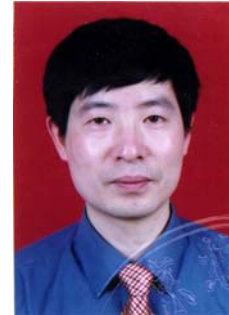


Minqiang Zhu

Address in USA (begin on 9/20/2005):

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Education

Ph.D.

Study in: Research Center of Aerial Photography and Remote Sensing, Beijing Research Institute of Uranium Geology, Beijing, China. 1999 - 2002. Supervisor: Liu Dechang

Dissertation: Multi-source Information Integration Techniques of Sandstone-type Uranium Deposits Exploration Based on GIS in Ordos Basin. Committee Chairman: Du Letian

Major: Minerals Investigation and Exploration

M.S.

Study in: Department of Geology, East China Geological Institute, Fuzhou, Jiangxi, China. 1988 - 1991. Supervisor: Kan Zili.

Thesis: Characteristics of Uranium Metallotects in the Middle Part of Miaoershan Granitic Batholith. Committee Chairman: Yang Minguei.

Major: Structural Geology

B.S.

Study in: Department of Geology, East China Geological Institute, Fuzhou, Jiangxi, China. 1981 - 1985

Thesis: Characteristics of Erupted Breccia of No.681 Uranium Deposit in Zhejiang Province. Advisor: Li Deheng

Major: Uranium Geology and Exploration

Academic Experiences

- | | |
|-------------------------|---|
| Jun., 2005 - Today | Professor
Faculty of Geoscience and Surveying Engineering
East China Institute of Technology
Fuzhou, Jiangxi, China |
| Dec., 2003 – Jun., 2005 | Professor
Department of Geoscience and Geo-information
East China Institute of Technology
Fuzhou, Jiangxi, China |
| Oct., 1998 - Nov., 2003 | Associate Professor
Department of Geoscience
East China Geological Institute
Fuzhou, Jiangxi, China |
| Jul., 1992 - Sep., 1998 | Instructor
Department of Geoscience
East China Geological Institute
Fuzhou, Jiangxi, China |
| Jul., 1986 - Jun., 1992 | Assistant
Department of Geoscience
East China Geological Institute
Fuzhou, Jiangxi, China |

Academic Management

- | | |
|-------------------------|--|
| Dec., 2004 - Today | Director
Digital Land Key Lab of Jiangxi Province
Research Center of GIS and RS
East China Institute of Technology
Fuzhou, Jiangxi, China |
| Jul., 2002 - Dec., 2004 | Deputy Director
Research Center of GIS and RS
East China Institute of Technology
Fuzhou, Jiangxi, China |
| Apr., 1999 - Jul., 2002 | Director
Laboratory of Resource and Environment |

- Department of Geoscience
East China Geological Institute
Fuzhou, Jiangxi, China
- Oct., 1997 - Apr., 1999 **Deputy Director**
Teaching and research Group of Geology
Department of Geoscience
East China Geological Institute
Fuzhou, Jiangxi, China
- Oct., 1991 - Jul., 1995 **Technique Manager**
Institute of Engineering Geology Prospecting
East China Geological Institute
Fuzhou, Jiangxi, China

Professional Affairs and Memberships

- 2004, Standing Committee Member of Remote sensing Association of Jiangxi Province, China
- 2004, Expert Committee Member of Science & Technology Award, Science & Technology Department of Jiangxi Province, China
- 2004, Expert Consultant of Science & Technology Project, Science & Technology Department of Jiangxi Province, China
- 2001, Editor Committee Member of Journal of East China Institute of Technology (Journal of East China Geological Institute)
- 2002, Member of Remote Sensing Application Association of China
- 2002, Member of Geographic Information System Association of China
- 2000, Expert Committee Member of Construction Project Tender of Jiangxi Province, China
- 1998, Supervision Engineer, Supervision Consultant Limited Company, Fuzhou, Jiangxi, China

Courses Offered to Undergraduate

- Remote Sensing Technology and Application (2000-2005)
- Principle of Geographic Information System (2000-2005)
- Structure Geology (1986-2001)
- Engineering Geology Prospecting (1991-1998)

Field Mapping of Geology (1986-1998)

Courses Offered to Graduate

Digital Image Processing of Remote Sensing (2000-2005)

Geographic Information System Application (2000-2005)

Geo-information Technology (2001-2005)

Engineering Geology (1997-1998)

Computer and Software Skills

- * **Windows NT 4.0®/Windows 2000®/XP:** system administration, network essential, TCP/IP planning, Internet information system.
- * **Microsoft Office:** Microsoft ® Word, Microsoft ® Excel, Microsoft ® Access, Microsoft ® FrontPage, Microsoft ® PowerPoint
- * **Geographical Information System Software:** MapInfor®7.0, ArcView®3.2, ArcGis®8.3, MapGis®6.5, Able® R2V
- * **Remote Sensing Digital Image Processing:** ERDAS Imagine® 8.6, ENVI® 4.0, PCI 6.0
- * **Graphic and Image Processing:** Adobe® Photoshop7.0, Surfer® 8.0

Honors and Awards

2004, State Scholarship Fund Award, China Scholarship Council, China

2004, Outstanding Member of Teaching and Research in College, awarded by Education Committee of Jiangxi Province, China

2004, Rank 2 Prize of Teaching Research of Higher Education, awarded by Education Committee of Jiangxi Province, China, for research project: *Cases Research of Resources Information System Exploitation*

2003, Excellent Research Award, China National Nuclear Corporation (CNNC), for research project: *Aeroradiometric, Landsat TM and SAR Data Integration Techniques Application to Predict Sandstone-type Uranium Mineralization Areas*

2002, Excellent Ph.D. Dissertation Award, Beijing Research Institute of Uranium Geology, for Ph.D. dissertation: *Multi-source Information Integration for*

Sandstone-type Uranium Deposits Exploration Based on GIS in Ordos Basin

- 2002**, Excellent Research Award, China National Nuclear Corporation, for research project: *Depositional System of Zhiluo Formation (J_{2z}) and Uranium Mineralization in Northern Ordos Basin*
- 2001**, Excellent Research Award, China National Nuclear Corporation, for research project: *Depositional Systems Analysis and Multi-source information Integration for Sandstone-type Uranium Deposit Exploration in Bayantala Basin*
- 2001**, Excellent Paper Award, Thirteenth China Remote Sensing Techniques Meeting Committee, for paper: *Identifying the Tectonic Evolution Information of Bayantala Basin by Remote Sensing*
- 1998**, College Excellent Courses Award, Education Committee of Jiangxi Province, China, for the teaching course: *Structure Geology*
- 1996**, Excellent Teacher Award of East China Geological Institute, China
- 1993**, Excellent Teacher Award of East China Geological Institute, China

Sponsored Research Projects

- 2005-2006**, Remote Sensing Detect the Depositional System of Gan River Delta, sponsored by Education Committee of Jiangxi Province, China. (20,000¥). (in studying)
- 2004–2006**, Reflection Spectra Collect and Mineral Composition of Altered Rocks of Typical Granite-host Uranium Deposits in Southern China, sponsored by Beijing Research Institute of Uranium Geology, China. (120,000¥). (in studying)
- 2001–2005**, Predict Uranium Mineralization Districts Using Hyperspectral Remote Sensing and Construct Digital Exploration District, sponsored by China National Nuclear Corporation, China. (400,000¥). (in studying)
- 2004-2005**, Multi-source Information Integration Techniques for Sandstone-type Uranium Deposits Exploration in Southern Ordos Basin, sponsored by China

- National Nuclear Corporation, China. (120,000 ¥). (in studying)
- 2002-2003**, *Sedimentary Characteristics of Zhiluo Formation (J_2z) and Uranium Mineralization in Southern Ordos Basin*, sponsored by China National Nuclear Corporation, China. (120,000 ¥)
- 2001-2002**, *Remote Sensing Geology Investigation in Dongsheng Area of Ordos Basin*, sponsored by China National Nuclear Corporation, China. (120,000 ¥)
- 2000-2001**, *Depositional System Analysis and Multi-source Information Integration for Sandstone-type Uranium Deposits Exploration in Bayantala Basin* (DK 200026), sponsored by China National Nuclear Corporation, China. (100,000 ¥)
- 2000-2001**, *Multi-source Information Fusion Techniques for Sandstone-type Uranium Deposits Exploration in Basin*, sponsored by Fund of Minerals Quantitative Predicting and Prospecting Open Laboratory, The Ministry of Land and Resources, China. (7000 ¥)
- 1998-2000**, *Recent Developments and Perspectives of Engineering Structure Geology*, sponsored by Education Committee of Jiangxi Province, China.

Participated Research Projects

- 2005-2006**, *Exploration Techniques and Prospecting for Sandstone-type Uranium Ore Deposit in Ordos Basin*, sponsored by International Atomic Energy Agency (IAEA), Vienna, Austria. (233,688 US\$). (in studying)
- 2003-2005**, *Depositional System of Zhidan Group (K_1z) and Uranium Mineralization in Northern Ordos Basin*, sponsored by China National Nuclear Corporation. (170,000 ¥). (in studying)
- 2002-2003**, *Characteristics of Sand Bodies Host in Zhiluo Formation (J_2z) in Dongsheng District of Ordos Basin*, sponsored by China National Nuclear Corporation, China. (70,000 ¥).
- 2002-2003**, *Geographic Information System Frame of Uranium Mineral Resources of China*, sponsored by President Fund of East China Institute of Technology, Fuzhou, China. (20,000 ¥).

2001-2002, *Aeroradiometric, Landsat TM and SAR Data Integration Techniques Application to Predict Sandstone-type Uranium Mineralization Areas*, sponsored by China National Nuclear Corporation, China. (110,000 ¥).

2001-2002, *Depositional System of Zhiluo Formation (J₂z) and Uranium Mineralization in Northern Ordos Basin*, sponsored by China National Nuclear Corporation, China. (170,000 ¥).

1999-2000, *Select Stratagem District for In-site-leach Sandstone-type Uranium Ore Deposits Exploration in a New Order*, sponsored by China National Nuclear Corporation, China. (700,000 ¥)

Publication List: (1994 - Today)

A. Referred Journal Paper

1. **Zhu Min-qiang**, Zhou Wanpeng, Wu Rengui et al. Cultivated Land Information Extraction from Landsat TM Images on Central Jiangxi Hill Region [J]. *Remote Sensing Technology and Application*, 2004, 19 (3): 173-176. (in Chinese)
2. **Zhu Minqiang**, Wu Renguei, Yu Dagan et al. Alteration Characteristics of Sandstone-type Uranium Mineralization in Bayantala Basin, Inner Mongolian Autonomous Region [J]. *Uranium Geology*, 2004, 20 (4): 205-212. (in Chinese)
3. **Zhu Minqiang**, Wu Renguei, Yu Dagan et al. Characteristics of Uranium Mineralization and Depositional System of Host Sediments, Bayantala Basin, Inner Mongolia Autonomous Region [J]. *Journal of East China Geological Institute*, 2003, 26 (3): 208-216. (in Chinese)
4. **Zhu Minqiang**, Yu Dagan, Wu Renguei, Zhao Yingjun. Structures and Uranium Metallization Research Using Remote Sensing in Bayantala Basin [J]. *Remote Sensing for Land and Resources*, 2002, 51 (1): 9-14. (in Chinese)
5. **Zhu Minqiang**, Gao Yongguang, Lv Kaiyun. Expert Model to Extract Water and Soil Loss Areas on Landsat TM Imagery in Fuzhou [J]. *Journal of East China Geological Institute*, 2002, 25 (3): 187-189. (in Chinese)
6. **Zhu Minqiang**, Wu Renguei, Yu Dagan et al. Alteration Characteristics of Basal-channel-type Sandstone Uranium Deposit in Bayantala Basin [J]. *Mineral Deposit*, 2002, 21: 897-900. (in Chinese)
7. **Zhu Minqiang**, Kan Zili, Wang Lemin. Geochemical Characteristics of Metallogenic Fluid in Uranium Deposit No.3110 [J]. *Journal of East China Geological Institute*, 1998, 21 (1): 20-27. (in Chinese)
8. **Zhu Minqiang**, Zhou Lilin, Kang Zili. Application of the Grey Correlative Analysis to Predict Uranium Mineralization Faults in Middle Miaoershan Intrusive Mass [J]. *Journal of East China Geological Institute*, 1996, 19 (3):

- 242-246. (in Chinese). [INIS ATOMINDEX, 1997, 28 (8), IAEA, Vienna.]
9. **Zhu Minqiang**, Luo Dinggui. Fuzzy Decision to Optimize Foundation Bearing Layers Selection [J]. Site Investigation Science and Technology, 1996, (3): 13-15. (in Chinese)
 10. **Zhu Minqiang**, Lin Yingshan, Kang Zili. Tectonic Stress History and the Relationship with Uranium Mineralization in Shenchong Area [J]. Journal of East China Geological Institute, 1996, 19 (1): 14-19. (in Chinese)
 11. **Zhu Minqiang**, Kang Zili. Teaching Experiences of Field Mapping in Jiangshan [J]. Higher Education Study of Geology, 1994, (3-4): 75-77. (in Chinese)
 12. Zhou Wanpeng, **Zhu Minqiang**, Wu Rengui et al. Classification Accuracy Evaluate of Land Cover Based on Multi-spectral and Panchromatic Fusion of ETM Data [J]. Journal of East China Institute of Technology, 2004, 28 (4): 333-340. (in Chinese)
 13. Gao Yongguang, **Zhu Minqiang**, Zhu Ji, Liu Shuai. Expert Model to Extract Residential Areas on Landsat TM Imagery in Red Earth Region of Jiangxi [J]. Remote Sensing for Land & Resources, 2002, 54 (4): 67-69. (in Chinese)
 14. Zhu Ji, **Zhu Minqiang**, Gao Yongguang et al. Expert Classification Method of Forest in the East of Jiangxi [J]. Journal of East China Geological Institute, 2002, 25 (4): 308-313. (in Chinese)
 15. Zhang Zhanshi, **Zhu Minqiang**. Geochemical Evidence of Sedimentary Exhalation Mineralization of Yongping Copper Deposit [J]. Mineral Deposit, 2002, 21: 545-547. (in Chinese)
 16. Kang Zili, **Zhu Minqiang**. Suggestions and Comments for Modern Geology Education [J]. Higher Education Study of Geology, 1997, (3-4): 9-13. (in Chinese)
 17. Wu Rengui, Yu Dagan, **Zhu Minqiang**. Characteristics and Comparison of the Early Cretaceous Stratum in Northern Ordos Basin [J]. Journal of Stratigraphy, 2005, 29 (1). (in Chinese)
 18. Ge Benfeng, Yu Dagan, **Zhu Minqiang**. Spatial and Temporal Changes of Soil Erosion in Chongren Drainage Area [J]. Journal of East China Institute of Technology, 2004, 27 (4): 240-244. (in Chinese)
 19. Liu Linqing, Yu Yunxiang, **Zhu Minqiang**. Evaluate the Impacts of Shulehe Fault on the Nuclear Waste Disposal Site of Beisan by Remote Sensing [J]. Remote Sensing Technology and Application, 2000, 15 (3): 165-169. (in Chinese)
 20. Kang Zili, Liu Haiying, **Zhu Minqiang**. The Division and Characteristics of Uranium Metallo-genetic Belts in Southeast Geodepression(Diwa) Region of China [J]. Geotectonica et Metallogenia, 1994, 18(3-4): 52-53.
 21. Kang Zili, Wu Weicheng, **Zhu Minqiang**. Tectonic Geochemical Characteristics of Xinzi Fault Belt [J]. Uranium Geology, 1991,7 (3): 137-145. (in Chinese)
 22. Wu Rengui, Chen Anpin, Yu Dagan, **Zhu Minqiang**. Depositional System of Zhiluo Formation (J₂z) and Basal-channel-type Sandstone-type Uranium Mineralization [J]. Uranium Geology, 2003, 19 (2): 94-99. (in Chinese)
 23. Kang Zili, Hou Manping, Cai Yuan, **Zhu Minqiang**. Tectonic Characteristics and Metallogenic Model of Uranium Deposit No.3110 in South China [J].

B. Colloquium or Memoir

24. **Zhu Minqiang**, Wu Renguei, Yu Dagan et al. Characteristics of Uranium Mineralization and Depositional System of Host Sediments, Bayantala Basin, Inner Mongolia Autonomous Region [A]. Proceeding of Technical Meeting of Recent Developments in Uranium Resources and Production with Emphasis on In Situ Leach Mining, Beijing, China, Sep.18 – 22, 2002. IAEA-TECDOC-1396. International Atomic Energy Agency, Vienna, Austria. 2004. 47-58.
25. **Zhu Minqiang**, Wu Renguei, Yu Dagan et al. Geologic Characteristics of Sandstone-type Uranium Deposits and Depositional System of the Host Sediments , Byantala Basin, Inner Mongolia Autonomous Region [A]. Sandstone-type Uranium Deposits in China [C]. Beijing: Atomic Energy Press, 2002. 98-109.
26. **Zhu Minqiang**, Yu Dagan, Wu Renguei. Using Remote Sensing to Identify the Tectonic Evolution Information of Bayantala Basin [C]. Proceedings of Thirteenth China Remote Sensing Techniques Meeting. 2001. Fuzhou, China. (in Chinese)
27. **Zhu Minqiang**, Wu Renguei, Yu Dagan. Depositional System and Sandstone -type Uranium Mineralization Prospecting of Bayantala Basin [A]. Zhou Wenbin, Yu Dagan. Achievements and expectations for Nuclear Resource and Environment [M]. Beijing: Atomic Energy Press, 2001. 71-80. (in Chinese)
28. He Jianguo, **Zhu Minqiang**. Application Research of Fusion Images of TM and Airborne R-ray Spectra Data on the Metellogenic Control Factors in Xiazhuang Uranium Orefield, South China [A]. Proceedings of Fifth International Airborne Remote Sensing Conference [C]. San Francisco, California, 17-20 Sept.2001. Published by Veridian.
29. Zhang Yuejing, **Zhu Minqiang**. Discuss the Geological Causes of Desertization [C]. Proceedings of Annual Meeting of Jiangxi Remote Sensing Association. 2004. Fuzhou, Jiangxi, China. (in Chinese)
30. Wu Renguei, **Zhu Minqiang**, Yu Dagan. Mesozoic Tectonic Evolution, Sedimentary Characteristics and Uranium Mineralization in Northern Ordos Basin [A]. Zhou Wenbin, Yu Dagan. Achievements and Expectations for Nuclear Resource and Environment [M]. Beijing: Atomic Energy Press. 2001. 63-71.
31. Yu Dagan, Wu Rengui, **Zhu Minqiang**. A Regional Evolution Model for the Basal-channel-type Sandstone-type Uranium Deposits [A]. Zhou Wenbin, Yu Dagan. Achievements and Expectations for Nuclear Resource and Environment [M]. Beijing: Atomic Energy Press. 2001. 60-63. (in Chinese)
32. Chen Anping, Miao Aisheng. Wu Rengui, **Zhu Minqiang**, Yu Dagan. Mineralization Characteristics of Dongsheng Uranium Mineralized Area [A]. IAEA-TECDOC-1396 [C]. International Atomic Energy Agency, Vienna, Austria.

2004. 69-78.
33. Chen Anpin, Wu Rengui, Miao Aisheng, **Zhu Minqiang**, Yu Dagan. Characteristics of Dongsheng Uranium Mineralization Area in Ordos Basin [A]. Sandstone-type Uranium Deposits in China [C]. Beijing: Atomic Energy Press, 2002. 88-97.
 34. Yu Dagan, Chen Anpin, Wu Rengui, **Zhu Minqiang**, Xu Jianzhang A Regional Evolution Model for the Basal-channel-type Sandstone-type Uranium Deposits [A]. Sandstone-type Uranium Deposits in China [C]. Beijing: Atomic Energy Press, 2002. 43-52.
 35. **Zhu Minqiang**, Yu Dagan, Wu Rengui, Evidences of Early Oxidation Related to the Sandstone-type Uranium Mineralization within Zhiluo Fm. (J2z), Ordos Basin. Proceedings of the 8th Biennial SGA Meeting, Aug. 2005, Beijing, China

Advised Graduate Students and Thesis

- * **Gao Yongguang**, 2000-2003, *Multisource Information Fusion Techniques Application to Uranium Ore Deposits Exploration in Dongsheng District of Ordos Basin* (in Chinese). Excellent M.S. Thesis Award, 2004, Education Committee of Jiangxi Province, China
Current Status: Ph.D. Student, China University of Mining & Technology, Beijing, China
- * **Zhu Ji**, 2000-2003, *Remote Sensing Expert Classification Models to Identify Land Cover Types in Fuzhou City* (in Chinese).
Current Status: Ph.D. Student, Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu, China
- * **Zhou Wanpeng**, 2001-2004, *Depositional System of Zhidan Group (K_{1z}) and Uranium Mineralization in Northern Ordos Basin* (in Chinese).
Current Status: Assistant, Department of Geoscience, East China Geological Institute, Fuzhou, Jiangxi, China
- * **Zhang Yuejing**, 2002-2005, *Hydrocarbon Microseepage Area Detection Though Landsat TM Data Processing in Ordos Basin*.
Current Status: in studying

Future Interested Research Areas

- * Hyperspectral remote sensing for rocks and minerals mapping or land cover classification and environment monitor

- * Spectral database construction of alteration rocks and minerals related to uranium deposits
- * The hydrocarbon microseepage area, oxidation & reduction area detected through Landsat TM and hyperspectral data processing in oil & gas field
- * Multi-source information integration techniques for uranium ore deposits exploration and environment evaluation
- * Integration of geographical information system, remote sensing and geodatabase management system for Resources and Environment