

Chenlong Wang

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Education

Tongji University

PH.D. IN GEOPHYSICS

- GPA: 88/100
- Thesis: Multi-component seismic data imaging and parameters estimation
- Advisors: Prof. Jiubing Cheng and Prof. Borge Arntsen

Shanghai, China

Sep. 2011 - PRESENT

NTNU (Norwegian University of Science and Technology)

VISITING PH.D. IN APPLIED GEOPHYSICS

- Topic: elastic wave equation migration velocity analysis
- Advisors: Prof. Borge Arntsen and Prof. Bjorn Ursin

Trondheim, Norway

Sep. 2014 - Dec. 2015

Tongji University

B.S. IN APPLIED GEOPHYSICS

- GPA: 4.25/5
- Thesis: Reverse time location of micro-seismic data
- Advisors: Prof. Jiubing Cheng

Shanghai, China

Sep. 2007 - Jun. 2011

Publication

Azimuth-preserved local angle-domain prestack time migration in isotropic, vertical transversely isotropic and azimuthally anisotropic media.

< Geophysics >

CHENG, J.B., WANG, T.F., WANG, C.L., AND GENG, J.H.

2012

- Geophysics, 77(2), S51-S64. doi: 10.1190/geo2011-0295.1

Microseismic events location of surface and borehole observation with reverse time focusing using interferometry technique

< Chinese J. Geophys >

WANG, C.L., CHENG, J.B., YIN, C., ET.AL

2013

- Chinese J. Geophys, 56(9):3184-3196, doi:10.6038/cjg20130931

Simulating propagation of decoupled elastic waves using low-rank approximate mixed-domain integral operators for anisotropic media

< Geophysics >

CHENG, J.B., ALKHALIFAH, T., WU, Z.D., ZOU, P., AND WANG, C.L.

2016

- Geophysics, 81(2), T63-T77, doi: 10.1190/geo20150184.1

Scalar and vector imaging based on wave mode decoupling for elastic reverse time migration in isotropic and TI media

< Geophysics >

WANG, C.L., CHENG, J.B., AND ARNTSEN, B.

2016

- Geophysics, 81(5), S383-S398, doi:10.1190/GEO2015-0704.1

Acoustic-elastic coupled equation for ocean bottom seismic data elastic reverse time migration

< Geophysics >

YU, P.F., GENG, J.H., LI, X.B. AND WANG, C.L.

2016

- Geophysics, 81(5), S333-S345, doi:10.1190/geo2015-0535.1

Separating quasi-P-wave in transversely isotropic media with a vertical symmetry axis by synthesized pressure applied to ocean-bottom seismic data elastic reverse time migration

< Geophysics >

YU, P.F., GENG, J.H., AND WANG, C.L.

2016

- Geophysics, 81(6), C295-C307, doi:10.1190/geo2016-0108.1

Presentation

83th SEG Annual Meeting

SEPARATING WAVE-MODES OF PRESTACK ELASTIC SEISMOGRAMS USING PURE MODE WAVE PROPAGATORS IN ANISOTROPIC MEDIA

- **Chenlong Wang**, Jiubing Cheng, Wei Kang

Las Vegas, United State

Nov. 2012

2015 Lofoten Seminar

PROPAGATING DECOMPOSED ELASTIC WAVEFIELDS BY FIRST- AND SECOND-ORDER WAVE EQUATIONS USING LOW-RANK K-SPACE METHOD FOR ISOTROPIC MEDIA

- **Chenlong Wang**, Jiubing Cheng, Børge Arntsen

Svalbard, Norway

Apr. 2015

76th EAGE Conference and Exhibition

LOCAL ANGLE DOMAIN ELASTIC REVERSE TIME MIGRATION IN TI MEDIA

- **Chenlong Wang**, Jiubing Cheng, Tengfei Wang

Amsterdam, Netherland

Jun. 2014

77th EAGE Conference and Exhibition

NUMERICAL PURE WAVE SOURCE IMPLEMENTATION AND ITS APPLICATION TO ELASTIC REVERSE TIME MIGRATION IN ANISOTROPIC MEDIA

- **Chenlong Wang**, Jiubing Cheng, Børge Arntsen

Madrid, Spain

May. 2015

77th EAGE Conference and Exhibition

ELASTIC WAVE MODE DECOUPLING FOR FULL WAVEFORM INVERSION

- Tengfei Wang, Jiubing Cheng, **Chenlong Wang**

Madrid, Spain

May. 2015

The Workshop of APSWLIM

ELASTIC WAVE MODE DECOUPLING FOR SEISMIC IMAGING AND INVERSION

- Jiubing Cheng, **Chenlong Wang**, Tengfei Wang

Prague, Czech Republic

May. 2015

85th SEG Annual Meeting

IMAGING CONDITION FOR CONVERTED WAVES BASED ON DECOUPLED ELASTIC WAVE MODES

- **Chenlong Wang**, Jiubing Cheng, Børge Arntsen

New Orleans, United State

Otc. 2015

17th International Workshop on Seismic Anisotropy

VECTOR IMAGING OF THE DECOMPOSED ELASTIC WAVE MODES FOR 3D HETEROGENEOUS TI MEDIA

- **Chenlong Wang**, Jiubing Cheng

Austin, United States

June. 2016

79th EAGE Conference and Exhibition

3D VECTOR IMAGING OF CONVERTED WAVES FOR FRACTURED RESERVOIRS

- **Chenlong Wang**, Jiubing Cheng, Wiktor W. Weibull

Paris, France

June. 2017

79th EAGE Conference and Exhibition

AUTOMATIC SHEAR-WAVE VELOCITY ANALYSIS WITH ELASTIC REVERSE TIME MIGRATION

- **Chenlong Wang**, Wiktor W. Weibull, Jiubing Cheng, Børge Arntsen

Paris, France

June. 2017

79th EAGE Conference and Exhibition

PS SEPARATION OF MULTI-COMPONENT SEISMOGRAM RECORDED IN ANISOTROPIC MEDIA

- **Chenlong Wang**, Jiubing Cheng

Paris, France

June. 2017

79th EAGE Conference and Exhibition

ELASTIC WAVEEQUATION REFLECTION TRAVELTIME INVERSION USING DYNAMIC WARPING AND WAVE MODE DECOMPOSITION

- Tengfei Wang, Jiubing Cheng, Qiang Guo and **Chenlong Wang**

Paris, France

June. 2017

Internship

Physical Geology Investigation

IT PROVIDES US FUNDAMENTAL PERCEPTION ABOUT PHYSICAL GEOLOGY.

Qinghuangdao, China

Aug 2009

Geophysical Investigation in Chongming Island

THIS INTERNSHIP GAVE US AN OPPORTUNITY TO USE THE BASIC GEOPHYSICAL APPARATUS, WHICH INCLUDE ELECTRONIC, SEISMIC AND MAGNETIC SURVEY.

Shanghai, China

Jun 2010

PYREX 5 days field trip

THIS INTERNSHIP SHOWED US THE BASIC CONCEPTS OF PETROLEUM GEOLOGY. IT CONTAINS PLENTY OF OUTCROPS IN DIFFERENT PARTS OF A BASIN.

Barcelona, Spain

Otc 2014

Skills

Seismic	Elastic wave simulation, multi-component imaging, velocity inversion, seismic data processing
Programming	Linux, C/C++, Fortran, Matlab, Python, SConstruct, Shell, Vim, LaTeX, Git, Subversion
Seismic related software	Madagascar, Seismic Unix, Promax
Languages	Chinese (mother tongue), English (intermediate)
Web	Jekyll, CSS, HTML