

Lingxiao Jia

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EDUCATION

- **Ph.D. candidate in Geophysics** **University of Wyoming** **09/2015-05/2020 (Expected)**
 - Minor in Computer Science.
 - GPA: 4.0/4.0 ○ Advisor: Dr. Subhashis Mallick
 - Coursework: seismic wave propagation, petroleum geology, rock mechanics, high performance computing, computation methods, machine learning.
- **Visiting Undergraduate Student** **Missouri University of S&T** **01/2015-06/2015**
 - Undergraduate research on Gaussian beam migration, sponsored by China Scholarship Council (CSC).
- **B.E. in Exploration Geophysics** **China University of Petroleum** **09/2011-07/2015**
 - GPA: 3.85/4.0 ○ Rank in Major: 2/154
 - Thesis: *Gaussian beam inverse time migration in anisotropic media.*

PROFESSIONAL EXPERIENCE

- **Research Assistant, University of Wyoming, Laramie, WY** **09/2015-Present**
 - Developed a 2D finite-element reverse time migration (RTM) scheme with novel imaging condition and applied it on both synthetic and real datasets; the scheme imaged the edges of salt dome clearly.
 - Proposed a joint prestack waveform inversion and reverse time migration workflow that allows an automatic model update in an iterative manner to produce accurate depth images and elastic depth models.
 - Imaged the Bottom Simulating Reflectors and the subducting slab clearly for the Cascadia Subduction Zone dataset.
- **AAPG 'Imperial Barrel Awards', University of Wyoming Team, Laramie, WY** **01/2016-03/2016**
 - Conducted well-seismic ties with the Petrel software, picked 3D horizons, and performed time-to-depth conversion.
 - Conducted seismic inversion of a 3D volume with the Hampson-Russell software, and acquired density, velocity and porosity volumes.
 - Interpreted both 3D seismic data and well-log data, corroborated by geological models, and proposed 3 prospects.
- **Undergraduate Research, China University of Petroleum, Qingdao, China** **09/2014-07/2015**
 - Developed a Gaussian beam inverse time migration scheme in anisotropic media and packaged it into a software.
 - Analyzed the influence of different factors on the forward modeling results of thin sand-shale interbed and analyzed the corresponding reflection characteristics.

AWARDS & SCHOLARSHIPS

- SEG/ExxonMobil Student Education Program (SEP) Travel Grant, 2017
- SEG/Earl D. and Reba C. Griffin Memorial Scholarships, 2017
- McMurry Fellowship in Energy, 2016 & 2017
- Chevron Conference Scholarship, 2016 & 2017
- Conoco Geophysics Scholarship, 2016
- Wyoming Geological ASSN Scholarship, 2016

SKILLS & SOFTWARE

- Programming Languages: C, C++, Fortran, MATLAB.
- Platform: Linux, Unix, Windows.
- Software: Hampson Russell, Petrel, Omega, Qt Creator.
- Memberships: SEG/EAGE/AAPG/AGU member

PUBLICATIONS (available upon request)

- **Lingxiao Jia¹**, Subhashis Mallick, Steven Holbrook, and Will Fortin, 2017, Joint prestack waveform inversion and acoustic reverse time migration, 87th Annual International Meeting, SEG Expanded Abstract.
- **Lingxiao Jia¹**, Subhashis Mallick, 2017, Acoustic Reverse Time Migration of the Cascadia Subduction Zone Dataset, AGU 2017 Fall Meeting Abstract.
- Jianping Huang, Maolin Yuan, Qing Zhang, **Lingxiao Jia⁴**, Zhenchun Li, et al., 2016, Reverse time migration with elastodynamic Gaussian beams, Journal of Earth Science, 1-8.
- Yutong Han, Jianping Huang, Zhenchun Li, and **Lingxiao Jia⁴**, 2015, Acoustic full waveform inversion method research in areas with a rugged surface, 85th Annual International Meeting, SEG Expanded Abstract, 1356-1360.
- Xiao Li, Tao Wu, **Lingxiao Jia³**, Fei Xie, Lei Yang, 2014, Research on Surface-related Multiple Elimination Based on Feedback Iteration Method, China Unified Geological Sciences Annual Conference.
- Maolin Yuan, Jianping Huang, **Lingxiao Jia³**, Zhenchun Li, et al, 2014, Implementation of Gaussian-Beam Based Demigration and Its Adjoint Operator, Electronic Journal of Geotechnical Engineering.

UNIVERSITY SERVICE

- IT director of US-China Innovation and Entrepreneurship Forum, University of Wyoming (2017)
- Volunteer in the Wyoming State Science Fair (WSSF) at University of Wyoming (2017)
- Volunteer in student chapter in the STEM activity for high school students at University of Wyoming (2017)
- Volunteer in the Rocky Mountain Rendezvous at University of Wyoming (2015)