Zhongyuan Oil Field Company of SINOPEC
Research on the Energy and Frequency Attenuation of Seismic Waves in the Near-Surface Strata

- Interpreted near-surface structures according to uphole survey and built corresponding models
- Utilized frequency and time-frequency methods to calculate Q-factors in near-surface layers
- Conducted forward modeling in viscoelastic near-surface structures
- Programmed in Matlab to study energy attenuation characteristic of seismic waves, and notch effect of trapped waves in different viscoelastic strata

National Basic Research Program of China
Research on Excitation Technology of Seismic Wave in Deep-water Environment

- Conducted research on extracting quality factors in time-frequency domain
- Built offshore geophysical models in Tesseral 2D
- Programmed in Fortran to simulate the propagation of wavelets in the viscoelastic strata

PROFICIENCIES

Programming Languages**:** C/C++ • Fortran • Matlab
Industry Software: Kingdom SMT • Landmark SeisWorks • CGG Jason • Paradigm Focus • Seislab • Tesseral 2D