

# SHIHANG FENG

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## RESEARCH INTEREST

- Machine Learning in Seismic Interpretation
- Seismic Anisotropy Inversion
- Seismic Imaging

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## EDUCATION

**Ph.D in Geophysics**, Focus on Exploration Seismology, KAUST  
**GPA:3.42/4.0** 2015-Present

**M.S. in Geophysics**, Focus on Electromagnetic Inversion, University of Utah  
**GPA:3.70/4.0** 2012-2014

**B.S. in Geophysics**, Focus on and Well-Logging, China University of Petroleum-Beijing  
**GPA:3.06/4.0** 2008-2012

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## INTERNSHIP EXPERIENCE

**Internship**, Petrobras, Rio de Janeiro May 2018 - July 2018

- Research on multi-scale phase inversion

**Internship**, Forland Geophysics Services, Houston Jun 2017 - Sep 2017

- Research on super-virtual interferometry

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## RESEARCH EXPERIENCE

**Machine Learning** 2018-Present

- Detecting the Basalt Boundary with a Convolution Neural Network

**Seismic Imaging** 2017-Present

- Zero-Offset Sections with a Deblurring Filter in the Time Domain

**Full Waveform Inversion** 2015- Present

- Multiscale Phase Inversion of Anisotropic Data
- Anisotropic Wave-equation Traveltime and Waveform Inversion

**EM and Gravity Inversion** 2012-2014

- 3D Magnetic Induced Polarization (MIP) Forward Modeling and Inversion
- 3D Iterative Migration of Gravity and Gravity Gradiometry Data

**Well-logging** 2011-2012

- Low Signal to Noise Ratio NMR Logging Data Processing Method

**Rock Physics** 2011-2012

- The Observation of the Acoustic Characteristics with Periodic Layered Medium

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## COMPUTER SKILLS

- Fortran, Python, C, C++, Tensorflow, Matlab, Seismic Unix, Madagascar, Promax

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## PUBLICATIONS

- **Shihang Feng**, Detecting the Basalt Boundary with a Convolution Neural Network: CSIM 2018 Midyear Report
- **Shihang Feng**, Oz Yilmaz, Yuqing Chen and Gerard Schuster, 2018, Zero-Offset Sections with a Deblurring Filter in the Time Domain: Geophysics. (Submitted)
- **Shihang Feng** and Gerard Schuster, 2018, Transmission + Reflection Anisotropic Wave-equation Traveltime and Waveform Inversion: Geophysical Prospecting. (Submitted)
- **Shihang Feng**, Oz Yilmaz, Yuqing Chen and Gerard Schuster, 2018, Zero-Offset Sections with a Deblurring Filter in the Time Domain: SEG Technical Program Expanded Abstracts.
- **Shihang Feng** and Gerard Schuster, 2017, Skeletonized Wave Equation Inversion in VTI media without too much Math: Interpretation, 5(3), 1-33
- **Shihang Feng** and Gerard Schuster, 2016, Anisotropic Wave-equation Traveltime and Waveform Inversion: SEG Technical Program Expanded Abstracts: 1196-1200