

YANJUN HAO

Geophysicist & Geologist

Center for Earthquake Research and Information
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SUMMARY

- ❖ Resourceful geophysicist enthusiastic in innovative solutions and circumspective problem-shooting methods, keen on applying knowledge in explorations, data processings and analyses, etc.
- ❖ Adventurous geologist with high curiosity and adamant will, love field works and excel in completely perceive and manage projects with prominent communication skill and conclusive leadership.

EDUCATION

- ❖ Doctor of Philosophy in Earth Sciences, major in Geophysics & Seismology GPA: 3.86
Center for Earthquake Research and Information The University of Memphis, TN 8/2010-present
Major advisor: Dr. Maria Beatrice Magnani
Research interests: Exploration Seismology, Intraplate Earthquakes, Structural Seismology, Signal Processing in Geophysics, 3D Velocity Structure and Tomography.
Dissertation proposal: Quaternary Deformation in the Mississippi Embayment as Revealed by High-Resolution Seismic Reflection Data
- ❖ Master of Science major in Solid Earth Geophysics GPA: 84/100
Institute of Crustal Dynamics China Earthquake Administration Beijing, China 7/2008-6/2010
Graduate University of Chinese Academy of Sciences Beijing, China 9/2007-6/2008
Major advisor: Dr. Baoqi Ma
Thesis: Research of Late Quaternary Activity of Wulashan Piedmont Fault
Description: This research was carried out to characterize the history of Quaternary deformation of the Wulashan piedmont fault in the north of Ordos, China. Quaternary activity parameters of the fault were acquired through field explorations, measurements, and laboratorial analyses, including: measurement and dating of river terraces, geological profiles, piedmont diluvial fans and fault scarps, trenching and dating of paleoearthquakes, and geomorphology analysis.
- ❖ Bachelor of Science major in Resources, Environment & Urban Planning Management GPA: 4.3/5
Guilin University of Technology Guangxi, China 9/2003-6/2007
Thesis advisor: Dr. Guilin Zhang
Thesis: Geological Characteristics of Naping Pb-Zn(Ag) Polymetallic Orefield in Baise, Guangxi Province
Description: This study investigated the geological background of a Pb-Zn(Ag) polymetallic orefield in Beise, China, analyzed the process of mineralization which involved both hydrothermal and laminating procedures, summarized the principle of mineralization, and evaluated the potential production of the ores.

COMPUTER SKILLS

Windows, Mac OS, UNIX, Linux;

Landmark ProMAX, Matlab, GMT, Antelope, XPICK, Maple, Surfer, ArcGIS, Mapinfo, MapGIS, PCI; Adobe Illustrator, Photoshop, CorelDraw, Dreamweaver, Flash, Microsoft Office, etc.

AWARDS & POSITIONS

President of the University of Memphis SEG Student Chapter, 2012-2013 term.

Outstanding Student Paper Awards at the 2011 AGU Fall Meeting, *Eos*, 93(30), 6/2012.

Student member: AGU, SSA, SEG.



PROFESSIONAL TRAININGS & DEVELOPMENTS

- ❖ PhD
 - Field Work for Investigation of Holocene Liquefactions in south Arkansas 09/2012
 - ExxonMobil "Integrated Basin and Play Analysis", AAPG/SEG Student Expo, Houston 09/2011
 - Data Acquisition for the Marine Seismic Experiment on the Mississippi River 07/2011
 - Field Work of Servicing the PANDA Seismic Stations in New Madrid Area 07/2011
 - SSA Field Trip "Taking a New Look at the New Madrid Seismic Zone" 04/2011
 - Field Excursion of the EarthScope Workshop in New Madrid Area 03/2011
 - Teaching Assistant for the EarthScope Workshop at U. of Memphis 03/2011
 - Field Work of Servicing the PANDA Seismic Stations in New Madrid Area 02/2011
 - Land Seismic Reflection Survey of the Meeman-Shelby Fault 09/2010
- ❖ MS
 - Activity Research of Wulashan Piedmont Fault, Inner Mongolian 11/2009
 - Quaternary Activity Research of Northern Yuanmou Fault, Yunnan Province 10/2009
 - Field Trip for General Geology & Seismology Study, Zhoukoudian, Beijing 08/2009
 - Crustal Stability Research of Changdu Region, Eastern Tibet 07/2009
 - Earthquake Hazard Estimate of Beijing-Shenyang Railway 05/2009
 - Earthquake Hazard Estimate of Lezhi-Hongya Freeway, Sichuan 10/2008
 - Quaternary Activity Research of Manhanshan Fault, Inner Mongolia 09/2008
 - RTK Measurement of Earth Deformation Using InSAR Technique, Beijing 08/2008
 - Earthquake Hazard Evaluation for Xijiang Bridge, Guangdong Province 08/2008
 - Surface Rupture & Hazard Survey of Wenchuan Ms8.0 Earthquake, Sichuan 06/2008
 - Field Excursion of General Geology in Mentougou, Beijing 11/2007
 - Field Excursion of Geomorphology in Western Mountain, Beijing 10/2007

PUBLICATIONS

- ❖ PhD
 - Hao, Y., M. B. Magnani, L. Guo, et al. (2012), High-Resolution Marine and Land Seismic Reflection Imaging of the Meeman-Shelby Fault, near Memphis, Tennessee, *Tectonics*, in press.
 - Magnani, M. B., K. McIntosh, L. Guo, Y. Hao (2012), Distribution of long-term Quaternary deformation and correlation with pre-existing tectonic structures in the Central US, in press.
 - Hao, Y., M. B. Magnani, L. Guo, et al. (2011), Characterizing the geometry and history of deformation of the Meeman-Shelby fault (Central U.S.), *Seismological Research Letters*, 82, 328.
- ❖ MS
 - Hao, Y., Z. He, J. Wang, et al. (2009), Basic Steps to Extract Tectonic Geomorphologic Information Using Google Earth, *Northwestern Seismological Journal*.
 - Hou, Z., N. Zhong, Y. Hao, et al. (2011), Detecting Nankou-Sunhe Buried Fault by High Density Resistivity Method, *Journal of Institute of Disaster-Prevention Science and Technology*, 13(1).
- ❖ BS
 - Hao, Y., S. Feng, X. Ying, et al. (2006), Establishment of Visible Student Information System Based on ArcView GIS in the Department of Resources and Environmental Engineering, *Guilin University of Technology university archived paper*.

COURSES

Data analysis in Geophysics, Global Seismology, Signal Processing in Earth Sciences, Independent Study of Seismic Data Processing, Inverse Methods in Geophysics, Exploration Seismology (with lab), Global Geophysics, Seminar in Seismology, Intermediate Seismology, Intraplate Faults and Earthquakes, Structural Interpretation of Seismic Data, Independent Study of Paleoseismology.

