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Current Position Associate Professor
Deputy Director
China Center for Health Development Studies, Peking University

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EDUCATION

1998 ~ 2003 Ph.D. in Social Medicine and Healthcare Management
School of Public Health
Fudan University, Shanghai, China

1998 ~ 2000 MSc. in Biostatistics
School of Public Health
Shanghai Medical University, Shanghai, China

1993 ~ 1998 MB. in Public Health
School of Public Health
Shanghai Medical University, Shanghai, China

SPECIALTY

1. Health System and Health Policy
2. Health financing
3. Human Resources for Health
4. Health statistics

WORK EXPERIENCE

August 2010 ~ present Associate Professor in Health System Research
China Center for Health Development Studies
(CCHDS), Peking University, China

March 2006 ~ July 2010 Lecturer in Health Services Research
Liverpool School of Tropical Medicine (LSTM), UK

July 2003 ~ March 2006 Lecturer in Social Medicine
School of Public Health
Fudan University, Shanghai, China

TEACHING

1. **Human Resources for Health**, at PKU, (in Chinese, 2015-present)
2. **Social Medicine** at PKU (in Chinese, 2010-present)
3. **Health Policy and System** Research at PKU (in English, 2012-present)
4. **Health Planning and Financing** at LSTM (in English, 2006-2010)
5. **Organization and Management** at LSTM (in English, 2006-2010)
6. **Human Resource Planning and Management** at LSTM (in English, 2006-2010)
7. **Health Statistics and Data Analysis** at Fudan (in Chinese, 1999-2006)
8. **Health Services Research and Field Survey** at Fudan. (in Chinese, 2003-2006)

Supervisor

- Supervise MSc and MPH students at CCHDS, PKU. (From 2012-)
- Co-supervisor of one PhD on health human resources (LSTM)
- Supervisor of 6 students of Master of International Public Health (LSTM)
- Co-supervisor of 6 master-degree students in Health Statistics and Social Medicine (Fudan)

RESEARCH INTERESTS AND EXPERIENCES

Health system research and health policy analysis, especially on health financing and health human resources

Research experiences

1. Evaluation of public hospital reform in Beijing. Funded by Beijing Health and Family Planning Commission. Co-PI. 2017.4-2018.4. 200,000 RMB.
2. Attraction and retention of rural primary health care workers in Asian Pacific countries. Funded by APO. Co-PI. 2016.4-2017.12.
3. Monitoring, Learning and Evaluation for the Implementation of Comprehensive Models of TB Care and Control in China. Funded by Bill & Melinda Gates Foundation. 2016.6-2019.6.
4. Cohort study of medical graduates with compulsory services in rural areas. Funded by China Medical Board (CMB). Principal Investigator. 2015-2020. 140,000USD.
5. Public hospital reform in Shanghai. Funded by MoH. 2011.1-2012.5. Co-PI.
6. Impact evaluation of educational policy for rural health workforce. Funded by PKU. 2011.09-2013.12. 150,000 RMB.
7. Job Preference and Retention of health workers at township health centers in rural China in the context of health system reform. Funded by China Medical Board (CMB). Principal Investigator. 2011.09-2014.09. 50,000 USD
8. Strategies for improving attraction and retention of health workers in rural and remote areas in low- and middle-income countries to achieve Millennium Development Goals. Funded by WHO. Principal Investigator. 2011.3-2012.3. 40,000 USD
9. Rapid appraisal of malaria epidemiology and the health system response in Anhui

- Province, China. Funded by LSTM RDF. 2008-2009. (Principal Investigator).
10. Bringing health care to the vulnerable - developing equitable and sustainable rural health insurance in China and Vietnam (RHINCAV). Funded by EU. 2005-2009. acting coordinator.
 11. Health Policy Making in Vietnam, India and China: Key determinants and their inter-relationships (HEPVIC). Funded by EU. 2005-2008. Main researcher mainly involved in Human resources component and paired with China partner.
 12. Situation Analysis of In-service Training of Health Human Resources in Shanghai, Funded by International ORBIS, 2005 (Principal Investigator).
 13. Evaluation Study of UHPP Impact on Urban Community Health Service in Chengdu and Shenyang. Funded by MoH, 2005.
 14. Urban Health Insurance Reform Assessment, (part of the third National Health Survey). Funded by MoH. Aug. 2003-May. 2004.
 15. The impact of decentralization on health human resource management. Funded by DFID, 2000-2003. (PhD study.)
 16. TB Control among Internal Migrants in Shanghai. Funded by Fudan University, 2003-2004 (Principal Investigator).
 17. The Impact of Decentralization on Community Health Service in Shanghai. Funded by Fudan University, 2004-2006 (Principal Investigator).
 18. Study on the development, model and mechanism of Co-operative Medical Scheme in rural China. Funded by National Natural Science Foundation, 2003-2004.
 19. Maternal health care among female migrant in Pudong district, Shanghai, China. Funded by FORD foundation. 1998 - 2000.

CONSULTANCY EXPERIENCES

1. Design of the 5th National Health Services Survey. MoH. 2012.4-2012.9.
2. Thematic review on policy engagement in the China-Australia Health and HIV/AIDS Facility. AusAID. 2011.10 – 2012.5.
3. Impact of Health System Strengthening in Different Settings on National TB Control Programme in Low and Middle Income Countries (Review). WHO TDR. 2011.09-2012.06
4. Evaluation of Measles Immunization programme. MoH. 2011.6 - 2011.12.
5. Evaluation of China Australia Health and HIV/AIDS Facility. AusAID. 2011.5
6. Health service payment reform in China. World Bank. 2010.12-2011.6.
7. Study on Directly Observed Therapy for Tuberculosis in Chongqing, China, Funded by National TB Control Programme, 2004-2005. (Key consultant, responsible for technical assistance in study design, data collection, and report preparation.)
8. Social Assessment Study for WB/DFID funded TB control project in Inner Mongolia and Fujian province, China. Funded by DFID and LATH, 2003-2005 (National consultant of quantitative study, responsible for study design, data collection, data analysis and report writing process.)

RECENT PUBLICATIONS

Papers published in international journals (* corresponding author)

1. Wang H, Tang C, Zhao S, Meng Q, **Liu X***. Job Satisfaction among Health-Care Staff in Township Health Centers in Rural China: Results from a Latent Class Analysis. *International Journal of Environmental Research & Public Health*, 2017, 14(10):1101.
2. Hu D, Zhu W, Fu Y, Zhang M, Zhao Y, Hanson K, Martinez-Alvarez M, **Liu X***. Development of village doctors in China: financial compensation and health system support. *International Journal for Equity in Health*, 2017, 16(1): 9.
3. **Liu X***, Sun X, Zhao Y, et al. Financial protection of rural health insurance for patients with hypertension and diabetes: repeated cross-sectional surveys in rural China. *BMC Health Services Research*, 2016, 16(1):481.
4. Sun X, **Liu X**, Sun Q Yip W, Wagstaff A, Meng Q. The impact of a pay-for-performance scheme on prescription quality in rural China. *Health Economics*, 2016, 25: 706–722.
5. Meng Q, Fang H, **Liu X**, et al. Consolidating the social health insurance schemes in China: towards an equitable and efficient health system. *Lancet*, 2015, 386(10002):1484-1492.
6. Wang W, Shi L, Yin A, Mao Z, Maitland E, Nicholas S, **Liu X***. Contribution of primary care to health: an individual level analysis from Tibet, China. *International Journal for Equity in Health*. 2015, 14:107.
7. Wang W, Shi L, Yin A, Mao Z, Maitland E, Nicholas S, **Liu X***. Primary Care Quality among Different Health Care Structures in Tibet, China. *Biomed Research International*, 2015, 2015:1-8.
8. Wang W, Shi L, Yin A, Mao Z, Maitland E, Nicholas S, **Liu X***. Primary care quality between Traditional Tibetan Medicine and Western Medicine Hospitals: a pilot assessment in Tibet [J].*International Journal for Equity in Health* 2015,14:45.
9. Dou L, **Liu X**, Zhang T, Wu Y. Health care utilization in older people with cardiovascular disease in China. *International Journal for Equity in Health* 2015,14:59.
10. **Liu X**, Zhao S, Zhang M, Hu D & Meng Q. The development of rural primary health care in China's health system reform. *Journal of Asian Public Policy* 2015, DOI: 10.1080/17516234.2015.1008195
11. **Liu X**, Dou L, Zhang H, et al. Analysis of context factors in compulsory and incentive strategies for improving attraction and retention of health workers in rural and remote areas: a systematic review. *Human Resource Health*, 2015,13:61.
12. Martineau T, Mirzoev T, Pearson S, Bui TTH, Qian X, Ramani KV, **Liu X***. Coherence between health policy and human resource strategy: lessons from

maternal health in Vietnam, India and China. *Health Policy Plan*, 2015,30(1):111-120.

13. Yuan S, Rehnberg C, Sun X, **Liu X**, Meng Q. Income related inequalities in New Cooperative Medical Scheme: a five-year empirical study of Junan County in China. *International journal for equity in health*, 2014,13:38.
14. **Liu X**. Job preferences of primary health care workers in rural China: application of Discrete Choice Experiment. *BMC Health Services Research*, 2014, 14(Suppl2):1.
15. Mccollum R, Chen L, Tang C, **Liu X**, et al. Experiences with primary healthcare in Fuzhou, urban China, in the context of health sector reform: a mixed methods study. *The International journal of health planning and management*,2014,29(2):e107-e126.
16. **Liu X***, Tang S, Yu B, et al. Can rural health insurance improve equity in health care utilization? A comparison between China and Vietnam [J]. *International Journal for Equity in Health*, 2012, 11(1): 10.
17. Yu B, Meng Q, Collins C, Tolhurst R, Tang S, Yan F, Bogg L, **Liu X***. How does the New Cooperative Medical Scheme influence health service utilization? A study in two provinces in rural China. *BMC Health Services Research* 2010, 10(1):116.
18. Zhang L, Cheng X, Tolhurst R, Tang S, **Liu X***. How effectively can the New Cooperative Medical Scheme reduce catastrophic health expenditure for the poor and non-poor in rural China? *Tropical Medicine & International Health*. 2010, 15(4): 468-475.
19. Sun Q, **Liu X**, Meng Q, Tang S, Yu B, Tolhurst R. Evaluating the financial protection of patients with chronic disease by health insurance in rural China. *International Journal for Equity in Health*. 2009, 8(1): 42.
20. Nieuwenhuis S, Odukogbe A, Theobald S, **Liu X**. The Impact of Infertility on Infertile Men and Women in Ibadan, Oyo State, Nigeria: A Qualitative Study. *African Journal of Reproductive Health*. 2009, 13(3):85 - 98.
21. Zhang L, Cheng X, **Liu X**, Zhu K, Tang S, Bogg L, Dobberschuetz K, Tolhurst R. Balancing the funds in the New Cooperative Medical Scheme in rural China: determinants and influencing factors in two provinces. *International Journal of Health Planninf and Management*. 2009 24: 1–23.
22. Nieuwenhuis S, Odukogbe A, **Liu X**. The impact of infertility on infertile men and women in Ibadan, Oyo State, Nigeria. *Tropical Journal of Obstetrics and Gynaecology*. 2008, 25(S1): S8.
23. Smith H, Chen J, **Liu X**. Language and rigour in qualitative research: Problems and principles in analyzing data collected in Mandarin. *BMC Medical Research Methodology*. 2008, 8:44.
24. Hu D, **Liu X***, Chen C, Wang Y, Wang T, Zeng W, Smith H, Garner P. Direct observation and adherence to TB treatment in Chongqing, China: a descriptive study. *Health Policy and Planning*. 2008, 23:43-55.
25. **Liu X***, Thomson R, Gong Y, Zhao F, Squire B, Tolhurst R, Zhao X, Yan F, Tang S. How affordable are TB diagnosis and treatment in rural China? An analysis

- from community and TB patient perspectives. *Tropical Medicine & International Health*. 2007, 12:1464-71.
26. Yan F, Thomson R, Tang S, Squire B, Wang W, **Liu X**, Gong Y, Zhao F, Tolhurst R. Multiple perspectives on diagnosis delay for tuberculosis from key stakeholders in poor rural China: Case study in four provinces. *Health Policy*. 2007, (82): 186-199.
 27. Zhang T, **Liu X**, Bromley H, Tang H. Perceptions of tuberculosis and health seeking behaviour in rural Inner Mongolia, China. *Health policy*. 2007, (81): 188-165.
 28. **Liu X**, Martineau T, Chen L, Zhan S, Tang S. Does decentralisation improve human resource management in the health sector? A case study from China. *Social Science and Medicine*. 2006, (63), 1836-1845.
 29. **Liu X**, Tang S, Thomson R, Zhao X, Gong Y. TB patients face heavy economic burden within the WB/DFID assisted free TB programme: perceived and actual costs. Social assessment case study in poor rural China. *The international journal of Tuberculosis and lung disease*. 2005, 9(11): S144.
 30. **Liu X**, Tang S, Gong Y, Zhao X, Wang Y. Do vulnerable groups have equal access to TB diagnosis and treatment? Social assessment case study in poor rural China. *The international Journal of Tuberculosis and Lung Disease*. 2004, 8(11): S183.
 31. **Liu X**, Tang S, Squire B, Zhan S. New challenge of tuberculosis control in Shanghai: urgent need to help internal migrants in the period of economic transition. *The international Journal of Tuberculosis and Lung Disease*. 2003, 7(11): S247.

Papers published in Chinese journals

1. Shenglan Tang, **Xiaoyun Liu***, Dale Huntington, Qin Liu. Is Systematic Review an Effective Tool for Evidence-Based Health System Research in Developing Countries? *Chinese Journal of Evidence Based Medicine*. 2011, (6): 600-604 .
2. **Liu Xiaoyun**. Use of Discrete Choice Experiments in policy research of human resources for health. *Chinese Journal of Health Policy*. 2011,4(8):24-28.
3. **Liu Xiaoyun**. Attraction and retention of health workers in remote rural areas: a conceptual framework for research. *Chinese Journal of Health Policy*. 2011,4(5):11-15
4. **Liu Xiaoyun**, Feng Xueshan, Jia Xiaoting, et al. Difficulties and root causes in developing Cooperative Medical Scheme. *Chinese Health Economics*. 2005, 24(7): 31-33.
5. **Liu Xiaoyun**, Wang Guangrong, Li Zhe, Zhu Ji, Xie Lingyu, Zhan Shaokang. Impact of Community Health Service Delegation Reform on Human Resource Management. *Chinese Journal of Hospital Administration*. 2005, (21): 516-517.
6. **Liu Xiaoyun**, Zhan Shaokang. New direction of qualitative data analysis. *Chinese Health Resources*. 2004, (2): 85-87.
7. **Liu Xiaoyun**, Zhan Shaokang, Chen Lieping, Tang Shenglan, Martineau Tim,

- Gong Youlong. Impact of decentralization on health human resources management in township health centers. *Chinese Health Resources*. 2003(, 3): 114-116.
8. **Liu Xiaoyun**, Yan Fei, Zhan Shaokang. Qualitative method in health service research. *Shanghai Preventive Medicine*. 2003, (11): 535—536
 9. **Liu Xiaoyun**, Chen Lieping, Zhan Shaokang, Tang Shenglan, Martineau Tim. Impact of personnel reforms on health human resources under decentralization policy. *Chinese Hospital Management*. 2003, (1): 16-19.
 10. **Liu Xiaoyun**, Zhan Shaokang. Theories and practices of health sector decentralization: a review. *China health human resources*. 2002, (1): 32-35.
 11. **Liu Xiaoyun**, Zhan Shaokang, Xie Lingyu. Study on KAP of female internal migrants in Pudong district, Shanghai. *Journal of Shanghai Preventive Medicine*. 2001, (12): 569-571.
 12. **Liu Xiaoyun**, Zhan Shaokang. Health Care for Internal Migrants. *Journal of Haixia Preventive Medicine*. 2000, (1): 17-19.
 13. **Liu Xiaoyun**, Zhan Shaokang. Use of focus group discussion in field survey. *Journal of Shanghai Preventive Medicine*. 2000, (8): 383-385.

Book Chapters

1. **Liu Xiaoyun (Associate Editor)**. Health Human Resource Management. People's Medical Publishing House. Beijing. 2013.
2. **Liu Xiaoyun (Associate Editor)**, Zhao Naiqing. Medical study design (Chapter 5 and Chapter 13). In: Clinical study design and data analysis. Zhao Naiqing. Fudan University Press. Shanghai. 2005. 71-83.
3. **Liu Xiaoyun**. Equity analysis of health services. (Chapter 1). In: Evaluation study on equity and efficiency of health services in urban China. Meng Qingyue, Yan Fei. Shangdong University Press. Shangdong. 2005. 1-22.
4. **Liu Xiaoyun**. Loglinear regression and Poisson regression (Chapter 17). In: Advanced statistical analysis using SPSS. Zhang Wentong. High Education Press, Beijing. 2004. 341-362.
5. **Liu Xiaoyun**. Equity and efficiency of community health services. (Chapter 14 and Chapter 15). In: Community health service development strategy in well-off society. Wang Guangrong and Gong Youlong. Fudan University Press. Shanghai. 2004. 159-183.
6. **Liu Xiaoyun**. Non-parametric statistical analysis (Chapter 10). In: Health Statistics methods. Cao Suhua. Fudan University Press. Shanghai. 2003.178-197.
7. **Liu Xiaoyun**. Logistic regression (Chapter 5). In: Statistical analysis using SPSS 11.0. Zhang Wentong. Beijing Hope Electronic Press. Beijing. 2002. 91-123.