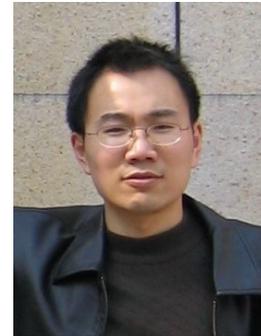


General information

Name: Xiaoqing SHI
Gender: Male
Citizenship: Chinese
Date of Birth: 08/21/1979
City of Birth: Shangrao, Jiangxi Province, P. R. China
Mailing address: Department of Hydrosciences, Nanjing University,
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Education

Sep. 2001--Jun. 2006 Ph.D.
Department of Earth Sciences, Nanjing University
Major: Hydrology and Water Resources
Sep. 1997--Jun 2001 Bachelor
Department of Earth Sciences, Nanjing University
Major: Hydrogeology and Engineering Geology

Awards and Scholarships

2009
2006 Excellent leader of Nanjing University

Professional experience

Oct. 2006 - Dec. 2009 Lecturer, Department of HydroSciences, Nanjing University
Jan. 2010 - present Associate Professor, Department of HydroSciences, Nanjing University

Courses I teach at NJU

- Stochastic hydrology
- Dynamics of groundwater
- Numerical simulation of groundwater
- Contaminant Transport Modeling

Research experience

My research work during the past several years mainly covers fluid flow and solute transport in geological formations, groundwater resources evaluation, contamination investigation using Geophysical methods, and numerical modeling of land subsidence caused by excessive groundwater withdrawals.

I participated several research projects during the past years as follows.

- Supervised the project “**Uncertainty analysis for the regional land subsidence model**” supported by the National Natural Science Foundation of China (2008.01-2010.12)
- Supervised the project “**Uncertainty analysis of hydrological parameters in modeling flow and transport in pre-selected Site for high-level waste repository in Beishan Area, Gansu Province**” supported by the Commission of Science, Technology, and Industry for National Defense (COSTIND) of China (2008.01-2011.12)
- Supervised the project “**Numerical Simulation of Transportation of Nonaqueous Phase Liquids in the Subsurface Environment in Yanziji site, Nanjing**” supported by Nanjing Center, China Geological Survey (2008.07-2009.08)
- Supervised the project “**Detection of Nonaqueous Phase Liquids using electrical resistivity tomography (ERT) and ground penetrating radar (GPR) methods- A case study in a polluted site**” supported by Nanjing Center, China Geological Survey (2009.11-2010.06)

Research interests

My principal research interests focus on the numerical simulation of the groundwater flow and solute transport in the heterogeneous geological formations. The complexities of geological heterogeneity and the typical sparsity and uncertainty field data characterizing the geological formation lead us to incorporate geostatistical and stochastic approach, accounting for the variability of hydraulic parameters.

Current research focuses on:

- Numerical modeling of flow and transport in the subsurface
- Fate, transport and remediation of NAPL contaminants in the vadose zone and groundwater aquifer;
- Aquifer characterization with Geostatistics
- Sensitivity and uncertainty analysis to groundwater model

Journal Papers in Chinese

1. **Shi X.Q.**, Wu J.C. and Yuan Y.S., Study on the spatial variability of hydraulic conductivity. *Advances in Water Resources*, 2005, 16(2):210-215. (in Chinese)
 2. **Shi X.Q.**, Wu J.C. and Yuan Y.S., et al. The effect of the anisotropy in porous media on the spatial variability of the hydraulic conductivity. *Advances in Water Resources*, 2005, 16(5):679-684. (in Chinese)
 3. Zhang Y., Xue Y.Q., **Shi X.Q.**, et al., Study on nonlinear creep model for saturated sand. *Rock and Soil Mechanics*, 2005, 26(12): 1869-1872. (in Chinese)
 4. **Shi X.Q.**, Xue Y.Q., Zhang Y., et al. Creep model of Changzhou silt clay. *Geotechnical investigation and surveying*, 2006, (5): 16-18. (in Chinese)
 5. **Shi X.Q.**, Xue Y.Q., Wu J.C., et al. Study on soil deformation properties of groundwater system in Changzhou area. *Hydrogeology and Engineering Geology*, 2006, 33(3): 1-6. (in Chinese)
 6. **Shi X.Q.**, Xue Y.Q., Wu J.C., et al. Determination of creep model for saturated sand. *Journal of Engineering Geology*, 2007, 15(2): 212-216. (in Chinese)
 7. **Shi X.Q.**, Jiang B.L. Application of FEMWATER in groundwater numerical simulation. *Geotechnical investigation and surveying*, 2008, (4): 27-32. (in Chinese)
 8. **Shi X. Q.**, Wu J.C., Jiang B.L., et al., Uncertainty analysis of groundwater models based on the Latin Hypercube sampling technique. *Hydrogeology and Engineering Geology*, 2009, (2): 1-6. (in Chinese)
 9. **Shi X.Q.**, Jiang B.L., Bian J.Y., et al., Geostatistical analysis for estimating the spatial variability of hydraulic conductivity in the third confined aquifer of Shanghai City. *Geotechnical investigation and surveying*, 2009, 37(1): 36-41. (in Chinese)
 10. **Shi X.Q.**, Zhang K.N., Wu J.C., The history and application of TOUGH2 code. *Geotechnical investigation and surveying*, 2009, 37(10):29-34. (in Chinese)
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Journal Papers in English

1. **Shi X.Q.**, Xue Y.Q., Wu J.C., et al. Characterization of land subsidence induced by groundwater withdrawals in Su-Xi-Chang area, China. *Environmental Geology*, 2007, 52:27-40. DOI 10.1007/s00254-006-0446-3
2. **SHI X.Q.**, XUE Y.Q., WU J.C., et al. Characteristics of regional land subsidence in Yangtze Delta, China-- An example of Su-Xi-Chang Area and the City of Shanghai. *Hydrogeology Journal*, 2008, 16(3): 593-607. DOI 10.1007/s10040-007-0237-2
3. **SHI X.Q.**, WU J.C., XUE Y.Q., et al. Regional land subsidence simulation in Su-Xi-Chang area and Shanghai City, China. *Engineering Geology*, 2008, 100 (1-2): 27-42. DOI: 10.1016/j.enggeo.2008.02.011
4. Xue Y.Q., Wu J.C., Zhang Y., Ye S.J., **Shi X.Q.**, et al., Simulation of regional land subsidence in the Southern Yangtze Delta. *Science in China Series D-Earth Sciences*, 2008, 51(6): 808-825.
5. Wu J.C., **SHI X.Q.**, et al. The Development and Control of Land Subsidence in the Yangtze Delta, China. *Environmental Geology*, 2008, 55(8): 1725-1735. DOI: 10.1007/s00254-007-1123-x
6. Wu, J.C., **Shi X.Q.**, Ye, S.J., et al., Numerical simulation of land subsidence induced by groundwater overexploitation in Su-Xi-Chang area, China, *Environmental Geology*, 2009, 57(6): 1409-1421. DOI: 10.1007/s00254-008-1419-5
7. Wu, J.C., **Shi X.Q.**, et al., Numerical simulation of visco-elasto-plastic land subsidence due to groundwater overdrafting in Shanghai, China, *Journal of Hydraulic engineering*, 2010, (accepted)

Conference Papers

1. **Shi Xiao-Qing**, Xue Yu-Qun, Wu Ji-Chun, et al. Creep and strength behavior of the sand of the 2nd confined aquifer in Changzhou, China. In Zhang Agen et al., ed., Land Subsidence. Proceedings of the Seventh International Symposium on Land Subsidence, pp.317-324. (SISOLS 2005)
2. **Shi Xiao-Qing**, Xue Yu-Qun, Wu Ji-Chun, et al. Modification of SUB Package to simulate aquifer-system compaction and land subsidence. In Zhang Agen et al., ed., Land Subsidence. Proceedings of the Seventh International Symposium on Land Subsidence, pp.727-735. (SISOLS 2005)
3. Xia Yuan, Wu Ji-Chun, **Shi Xiao-Qing**, et al. Forecast of Subsidence Caused by Pumping Shallow Groundwater in the Representative Plot of Suzhou-Wuxi-Changzhou Area. In Zhang Agen et al., ed., Land Subsidence. Proceedings of the Seventh International Symposium on Land Subsidence, pp.736-743. (SISOLS 2005)
4. Zhang Yun, Xue Yu-Qun, Wu Ji-Chun, Ye Shu-Jun, **Shi Xiao-Qing**. Nonlinear Creep Modeling of One-Dimensional Consolidation of Saturated clay. In Zhang Agen et al., ed., Land Subsidence. Proceedings of the Seventh International Symposium on Land Subsidence, pp.664-671. (SISOLS 2005)
5. **SHI X.Q.**, Xue Y.Q., Wu J.C., et al. Characterization and Modeling of land subsidence in Su-Xi-Chang area, China. *Geochem. Cosmochim. Acta* , 2006, 70 (18, Supplement 1): A583-A583. (SCI)
6. Zhang Y., Xue Y.Q., Wu J.C. and **Shi X.Q.**, Creep model of saturated sands in oedometer tests. *ASCE Geotechnical Special Publication* No.150, 2006. 328-335. (EI)
7. **SHI X.Q.**, Xue Y.Q., Wu J.C., et al., Land subsidence simulation in Su-Xi-Chang area and Shanghai City. Water-Rock Interaction, edited by Thomas D. Bullen and Yanxin Wang, proceeding of the 12th international symposium on water-rock interaction, Kunming, China, 31 July-5 August 2007, Volume 2: p1403-1406, 2007 Taylor & Francis Group, London, UK. WRI-12. (ISTP)
8. **SHI X.Q.**, Wu J.C., Xue Y.Q., et al.. Geostatistical analysis for estimating the spatial variability of hydrogeological and soil parameters used in the regional simulation of land subsidence in Shanghai City, China. *Geochem. Cosmochim. Acta* , 2008, 72(12, Supplement 1): A858-858. (SCI)
9. WU J., **SHI X.**, YE S., XUE Y., and ZHANG Y. Modeling of regional land subsidence in Shanghai City, China. *Geochem. Cosmochim. Acta* , 2008, 72(12, Supplement 1): A1038-1038. (SCI)

Computer proficiencies

- Extensive experience with
 - TOUGH2, TOUGHREACT, iTOUGH2
 - MODFLOW, MT3DMS, GMS, FEFLOW, Argus One™
 - Golden Surfer, Golden Grapher, Tecplot
 - Fortran language