

Chenlong Wang

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Research interests

Ph.D candidate works on seismic wave propagation, elastic wave imaging, velocity inversion, geophysical computing and high performance computing.

Education

- 2011-2017** **Ph.D. in Geophysics** School of ocean and earth science, Tongji university, Shanghai
▷ GPA :4.55/5.
- 2007-2011** **Bachelor in Geophysics** School of ocean and earth science, Tongji university, Shanghai
▷ GPA :4.25/5.

Experience

- 2016.10-11** **Computational Geophysicist** Bureau of Geophysical prospecting INC. CNPC. Hebei, China
▷ Internship, generation of 2D acoustic/elastic imaging with walk-away vsp data (with vice chief engineer Yanpeng Li).
- 2014-2015** **Visiting Ph.D. in Geophysics** Norwegian university of science and technology, Norway
▷ generation of 3D elastic imaging and 2D wave equation migration velocity analysis (with Prof. Børge Arntsen and Assistant Prof. Wiktor Weibull).
- 2014.11-11** **Geophysicist** Pyrenees field trip, Barcelona, Spain
▷ Internship, identification of outcrops and petroleum geology features in different basins (with Prof. Josep Anton).
- 2012.9-10** **Computational Geophysicist** CNPC Chuanqing drilling engineering Co., Sichuan, China
▷ Internship, estimation of micro-seismic location with real perforation data (with engineer Cheng Yin).

Computer skills

- Github** www.github.com/chenlonw
- Languages** C/C++, Python, Matlab, Fortran, Shell
- Web** Jekyll, Markdown, CSS, HTML
- Platforms** Madagascar, Seismic Unix

Publications

Peer-reviewed articles (in preparation)

- 2017** **Wang C.L.**, Weibull W.W., Cheng J.B., and Arntsen B. Converted-wave extended images for shear velocity estimation with wave mode decoupling. **Geophysics**, in preparation.
- 2017** **Wang C.L.** and Cheng J.B.. P/S wave mode separation of multi-component seismogram in anisotropic media. **Geophysical prospecting**, in preparation.
- 2017** **Wang C.L.**, Cheng J.B., Weibull W.W. and Arntsen B. 3D angle domain vector imaging in anisotropic media. **Geophysical prospecting**, in preparation.

Peer-reviewed articles (published)

- 2016** **Wang C.L.**, Cheng J.B., and Arntsen B. Scalar and vector imaging based on wave mode decoupling for elastic reverse time migration in isotropic and TI media. **Geophysics**, 81(5), S383-S398, doi :10.1190/GEO2015-0704.1

- 2016 Yu P.F., Geng J.H., and **Wang C.L.**. 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*, 81(6) C295-C307, doi :10.1190/geo2016-0108.1
- 2016 Yu P.F., Geng J.H., Li X.B. and **Wang C.L.** Acoustic-elastic coupled equation for ocean bottom seismic data elastic reverse time migration. *Geophysics*, 81(5), S333-S345, doi :10.1190/geo2015-0535.1
- 2016 Cheng J.B., Alkhalifah T., Wu Z.D., Zou P. and **Wang C.L.**. Simulating propagation of decoupled elastic waves using low-rank approximate mixed-domain integral operators for anisotropic media. *Geophysics*, 81(2), T63-T77, doi : 10.1190/geo20150184.1
- 2013 **Wang C.L.**, Cheng J.B., Yin C. and Liu H. Microseismic events location of surface and borehole observation with reverse time focusing using interferometry technique. *Chinese J. of Geophys*, 56(9) :3184-3196, doi :10.6038/cjg20130931
- 2012 Cheng J.B., Wang T.F., **Wang C.L.**, and Geng J.H. Azimuth-preserved local angle-domain prestack time migration in isotropic, vertical transversely isotropic and azimuthally anisotropic media. *Geophysics*, 77(2), S51-S64. doi : 10.1190/geo2011-0295.1

Peer-reviewed abstracts

- 2017 **Wang C.L.**, Cheng J.B., Weibull W.W. and Arntsen B. Analysis of converted-wave extended images for shear velocity estimation with wave mode decoupling, 87th SEG Technical Program Expanded Abstracts, Houston, United States.
- 2017 Wang T.F., Cheng J.B., Guo Q. and **Wang C.L.**, Elastic wave equation reflection travelttime inversion using dynamic warping and wave mode decomposition. 79th EAGE Conference and Exhibition, Paris, France.
- 2017 **Wang C.L.**, Cheng J.B., P/S separation of multi-component seismogram recorded in anisotropic media. 79th EAGE Conference and Exhibition, Paris, France.
- 2017 **Wang C.L.**, Weibull W.W., Cheng J.B., and Arntsen B., Automatic shear-wave velocity analysis with elastic reverse time migration. 79th EAGE Conference and Exhibition, Paris, France.
- 2017 **Wang C.L.**, Cheng J.B., and Weibull W.W., 3D vector imaging of converted waves for fractured reservoirs. 79th EAGE Conference and Exhibition, Paris, France.
- 2015 **Wang C.L.**, Cheng J.B., and Arntsen B. Imaging condition for converted waves based on decoupled elastic wave modes. 85th SEG Technical Program Expanded Abstracts, New Orleans, United States.
- 2015 Wang T.F. Cheng J.B. and **Wang C.L.**. Elastic wave mode decoupling for full waveform inversion. 77th EAGE Conference and Exhibition, Madrid, Spain.
- 2015 **Wang C.L.** Cheng J.B. and Arntsen B. Numerical pure wave source implementation and its application to elastic reverse time migration in anisotropic media. 77th EAGE Conference and Exhibition, Madrid, Spain.
- 2014 **Wang C.L.** Cheng J.B. and Wang T.F. Local angle domain elastic reverse time migration in TI media. 76th EAGE Conference and Exhibition, Amsterdam, The Netherlands.
- 2014 **Wang C.L.** Cheng J.B. and Wang T.F. Local angle domain elastic reverse time migration in anisotropic media. SPG/SEG International Geophysical Conference, Beijing, China.

