

Yanhua Liu

Education

- **Colorado School of Mines** **Golden, USA**
PhD student in Geophysics Aug 2019
- **China University of Petroleum, East China (UPC)** **Qingdao, China**
BS in Exploration Technology and Engineering Top 1 Sep 2015
- **University of Naples Federico II** **Naples, Italy**
Geophysics six-month non-degree exchange program

Research Experience

PhD Research (Aug 2019 - Present)

Time-Lapse FWI (Potential research topic)

Undergraduate Project (Jan 2019 - Jun 2019)

- Titled “*Effect of the Fluid Saturation on Seismic Wave Velocities*”
- Working on identifying the influence of fluid saturation on seismic velocities with fluid substitution.

National Undergraduate Students' Innovation and Entrepreneurship Training Program (Oct 2017 - Apr 2019)

- Titled “*Analysis of influence of Methane content on the shale oil flow in nanopores*”
- Working on simulating oil-gas migration pathway and analyzing the micro-mechanism of the flow behavior through nanopores under the influence of the density.

Undergraduate Research Training on Seismic Inversion (Jul 2018 - Apr 2019)

- Titled “*Research on Pre-stack Seismic Inversion using Markov Chain Monte Carlo(MCMC) based on Bayes*”
- Working on wave impedance inversion of elastic wavefield using stochastic inversion algorithm (MCMC) .

Work and Training Experience

BGP **Zhuozhou, China**

- I was working with the application of compressed sensing(CS) in Seismic Exploration Jul. 2018

Awards

National Scholarship(2016&2017&2018)

- Funded by the Central People's Government of the People's Republic of China (award ratio: 0.2%)

Technical and Personal Skills

- **Programming languages:** C, Fortran, Matlab, Python
- **Seismic Analysis Environments:** Madagascar , Seismic Unix
- **Graphic Software:** Surfer, Grapher, Origin

Extra Curricular Activities

- Member , Badminton Team of UPC Sep 2017-Jun 2019