

## **CURRICULUM VITAE**

### **Song Liang, Ph.D.**

Associate Professor of Environmental & Global Health Sciences

Department of Environmental and Global Health (EGH)  
College of Public Health and Health Professions (PHHP), &  
Emerging Pathogens Institute (EPI)  
University of Florida

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### **EDUCATION**

- Ph.D. Environmental Health Sciences and Epidemiology, 2003, University of California, School of Public Health, Berkeley, CA, USA  
M.S. Environmental Health Sciences, 1999, University of California, School of Public Health, Berkeley, CA, USA  
M.S. Zoology, 1992, Southwest University, Chongqing, China  
B.S. Biology, 1989, Southwest University, Chongqing, China

### **FACULTY APPOINTMENT**

- 2012~present: Associate Professor, Department of Environmental and Global Health, College of Public Health and Health Professions, and Emerging Pathogens Institute, University of Florida, Gainesville, FL, USA  
2006~2012: Assistant Professor, College of Public Health, and Environmental Sciences Graduate Program, The Ohio State University, Columbus, OH, USA  
2005~2006: Lecturer, School of Public Health, University of California, Berkeley, CA, USA

### **OTHER PROFESSIONAL APPOINTMENTS**

- 2004~2005: Assistant Researcher, School of Public Health, University of California at Berkeley  
2003~2004: Postdoctoral Fellow, School of Public Health, University of California at Berkeley  
1992~1997: Assistant Researcher, Center for Disease Control and Prevention, Chengdu, Sichuan, China

### **PROFESSIONAL AFFILIATION**

- 2016 ~ present: Member, International Society for Neglected Tropical Diseases
- 2006 ~ present: Member, American Public Health Association
- 2008 ~ present: Member, International Society of Infectious Diseases
- 2003 ~ present: Member, American Society of Tropical Medicine and Hygiene
- 1993 ~ 2002: Member, Association Endemic Disease Control and Prevention, Sichuan, China
- 1992~ 1997: Member, Society of Zoology, Sichuan, China

## **HONORS & AWARDS**

- 2021: Outstanding Reviewer Award (*Infectious Disease of Poverty*)
- 2020: University of Florida URSP Faculty Mentor Research Award
- 2019: University of Florida Faculty Enhancement Opportunity (FEO) Award (2019 Spring cycle)
- 2018: Department of Environmental & Global Health Best Mentor Award, College of Public Health and Health Professions, University of Florida
- 2017~2020: University of Florida Term Professorship
- 2010: The 2<sup>nd</sup> Place Award of Science and Technology Progress, Sichuan Provincial Government, Sichuan, P.R. China
- 2002~2003 Water G. & Julia Parker Scholarship, University of California at Berkeley
- 2001~2002: Russel M. Grossman Award for Doctoral Student Research, School of Public Health, University of California at Berkeley
- 2000~2001: Marie Louise Ellert Scholarship, School of Public Health, University of California at Berkeley
- 1998: The 2<sup>nd</sup> Place Award of National Science and Technology Progress, Ministry of Science and Technology, P.R. China
- 1997: The 3<sup>rd</sup> Place Award of Science and Technology Progress, Sichuan Provincial Government, Sichuan, P.R. China

## **SERVICES**

### **Campus-wide**

- 2022 ~ present: Member, Academic Integrity Task Forces, College of Public Health and Health Professions, University of Florida
- 2020 ~ 2021: Chair, Faculty Search Committee, Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida
- 2017 ~ present: MPH Program Coordinator, Department of Environmental & Global Health, College of Public Health and Health Professions, University of Florida

- 2017 ~ present: Member, Program Committee, Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida
- 2017 ~ 2018: Faculty Search Committee, Department of Environmental and Global Health, College of Public Health and Health Professions, University of Florida
- 2017 ~ 2021: Technical Advisory Group member for Building Resilience Against Climate Effects (BRACE), Florida State University
- 2015 ~ 2021: Member, College Research Committee, College of Public Health and Health Professions, University of Florida
- 2013 ~ 2015: College Curriculum Committee, College of Public Health and Health Professions, University of Florida
- 2013 ~ 2017: Technical Advisory Group member for Building Resilience Against Climate Effects (BRACE), Florida Department of Health
- 2012 ~ 2015: Commencement Marshals, University of Florida
- 2010 ~ 2012: Governance Committee of New Undergraduate Program on Environmental Public Health, the Ohio State University
- 2011 ~ 2012: Member, Strategic Priority Committee, Public Health Preparedness for Infectious Diseases (PHPID), the Ohio State University
- 2009 ~ 2011: Steering Committee of Internationalization of Undergraduate Program, Office of International Affairs, the Ohio State University
- 2008 ~ 2010: International Congress Committee, Public Health Preparedness for Infectious Diseases (PHPID), the Ohio State University
- 2008 ~ 2011: Judge, Undergraduate Student Research Day, the Ohio State University
- 2007~ 2009: Charter Member, Targeted Investment in Excellence (TIE) Program, Public Health Preparedness for Infectious Diseases (PHPID), the Ohio State University
- 2007~2008: Staff Award Committee, College of Public Health, the Ohio State University
- 2007~2012: Chair, Graduate Student Admission Committee at Division of Environmental Health Sciences, College of Public Health, the Ohio State University
- 2006~2012: Graduate Faculty Representative on Doctoral Candidacy Exams, the Ohio State University

*National & International*

- 2021 ~ present: Member, the World Health Organization (WHO) Advisory Group on Soil Transmitted Helminthiasis and Schistosomiasis Control and Elimination, Geneva, Switzerland
- 2013 ~ present: Member, Faculty Advisory Committee, Florida Climate Institute, Gainesville, FL
- 2013 ~ 2019: Faculty member, Florida Integrated Food Safety Center of Excellence
- 2017: Member, Working Group (*Transportation and Public Health in China*) commissioned by the Lancet
- 2016: Member, Working Group (*Healthy Cities: Unlocking the power of cities for building a healthy China*) commissioned by the Lancet and Tsinghua University.
- 2015: Special Advisory Committee, *Protecting Planetary Health: the Ultimate Goal for Human Actions in Response to Global Change*. Report of the Rockefeller Foundation-Lancet Climate Change and Health

- Commission: Symposium & Special Issue Launch. The Lancet and Tsinghua University
- 2011 ~ 2015: Public Health Adviser, *Public Health and Tropical Disease Control Program*, Jiangmen City, Guangdong Province, China
- 2011~2015: Member, Advisory Committee, *Innovative Strategies for Sustainable Control of Asian Schistosomiasis and Other Helminth Zoonoses through Socio-Ecosystem-Based Interventions in Six Asian Countries (Cambodia, China, Laos, Thailand, the Philippines, Vietnam)*, Funded by IDRC, Canada
- 2010: Member, Working Group (*Environmental Health Status in China*) commissioned by the China Medical Board and the Lancet
- 2008~2011 Member of Advisory Committee, Surveillance and Elimination Programs for Schistosomiasis, National Institute of Parasitic Diseases, Center for Disease Control and Prevention, Shanghai; and Center for Disease Control and Prevention, Sichuan, China

#### Conference & Symposium Chairing

- 2016: Session Chair, the 3<sup>rd</sup> Symposium on Surveillance Response Systems Leading to Tropical Disease Elimination. June 15-16, 2016, Shanghai, China. Organized by the World Health Organization and National Institute of Parasitic Diseases, Chinese CDC
- 2012: Session Chair, U.S.-China Workshop on Environmental Monitoring for Public Health and Disaster Recovery; “Environmental Monitoring and Public Health”, August 7-8, 2012, Yellow Mountain, China
- 2009: Symposium Organizer, “Eliminating the Transmission of Schistosome in China– Opportunities and Challenges”. Symposium 19, The 58<sup>th</sup> Annual Meeting the American Society of Tropical Medicine and Hygiene, 2009, Washington DC, USA
- 2005: Symposium Organizer, *Towards Sustainable Surveillance and Control of Schistosomiasis Transmission*. Chengdu, Sichuan. Organized by National Institute of Parasitic Diseases, Chinese CDC

#### Academic Editorship

- 2013 ~ present: Associate Editor, *PLoS NTDs*
- 2018 ~ present: Editorial Board Member, *Infectious Diseases of Poverty*
- 2011 ~ 2021: Associate Editor, *BMC Public Health*

#### Manuscript Reviewer for Academic Journals

1. Acta Tropica
2. American Journal of Tropical Medicine and Hygiene
3. BMC Public Health
4. BMC Infectious Diseases
5. BMJ Open
6. Bulletin of Mathematical Biology
7. Bulletin of the World Health Organization
8. Chinese Journal of Schistosomiasis Control (in Chinese)
9. Chinese Journal of Medicine (in Chinese)
10. Emerging Theme in Epidemiology
11. Environmental Engineering Science
12. Environmental Health Perspectives

13. Frontiers in Microbiology
14. Geographical Information Sciences
15. GeoJournal
16. International Journal of Parasitology
17. Infectious Diseases of Poverty
18. Journal of Biological Systems
19. Journal of Parasitoses and Infectious Disease
20. Journal of Microbial Ecology
21. Journal of the American Water Resources Association
22. Journal of Environmental Science and Technology
23. Lancet (*Infectious Diseases & Planetary Health*)
24. Nature Medicine
25. New England Journal of Medicine
26. Parasitology International
27. PLoS Medicine
28. PLoS Neglected Tropical Diseases
29. PLoS One
30. PLoS Currents Outbreaks
31. Proceedings of the National Academy of Sciences of the United States of America (PNAS)
32. Scientific Reports (Nature)
33. Science (Chinese)
34. Tropical Medicine and International Health
35. Transactions of the Royal Society of Tropical Medicine and Hygiene

#### *Grant Proposal Review*

- 2019: NIH US-Brazil Special Review Panel (ZRG1 IMM-N(50))
- 2015 ~ present: Member, Study Section Committee, Global Health Section, US CDC  
(ZGH1 HMS 02, CGH Special Emphasis Panel Meeting)  
(ZGH HMS 01, CGH Special Emphasis Panel Meeting)
- 2016 ~ 2018: Member, Review Committee (*ad hoc*), EPA STAR Programs
- 2014: Member, Review Committee, Centers of Research Excellence, New Zealand, funding for emerging and re-emerging zoonotic diseases
- 2010: Hong Kong Education Bureau, Research Council, Funding for emerging infectious disease surveillance and monitoring programs
- 2008: Reviewer, NIH Study Section (*ad hoc*), funding for grant challenge proposals
- 2008: Reviewer, Chinese NSF (*as hoc*), funding for health impacts of climate change

## **TEACHING**

### Schools

- 2012~present: University of Florida, Gainesville, FL, USA
- 2006~2012: The Ohio State University, Columbus, OH, USA
- 2004~2006: University of California, Berkeley, CA, USA

### Courses

#### *Graduate and Undergraduate*

2020~	PHC 6937, Environmental and One Health (graduate)
2018 ~	PHC 6939, Quantitative Assessment of Environmental Health Impacts (graduate)
2013 ~	PHC 6520, Introduction to Foodborne Diseases (graduate & undergraduate, online)
2013 ~ 2017	PHC 6346, Occupational and Environmental Health in Agricultural Environment (graduate)
2009 ~ 2015	PH850, Modeling Transmission and Control of Infectious Diseases in Humans and Animals (graduate)
2007~2012	PH-EHS 530, Current Topics in Environmental Health Sciences (undergraduate)
2007~2012	PH-EHS 735, Water and Human Health Risks (graduate and undergraduate)
2006~2007	PH-EHS 731, Principles of Environmental Health Sciences (graduate)
2006~2012	PH-EHS 685, Field Experience in Environmental Health (graduate, no lecture)
2005~2006	EHS-150/A, Water and Public Health (undergraduate)

*Postdoctoral Trainees, Faculty and Visiting Scholars*

2006~	Hold seminars, work-in-progress meetings, and in-person one-on-one meetings with focus on study designs, analytical/modeling methods, and public health implications, including some key topics in the following (1) statistical methods in environmental health applications; (2) extracting data from climate changes models in environmental health applications; (3) geostatistical analysis of key neglected tropical diseases (NTDs) in small scales; (4) mapping and risk assessment of NTDs; (5) modeling transmission and control of key NTDs; (6) population- and individual-based disease transmission models; (7) utilizing models to conduct pseudo trials on public health interventions and their impacts of water- and vector-borne diseases; (8) conducting fieldwork in international settings and developing relationships for collaborative research; (9) climate change and public health impact; (10) infectious disease surveillance and optimization strategies; (11) <i>One Health</i> approach to the study and control of infectious diseases; (12) urbanization and tropical diseases; (13) critical review for academic journals; and (14) manuscript preparation and journal submission.
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Mentorship

*Current PhD Students*

2021~now:	<u>Bianca Punch</u> , PhD student in the environmental health concentration, primary advisor
2021~now:	<u>S. Mazmus Sakib</u> , PhD student in environmental health concentration, member of dissertation committee
2021~now:	<u>Andrew Rainey</u> , PhD student in one health concentration, member of dissertation committee
2018~now:	<u>Xiaolong (Bruce) Li</u> , PhD student in one health concentration, primary advisor
2018~now:	<u>Dehao (Billy) Chen</u> , PhD student in environmental health concentration, primary advisor

### *Graduated PhD Students*

- 2018~2022: Minjing Liu, PhD student in biostatistics, member of dissertation committee.
- 2018~2021: Caroline J. Stephenson, PhD student in one health concentration, member of dissertation committee (dissertation focusing on investigating the risk for dengue virus transmission in Florida using a One Health approach)
- 2017~2020: Emi Moore, PhD student in one health concentration, member of dissertation committee, focusing on social determinants of livestock ownership and nutrition in young children in rural Burkina Faso
- 2017~2021: Neda Jalahi, PhD student in biostatistics, member of dissertation committee, focusing on modeling transmission hand-foot-and-mouth diseases.
- 2018~2021: Yanan Hou, PhD student in biostatistics, member of dissertation committee, focusing on statistical modeling of vaccine trials in the control of infectious diseases
- 2017~2020: Emi Moore, PhD student in one health concentration, member of dissertation committee, focusing on social determinants of livestock ownership and nutrition in young children in rural Burkina Faso
- 2015~2020: Keerati Ponpetch, PhD student in environmental health science concentration, primary advisor, focus on epidemiology of schistosomiasis in Ethiopia: Socio-environmental determinants and control of *Schistosoma mansoni* transmission in Ethiopia
- 2016~2018: Kunthida Kingsawad, visiting PhD student from Thailand, primary advisor, focusing on developing dissertation research plans on climate change and malaria transmission in border regions of Thailand
- 2016~2018: Lindsay Laytner, PhD student in one health concentration, member of dissertation committee, focusing on one health approach to understand undernutrition among children under five in rural Ethiopia
- 2016~2019: Catherine McDermott, PhD student in one health concentration, co-advisor, focusing on spatio-temporal modeling of vector-borne diseases: the impacts of travel and environmental change on risks of Zika and other vector-borne diseases in Florida.
- 2015~2019: Mirna Amaya, PhD student in environmental health concentration, primary advisor, focusing on urban epidemic response to Zika virus in El Salvador and Nicaragua
- 2014~2019: Yi Su, PhD student in one health concentration, primary advisor, focus on epidemiology of soil-transmitted helminthes: the impacts of improved sanitation on infections of soil-transmitted helminthes in children under-five in urban Maputo, Mozambique
- 2012~2015 Salah Uddin Khan, PhD in environmental health sciences with one health concentration, primary advisor, with focus on spatio-temporal modeling of avian influenza risk in Bangladesh
- 2012~2016 Moise Ngwa, PhD in environmental health sciences, co-advisor (with Dr. Glenn Morris), with focus on environmental determinants of cholera outbreaks in Cameroon

- 2013~2017 Jacob Atem, PhD in environmental health sciences, member of dissertation committee, with focus on environmental determinants of diarrhea in refugee camps in East Africa
- 2012~2016 Helena Chapman, PhD in environmental health sciences with one health concentration, member of dissertation committee, with focus on TB in healthcare settings in Dominican Republic
- 2012~2015 Benjamin Anderson, PhD in environmental health sciences with one health concentration, member of dissertation committee, with focus on one health approach to the study of swine influenza in China
- 2012-2015 Cuc Tran, PhD in environmental health sciences, member of dissertation committee, with focus on surveillance and modeling of influenza in Alachua County, Florida
- 2011-2015 Poulomy Chakraborty, PhD in environmental health sciences, member of dissertation committee, with focus on social risk factors associated with diarrhea disease among children under five in Kenya
- 2011-2016 Amber Barnes, PhD in environmental health sciences with one health concentration, member of dissertation committee, with focus on environmental determinants of zoonotic transmission of enteric pathogens and its implications for diarrhea among children
- 2011-2015 Feng Zhang, PhD in environmental sciences, co-advisor (with Dr. Jiyoung Lee), with focus on harmful algal blooms and public health implications
- 2007~2013 Paul Rosile, PhD in environmental health sciences, primary advisor, with focus on risk assessment of West Nile Virus in mosquitoes and public health implication in Central Ohio

*Graduated PhD Students (as external members and/or minor chair)*

- 2013~2015 Yifan Zhu, PhD in biostatistics, member of dissertation committee.
- 2012~2015 Alassane Barro, PhD in medical geography, member of dissertation committee and chair of epidemiology minor
- 2012~2016 Lillian Morris, PhD in medical geography, member of dissertation committee and chair of epidemiology minor
- 2013~2017 Dawn Nekorchuk, PhD in medical geography, member of dissertation committee and chair of epidemiology minor
- 2014~2017 Samson Ghebremariam, PhD in biostatistics, member of dissertation committee
- 2012~2015 Biswadeep Dhar, PhD candidate in biology, member of dissertation committee

*Master's Degree Students (chair)*

- 2020~present Abel Ekiri, MPH student, advising on course work
- 2021~present Catherine Goodspeed, MPH student, advising on coursework, internship and special project report
- 2020~2022 Jean P. Gefthe, MPH student, advising on course work
- 2019~2021 Zo-Yu Wu, MPH student, advising on course work, internship project, and special project report
- 2018~2020 Madeline R. Steck, MPH student, advising on course work, internship project, and special report
- 2018~2020 Nicholas De Filippis, MHS student, advising on course work and a project on children's behavior and exposure to *Campylobacter* infections



- 2018~2020 Sylvia Hadis, MPH student, advising on course work, internship project, and career development
- 2018~2020 Erica Tramuta-Drobnis, MPH student, advising on course work, internship project, and career development
- 2018~2020 Daniela Zuniga, MPH student, advising on course work, internship project, and career development
- 2017~2019 Benjamin Caoili, MPH student, advising on course work, internship project, and career development
- 2016~2018 Yuxin Ni, MPH student, advising on course work, internship project, and career development, and her project on analysis of hospital admission due to cardiovascular illness in Gainesville
- 2017~2019 Jeremey Gifford, MPH student (online), advising on course work and internship project
- 2016~2020 Nick Dowhaniuk, MHS student, advising on course work and spatial analysis on data (on conflict) collected in Africa
- 2016~2018 Nathalie Munguia, MPH student, advising on course work, internship project, focus on spatial analysis of chemical contamination in Panthers in Florida
- 2012~2014 Lucy Liu, MPH student, advising on course work, internship project, and career development
- 2012~2014 Ashley Coatsworth, MPH student, advising on her internship project (with funding to support her work on assessing impacts of improved sanitation on transmission of schistosomiasis) in Fudan University and Yueyang CDC, China
- 2012~2014 Kevin J. Talbot, MPH student (online), advising on course work and internship project, and his research work on schistosomiasis in Haiti
- 2013~2015 Mary L. Kucera, MPH student (online), advising on course work and internship project on access to water and community health
- 2014~2016 Arnel Duvet, MPH student, advising on course work and his internship project on diarrhea and water, sanitation, and hygiene (WASH) in rural communities, Nairobi, Kenya
- 2014~2016 Kirsten Berling, MPH student, advising on course work and her internship project on arsenic contamination and health implications in rural communities, Nairobi, Kenya
- 2011~2013 Gary Klase, MPH student, advising on course work, internship project, and career development (with funding to support his work on water quality and aquaculture safety in China – manuscript under review)
- 2009~2012 Paul Keer III, MPH student, advising on course work and his internship project on soil-transmitted helminthes surveillance at the WHO West Pacific Region Office (WPRO)
- 2009~2012 David Vera, MPH student, advising on course work, internship project, and career development.
- 2008~2011 Jessica Taylor, MS student, advising her thesis on human health risk from waterborne pathogens in ballast water
- 2008~2011 Christina Kim, MPH student, advising on course work, internship project, and career development (with funding to support her work on water/sanitation and liver fluke in Thailand, resulting in one publication)
- 2007~2009 Stephani Kim, MPH student, advising on course work, internship project, and career development
- 2009~2011 Patrick Riulle, MPH student, advising on course work and internship project

- 2008~2010 Taryn Gehlert, MPH student, advising on course work
- 2008~2010 Carolyn Hagopian, MPH student, advising on course and internship project on biosolid applications and public health impacts
- 2007~2009 Dylan Galos, MPH student, advising on course and internship project on West Nile Virus and public health in Columbus, Ohio
- 2007~2009 Kathy Lewis, MPH student, advising on course and internship project on recreational water use and health risk
- 2007~2009 James Rosenblum, MPH student, advising on course and internship project on biogas digestion and its impact of enteric parasitic ova
- 2006~2009 Sarah M. Tieche, MPH student, advising on course

*Master's Degree Students (committee member – not included)*

*Undergraduate students*

- 2020~present Anand Chundi, undergraduate student in environmental sciences: providing guidance on a project looking at environmental and ecological factors associated with co-endemic areas of *Schistosoma mansoni* and *S. haematobium* in sub-Saharan Africa (SSA)
- 2020~present Arturo J. Sosa, undergraduate student in sociology and public health: providing guidance on an ecological study looking at water, sanitation, and hygiene (WASH) conditions and stunting among children in east Africa
- 2020~present Kaitlin Berabe, undergraduate student in sociology and public health: providing guidance on a project looking at co-infections of schistosome and giardia in sub-Saharan Africa (SSA)
- 2018~2020 Lina Babiker, undergraduate student in health science: provided guidance on a project assessing spatial relationships of improved vs. unimproved sanitation in urban Maputo
- 2016~2019 Lindsay Richards, undergraduate student in biology: provided guidance on a project on reviewing schistosomiasis transmission and non-human primates in Africa (a resulting manuscript was published in *Infectious Diseases of Poverty*) and served as honors thesis advisor (the mentee won UF's campus-wide Undergraduate Research Symposium best paper competition in the STEM/Medicine category)
- 2014~2017 Kamran Ali, undergraduate student in biology: provided guidance on his thesis work on emerging zoonotic diseases and water, sanitation, and hygiene (focus on literature review)
- 2013~2015 Chelsea Stacy, undergraduate student in PreMed: provided funding and guidance on her Honor thesis on seasonality of cholera outbreaks based on time-series data from multinational studies
- 2008~2011 Cancan Zhang, undergraduate student in bio-engineering: provided funding and guidance to support a project developing a simulation package on human exposure to schistosomiasis and treatment

*Postdoctoral Trainees & Visiting Scholars/Scientists*

- 2015~2016 Dr. Jose Roberto Lima (Maj), from Brazil, received training on one health approach to vector-borne disease surveillance
- 2015~2016 Dr. Maria Rivero (Fulbright Scholar), from National Institute of Tropical Medicine, Argentina, was Fulbright Scholar with us at the University of Florida. Advising on her analytic work (modeling) on enteric parasitic

- infections and socio-environmental determinants in the tri-border area of Argentina and results were published in *PLoS NTDs*
- 2014~2015 Dr. Raj Karan Singh, from National Research Center on Mithun, Jharnapani, Medziphenma, Nagaland, India, received training on one health, mapping and geospatial analysis of zoonotic diseases
- 2014~2019 Dr. Arabi Mouhaman, from University of Maroua, Cameroon, received training on geospatial analysis skills as applied to cholera outbreak data in the Far North Region of Cameroon
- 2005~2019 Dr. Moussa Diaouda, from University of Maroua, Cameroon, received training on transmission modeling skills as applied to cholera outbreaks data in the Far North Region of Cameroon
- 2013~2014 Dr. Xianing Huang, from Center of Quarantine and Inspection, Guangxi Province, received training on quantitative risk assessment on zoonotic pathogens
- 2013~2014 Dr. Meixia Yang, from Xuhui CDC of Shanghai, China, received training on quantitative and spatial analysis skills applied to TB surveillance
- 2010~2011 Dr. Yibiao Zhou, from Fudan University of China, spent a year with us working on transmission models and control of schistosomiasis in lake environment of China
- 2009~2010 Dr. Kun Yang, from Jiangsu Institute of Parasitic Diseases, did one-year postdoctoral research on socio-environmental determinants of global distribution of water-associated infectious diseases outbreaks

### Course Development

- 2020- Environmental and One Health. Many health challenges face complex and inextricable links between human, animal, and environmental health, necessitating a systems approach to *One Health*. This intermediate level course introduces concepts, theories, and applications of environmental health sciences in the context of one health (graduate)
- 2017-2018: Quantitative Assessment of Environmental Health Impacts. This course complements existing environmental health and method courses, and strengthens and broadens skill sets available to students through applied training to bridge the theory-application gaps. The course introduces applied modeling of environmental health impact assessment for graduate students (environmental health sciences, epidemiology, medical geography, and biology majors) and health professionals by focusing on environmental burden of diseases, risk assessment, transmission and control of environmentally-mediated infectious pathogens through the use of statistical and mathematical tools (graduate)
- 2013-2017 Occupational & Environmental Health in Agricultural Settings. The purpose of the course is to introduce students to major environmental and occupational hazards in agricultural settings in both developed and developing countries, their epidemiology and associated disease burdens, and approaches to field investigation (graduate)
- 2012~now Introduction to Foodborne Diseases. The purpose of the course is to introduce students to major foodborne pathogens, their epidemiology and associated disease burdens, approaches to outbreak investigation and control of foodborne illness (graduate and undergraduate)

- 2009 ~ 2015 PH850, Modeling Transmission and Control of Infectious Diseases in Humans and Animals. The course provides an introduction to computer models of infectious disease transmission and their application (graduate)
- 2007~2012 PH-EHS 530, Current Topics in Environmental Health Sciences (undergraduate)
- 2007~2012 PH-EHS 735, Water and Human Health Risks (graduate and undergraduate)
- 2006~2007 PH-EHS 731, Principles of Environmental Health Sciences (graduate)
- 2006~2012 PH-EHS 685, Field Experience in Environmental Health (graduate, no lecture)
- 2005~2006 EHS-150/A, Water and Public Health (undergraduate)
- 2005~2006 Quantitative methods in the study of parasitic diseases, Center for Disease Control and Prevention, Chengdu, Sichuan, China

## **GRANT, CONTRACTS, AND OTHERS**

### Active National/International Grants and Contracts

- Exposure Assessment of *Campylobacter* Infections in Rural Ethiopia (EXCAM) (PI, 11/2019 – 12/2021, The Bill & Melinda Gates Foundation)
- Spatial-temporal data integration methods for infectious disease surveillance. (Sub-award PI, 2/1/2017 – 3/31/2023, NIH/NIAID R01, Prime PD: Remais, UCB)

### Completed:

- WSC-Category 3: Analytical methods for estimating the joint climatological-social drivers of water quality and supply in contrasting tropical zones (Sub-award PI, 9/2014 – 8/2019, NSF)
- Population density, neighborhood-level sanitation access, and health in urban Maputo (Sub-award PI, 1/2016 – 4/30/2018, USAID, Prime Institution LSHTM)
- Assessing relative effectiveness of diagnostic techniques for schistosomiasis in non-human animals and implications for control (PI, 10/2017 – 3/2019, the World Health Organization (WHO))
- Livestock movements and disease epidemiology in the Chad Basin: modeling risks for animals and humans (Co-PI; 10/2010 – 4/2018; NSF/EEID Program; PD: Garabed, OSU)
- Florida Integrated Food Safety Center of Excellence (Co-PI, 6/2013-5/2017, CDC, PI: Morris)
- Ensuring safe drinking water in Lake Erie: quantifying extreme weather impacts on cyanobacteria and disinfection byproducts (Sub-award PI; 6/2012 – 5/2015; EPA STAR Program; PI: Lee)
- Minimizing transmission of AMR from wildlife to livestock: a research, prevention, and outreach strategies (Co-PI; 9/1/2011 – 8/30/2015; USDA/NIFA Program; PI: LeJeune)
- Spatio-temporal pattern of cholangiocarcinoma and risk factors in Thailand (PI; 3/2012 – 2/2014, American Society of Cancer)
- The Socio-Environmental Determinants of Schistosomiasis Re-emergence (Sub-award PI; 4/2007- 3/2012; NIH/NIAID R01; PI: Spear)

- The global impact of terrestrial surface waters on the distribution of water-related infectious diseases (PI, 10/2008-9/2011, CWC/PHPID, OSU)
- Pilot study of livestock movements and disease epidemiology in the Chad basin : modeling risks for animals and humans (Co-PI, 9/2009 – 8/2011, TIE/PHPID, PI : Garabed)
- Livestock movements and disease transmission in the Chad Basin : modeling risks for animals and humans (Co-PI; 10/2009 – 09/2011, IPR/OSU, PI:Moritz)
- Pilot Testing: Epidemiological surveillance and investigation of illness reported by neighbors of biosolids land application and other soil amendments (PI: Liang; 1/2009 – 12/2010; Water Environment Research Foundation)
- The influence of environmental change on schistosomiasis transmission in the Poyang Lake region (PI; 12/2007 – 11/2009, TIE/PHPID/OSU)
- Local strategies for schistosomiasis control (Researcher and Project Manager; 6/2002 – 5/2007, NIH/NIAID R01, PI: Spear)

**LIST OF BOOKS, PUBLISHED PAPERS, AND MANUSCRIPTS IN PRESS & UNDER REVIEW**

Senior/principal author(s) = Underline.

Fellow = f

Graduate Student = g

Other = &

Post-Doctoral Associate/Fellow = p

***Manuscripts under review***

1. Griggs, E., Li, X., Collender, P., Cheng Q., Heaney, A., Sajewski, E., Remais, J., Liang, S., Yang, C., Lopman, B. (2021). Changing seasonality of infectious diarrhea in Sichuan, China from 2005 to 2018.
- 2.

***Pre-print Publications (non-peer reviewed)***

1. Collender, P., Hu, Z., Li, C., Cheng, Q., Li, X., You Y., Liang, S., Yang, C., Remais, J. (2020). Machine-learning classifiers for logographic name matching in public health applications: approaches for incorporating phonetic, visual, and keystroke similarity in large-scale probabilistic record linkage. eprint arXiv:2001.01895
2. Cheng, Q., Collender, P., Heaney, A.K., Li, X., Dasan, R., Li, C., Lewnard, J., Zelner, J., Liang, S., Chang, H., Waller, L., Lopman, B., Yang, C., Remais, J. (2020). Towards a simulation framework for optimizing infectious disease surveillance: An information theoretic approach for surveillance system design. medRxiv, doi: <https://doi.org/10.1101/2020.04.06.20048231>
3. Liang, S., Ponpetch, K., Zhou, Y., Guo, J., Erko, B., Lo, N., Stothard, R., Hagan, P., Murad, H., Zhou, X., Satrija, F., Webster, J., Remais, J., Utzinger, J., Garbam A. (2021). Diagnosis of *Schistosoma* infections in non-human animal hosts – a systematic review and meta-analysis. *Preprint*, DOI: 10.20944/preprints202105.0075.v1

### Peer-reviewed publications

1. Liang, S., Ponpetch, K., Zhou, Y., Guo, J., Erko, B., Stothard, R., Murad, H., Zhou, X., Satrija, F., Webster, J., Remais, J., Utzinger, J., Garba A. (2022). Diagnosis of *Schistosoma* infections in non-human animal hosts – a systematic review and meta-analysis. *PLoS Negl Trop Dis* 16(5): e0010389. <https://doi.org/10.1371/journal.pntd.0010389>
2. Nathan C Lo, Fernando Schemelzer Moraes Bezerra, Daniel G Colley, Fiona M Fleming, Mamoun Homeida, Narcis Kabatereine, Fatma M Kabole, Charles H King, Margaret A Mafe, Nicholas Midzi, Francisca Mutapi, Joseph R Mwanga, Reda M R Ramzy, Fadjar Satrija, J Russell Stothard, Mamadou Souncalo Traoré, Joanne P Webster, Jürg Utzinger, Xiao-Nong Zhou, Anthony Danso-Appiah, Paolo Eusebi, Eric S Loker, Charles O Obonyo, Reginald Quansah, Song Liang, Michel Vaillant, M Hassan Murad, Paul Hagan, Amadou Garba (2022). Review of 2022 WHO guidelines on the control and elimination of schistosomiasis. *The Lancet Infectious Diseases*, 2022,ISSN 1473 3099,[https://doi.org/10.1016/S1473-3099\(22\)00221-3](https://doi.org/10.1016/S1473-3099(22)00221-3).
3. Stephenson, C., Coker, E., Wisely, S., Liang, S., Dinglasan, R.R., Lednicky, J. A., (2022). Imported dengue case number and local climate pattern are associated with dengue virus transmission in Florida, USA. *Insects*. **2022**, 13, 163. <https://doi.org/10.3390/insects13020163>
4. Rivero MR, De Angelo C, Feliziani C, Liang S, Tiranti K, Salas MM, Salomon OD (2022). Enterobiasis and its risk factors in urban, rural and indigenous children of subtropical Argentina. *Parasitology* 149, 396–406. <https://doi.org/10.1017/S0031182021001955>
5. Ponpetch, K<sup>s</sup>., Erko, B., Bekana, T., Kenede, T., Tian, D., Yang, Y., Liang, S. (2021). Environmental drivers and potential distribution of *Schistosoma mansoni* endemic areas in Ethiopia. *Microorganisms*, 9(10) PMC8541272 doi: [10.3390/microorganisms9102144](https://doi.org/10.3390/microorganisms9102144)
6. Ponpetch, K<sup>s</sup>., Erko, B., Bekana, T., Richards, L., Liang, S. (2021). Biogeographical characteristics of *Schistosoma mansoni* endemic areas in Ethiopia: a systematic review and meta-analysis. *Infectious Diseases of Poverty* **10**, 83 (2021). <https://doi.org/10.1186/s40249-021-00864-x>
7. Steck, M., Okech, B., Liang, S., Xue, R.D., Quakks, W. (2021). Relationship of precipitation and habitat to the spatial and temporal abundance of *Aedes atlanticus* and *Aedes infirmatus* in St. Johns County, Florida. *Journal of the Florida Mosquito Control Association*, 68(1):1-14. DOI: <https://doi.org/10.32473/jfmca.v68i1.129095>
8. Bekana, T., Berhe, N., Eguale, T., Aemero, M., Medhin, G., Tulu, B., G/hiwot, Y., Liang, S., Hu, W., Erko, B. (2021). Prevalence and factors associated with intestinal schistosomiasis and human fascioliasis among school children in Amhara Regional State, Ethiopia. *Tropical Medicine and Health*.49:35. <https://doi.org/10.1186/s41182-021-00326-y>
9. Djaouda, M., Wadoubé, Liang, S., Nola, M. (2021). Scarcity of potable water and sanitation facilitates in the endemic cholera regions of north Cameroon. *International Journal of Infectious Diseases*, 101(S1)330-335 (abstract)
10. Yang, X., Zhang, Q., Ma, L., Sun, Q. X., Liang, S., Zhou, J.X. (2021). Afforestation suppresses *Oncomelania hupensis* snail density through influencing algae in beaches of the Dongting Lake. *PLoS NTDs*, 15(2): e0009100. Doi:10.1371/journal.pntd.0009100

11. Zhao, G.P., Wang, Y.X., Fan, Z.W., Ji, Y., Liu, M.J., Zhang, W.H., Li, X.L., Zhou, S.X., Li, H., Liang, S., Liu, W., Yang, Y., Fang, L.Q. (2021). Mapping ticks and tick-borne pathogens in China. *Nature Communication*, 12(1):1075. Doi:10.1038/s41467-21375-1
12. Cheng, Q., Collender, P., Heaney, A.K., Li, X., Dasan, R., Li, C., Lewnard, J., Zelner, J., Liang, S., Chang, H., Waller, L., Lopman, B., Yang, C., Remais, J. (2020). The DIOS framework for optimizing infectious disease surveillance: Numerical methods for simulation and multi-objective optimization of surveillance network architectures. *PLoS Comput Biol*, 16(12):e1008477.
13. Djaouda, M., Wadoube, Z., Baponwa, O., Youssoufa, S., Cake, B., Liang, S. Nola M. (2020). Survival and growth of *Vibrio cholerae* and *Escherichia coli* in treated groundwater consumed in northern Cameroon. *Applied Water Science*, 10-242. <https://doi.org/10.1007/s13201-020-01328-7>
14. Cheng, Q., Trangucci, R., Nelson, K., Gu, W., Collender, P., Head, J., Hoover, C., Skaff, N., Li, T., Li, X., You, Y., Li, T., Zhang, H., Fang, L., Liang, S., Yang, C., He, J., Zelner, J., Remais, J. (2020). Prenatal and early-life exposure to the great Chinese famine increases the risk of pulmonary tuberculosis in adulthood across two consecutive generations: a population-based retrospective cohort study in China. *PNAS*, 117(44): 27549-27555 [DOI] 10.1073/pnas.2008336117
15. Cucchi, K., Liu, R., Collender, P., Cheng, Q., Li, C., Hoover, C., Chang, H., Liang, S., Yang, C., Remais, J (2019). Hydroclimatic drivers of highly seasonal leptospirosis incidence suggest prominent soil reservoir of pathogenic *Leptospira* spp. in rural western China. *PLoS Neglected Tropical Diseases*. 2019 Dec 26;13(12):e0007968. doi: 10.1371/journal.pntd.0007968
16. Richards, L<sup>u</sup>, Delgado, C., Goy, M., Liang, S., Periago, M. (2019). Prevalence of intestinal parasites and related risk factors in rural localities from Pampa del Indio, Chaco, Argentina. *Journal of Undergraduate Research*, 21:1-11
17. Zoua, W., Djaouda, M., Maiwore, J., Liang, S. Nola, M. (2019). Scarcity of potable water and sanitation facilities in the endemic cholera region of North Cameroon. *Journal of Environment Pollution and Human Health*. 2020, 8(1), 6-19. DOI: 10.12691/jephh-8-1-2
18. Li, T., Cheng, Q., Li, C., Stokes, E., Collender, P., Ohringer, A., Li, X., Li, J., Zelner, J., Liang, S., Yang, C., Remais, J., He, J. (2019). Evidence for heterogeneity in China's progress against pulmonary Tuberculosis: uneven reductions in a major center of ongoing transmission, 2005-2017. *BMC Infectious Diseases*. 19(1):615. doi: 10.1186/s12879-019-4262-2
19. Kingsaward, K., Krongthamchat, K., Puttanapong, N., Tangsaward, S., Liang, S. (2019). Spatio-temporal distribution of malaria in Thailand from 2006-2015. *Journal of Communicable Diseases*, 51(2):45-53
20. Head, J., Collender, P., Lewnard, J.A., Skaff, N.K., Li, L., Ohringer, A., Cheng, Q., Baker, J. Li, C., Chen, D., Liang, S., Yang, C., Hubbard, A., Lopman, B., Remais, J. (2019). Early evidence of inactivated enterovirus 71 vaccine impact against hand, foot, and mouth disease in a major center of ongoing transmission in China, 2011-2018: a longitudinal surveillance study. *Clinical Infectious Diseases*, ciz1188, <https://doi.org/10.1093/cid/ciz1188>
21. Richards, L<sup>u</sup>, Erko, B., Ponpetch, K., Ryan, S., Liang, S. (2019). Assessing the nonhuman primate reservoir of *Schistosoma mansoni* in Africa: a systematic review. *Infectious Diseases of Poverty*, 8:32, <https://doi.org/10.1186/s40249-019-0543-7>



22. Bekana, T., Hu, W., Liang, S., Erko, B. (2019). Transmission of *Schistosoma mansoni* in Yachi areas, southwestern Ethiopia: new foci. *Infectious Diseases of Poverty*, 10;8(1):1. doi: 10.1186/s40249-018-0513-5.
23. Rivero, M.R.<sup>p</sup>, De Angelo, C., Nunez, P., Salas, M., Salmon, O.D., Liang, S. (2018). Intestinal parasitism and nutritional status among indigenous children from the Argentinian Atlantic Forest: Determinants of enteroparasite infections in minority populations. *Acta Tropica*, 187: 248-256.  
<https://doi.org/10.1016/j.actatropica.2018.08.015>
24. Klase, G., Lee, S., Liang, S., Kim, J., Zo, Y., Lee, J. (2019). Integrated aquaculture in rural China: potential sources of exposure to bacterial pathogens and antibiotic resistance in water. *The Total Science of Environment*, 649: 1491-1501
25. Liang, S., Abe, E.M., Zhou, X.N. (2018). Integrating ecological approaches to interrupt schistosomiasis transmission: opportunities and challenges. *Infectious Diseases of Poverty*, 2018 Dec 12;7(1):124. doi: 10.1186/s40249-018-0506-4.
26. Yang J, Siri JG, Remais JV, Cheng Q, Zhang H, Chan KKY, Sun Z, Zhao Y, Cong N, Li X, Zhang W, Bai Y, Bi J, Cai W, Chan EYY, Chen W, Fan W, Fu H, He J, Huang H, Ji JS, Jia P, Jiang X, Kwan MP, Li T, Li X, Liang S, Liang X, Liang L, Liu Q, Lu Y, Luo Y, Ma X, Schwartländer B, Shen Z, Shi P, Su J, Wu T, Yang C, Yin Y, Zhang Q, Zhang Y, Zhang Y, Xu B, Gong P. (2018). The Tsinghua-Lancet Commission on Healthy Cities in China: unlocking the power of cities for a healthy China. *Lancet*, 391(10135): 2140-2184 doi: 10.1016/S0140-6736(18)30486-0.
27. Ngwa, M.<sup>g</sup>, Young, A., Liang, S., Blackburn, J., Mouhaman, A., Mevoula, O., Morris, J.G., Jr. (2017). Cultural factors behind cholera transmission in the Far North Region of Cameroon: a field experience and implications for operational level planning of interventions. *Pan African Medical Journal*, 28:311. doi: 10.11604/pamj.2017.28.311.13860. eCollection 2017.
28. Adugna, S., Kebede, T., Mekonnen, Z., Degarege, A., Liang, S., Erko, B. (2018). Diagnostic performance of Mini Parasep® solvent-free faecal parasite concentrator related to Kato-Katz and McMaster for the diagnosis of intestinal parasitic infections. *Trans. Royal Soc. Trop. Med. Hgy.*, 111 (12): 572-578,  
<https://doi.org/10.1093/trstmh/try010>
29. Teklemariam, D.<sup>g</sup>, Legesse, M., Degarege, A., Liang, S., Erko, B. (2018). *Schistosoma mansoni* and other intestinal parasitic infections in schoolchildren and vervet monkeys in Lake Ziway area, Ethiopia. *BMC Res Notes*, doi: 10.1186/s13104-018-3248-2.
30. Djaouda, M., Leche, A., Maine, M.K., Wadoubé, A., Liang, S., Nola, M., Njné, T. (2018). Assessment of bacteriological quality of ground water from boreholes in Maroua (Far North Cameroon). *International Journal of Biological and Chemical Sciences*, 12(2): 958-974.
31. Alemayehu, B.<sup>g</sup>, Tomass, Z., Wadilo, F., Leja, D., Liang, S., Erko, B. (2018). Epidemiology of intestinal helminthiasis among schoolchildren with emphasis on *Schistoma mansoni* infection in Wolaita Zone, southern Ethiopia. *BMC Public Health*, 17(1):587. doi: 10.1186/s12889-017-4499-x.
32. Spear, R., Zhong, B., Liang, S. (2017). Low transmission to elimination: rural development as a key determinant of the end-game dynamics of *Schistosoma japonicum* in China. *Trop. Med. Infect. Dis.*, 2017, 2, 35; doi:10.3390/tropicalmed2030035
33. Liang, S., Kintziger, K., Reaves, P., & Ryan, S. J. (2017). Climate change impacts on human health. In E. P. Chassignet, J. W. Jones, V. Misra, & J.



- Obeyssekera (Eds.), *Florida's climate: Changes, variations, & impacts* (pp. 125–152). Gainesville, FL: Florida Climate Institute.  
<https://doi.org/10.17125/fci2017.ch04>
34. Rivero, M.R<sup>P</sup>., De Angelo, C., Nunez, P., Salas, M.M., Motta, C.E., Chiarerra, A., Salomon, D., Liang, S. (2017). Multilevel determinants and spatial risk modeling of intestinal parasite infections in a subtropical areas of Latin America. *PLoS NTDs*, <https://doi.org/10.1371/journal.pntd.0006098>
  35. Jiang, B.G., Liang, S., Peng, Z.R., Morgan, L., Chen, Q., Wang, T.B., Remais, J. (2017). Transport and public health in China: the road to a healthy future. *The Lancet*, 390(10104):1781-1791. doi: 10.1016/S0140-6736(17)31958-X.
  36. Zhang, F<sup>g</sup>., Hu, C.L., Shum, C.K., Liang, S., Lee, J.Y. (2017). Satellite remote sensing of drinking water intakes in Lake Erie for cyanobacteria population using two MODIS-based indicators as a potential tool for toxin tracking. *Frontiers of Marine Science*, 124(4), doi: 10.3389/fmars.2017.00124
  37. Tian, D., Tian, J., Xie, G., Tseng, S., Shum, C.K., Lee, J., Liang, S.(2017). Spatiotemporal variability and environmental factors of harmful algal blooms (HABs) over western Lake Erie, USA. *PLoS One* ;12(6):e0179622. doi: 10.1371/journal.pone.0179622. eCollection 2017.
  38. Liu, Y., Zhong, B., Wu, ZS., Liang, S, Qiu DC, Ma, X.(2017). Interruption of schistosomiasis transmission in mountainous and hilly regions with an integrated strategy: a longitudinal case study in Sichuan, China. *Infect Dis Poverty*. 2017 Apr 7;6(1):79. doi: 10.1186/s40249-017-0290-6.
  39. Ngwa, M<sup>g</sup>., Liang, S., Kracalik, I., Morris, L., Blackburn, J., Mbam. L., Baonga Ba Pouth, S.F., Teboh, A., Yang, Y., Sugimoto, J., Morris, J.G., Jr. (2016). Cholera in Cameroon, 2000-2012: spatial and temporal analysis at the operational (health district) and sub climate levels. *PLoS Negl Trop Dis* 10(11): e0005105. doi:10.1371/journal.pntd.0005105
  40. Ngwa, M.C<sup>g</sup>., Liang, S., Mbam, L.M., Mouhaman, A., Teboh, A., Brekmo, K., Mevoula, O., Morris, J.G. Jr. (2016). Cholera public health surveillance in the Republic Cameroon – opportunities and challenge. *Pan African Medical Journal*. 2016; 24:222 doi:10.11604/pamj.2016.24.222.8045
  41. Ngwa, M.C<sup>g</sup>., Masalla, T., Esemu, S. Foche, Francis, Akaochere, J.F. Cella, E., Liang, S., Salemi, M., Morris, J. G., Jr., Ali, A., Ndip, L. (2016) Genetic studies of *Vibio cholerae* in South West Cameroon – A phylodynamic analysis of isolates from the 2010-2011 epidemic. *PLoS Currents: Outbreaks*, DOI: [10.1371/currents.outbreaks.13b4e5e36a5c0831a1663fbd5713fe9](https://doi.org/10.1371/currents.outbreaks.13b4e5e36a5c0831a1663fbd5713fe9)
  42. Zhou, Y.B., Liang, S., Jiang, Q. W. (2016). The Three Gorges Dam: Does it facilitate or delay progress towards the elimination of schistosomiasis in China? *Infectious Disease of Poverty* ;5(1):63. doi: 10.1186/s40249-016-0156-3.
  43. Zhou, Y., Chen, Y., Liang, S., Chen, G.X., He, Z., Cai, B., Yihuo, W., He, Z. G., Jiang, Q.W. (2016) Multi-host model and threshold of intermediate host *Oncomelania* snail density for eliminating schistosomiasis in China. *Scientific Reports*, doi: 10.1038/srep31089.
  44. Wang, X.Y., He, J., Yang, K., Liang, S. (2016). Applications of spatial technology in schistosomiasis control programs. *Advances in Parasitology*, 92: 1-24 <http://dx.doi.org/10.1016/bs.apar.2016.02.020>
  45. Li XL, Yang Y, Sun Y, Chen WJ, Sun RX, Liu K, Ma MJ, Liang S, Yao HW, Gray GC, Fang LQ, Cao WC (2015). Risk Distribution of Human Infections with Avian Influenza H7N9 and H5N1 virus in China. *Sci Rep.*, 22;5:18610. doi: 10.1038/srep18610 PMID: 26691585; PMCID: PMC4686887.

46. Li X, Wang D, Li B, Zhou H, Liang S, Ke C, Deng X, Kan B, Morris JG Jr, Cao W (2015). Characterization of environmental *Vibrio cholerae* serogroups O1 and O139 in the Pearl River Estuary, China. *Can J Microbiol.*, 18:1-9
47. Khan SU, Anderson BD, Heil GL, Liang S, Gray GC (2015). A Systematic Review and Meta-Analysis of the Seroprevalence of Influenza A(H9N2) Infection Among Humans. *J Infect Dis.*, 212(4):562-9. doi: 10.1093/infdis/jiv109. Epub 2015 Feb 23. Review. PMID: 25712969; PMCID: PMC4598807.
48. Fang LQ, Goeijenbier M, Zuo SQ, Wang LP, Liang S, Klein SL, Li XL, Liu K, Liang L, Gong P, Glass GE, van Gorp E, Richardus JH, Ma JQ, Cao WC, de Vlas SJ (2015). The association between hantavirus infection and selenium deficiency in mainland China. *Viruses*, 7(1):333-51. doi: 10.3390/v7010333. PMID: 25609306; PMCID: PMC4306842.
49. Liang, S. (2015) Towards a new era of human health and civilization – planetary health. *Science Bulletin*, 60(30):2804-2805
50. Zhou, Y.B., Wang, Q.X., Liang, S., Gong, Y.H., Yang, M.X., Chen, Y., Nie, S.J., Nan, L., Yang, A.H., Liao, Q., Yang, Y., Song, X.X., Jiang, Q. W (2015). Geographical variations in risk factors associated with HIV infection among drug users in a prefecture in Southwest China. *Infectious Diseases of Poverty*, 4:38 DOI 10.1186/s40249-015-0073-x
51. Fang, L.Q., Liu, K., Li, X.L., Liang, S., Yang, Y., Yao, H.W., Sun, R.X., Sun, Y., Chen, W.J., Zuo, S.Q., Ma, M.J., Wang, J.L., Jiang, J.F., Gray, G., Yang, F., Cao, W. (2015). Emerging tick-borne diseases in China – an increasing public health threat. *Lancet Infectious Diseases*, 15(12):1467-79
52. Lee, J., Tseng, K.H., Zhang, F., Lee, C.H., Marion, J., Liang, S., Shum, C.K. (2015). From Satellite to genes: an integrative approach for timely monitoring of harmful cyanobacteria in Lake Beach Water. *Journal of Environmental Pollution and Human Health*, 3(3): 70-79
53. Brown J, Cumming O, Bartram J, Cairncross S, Ensink J, Holcomb D, Knee J, Kolsky P, Liang K, Liang S, Nala R, Norman G, Rheingans R, Stewart J, Zavale O, Zuin V, Schmidt WP (2015). A controlled, before-and-after trial of an urban sanitation intervention to reduce enteric infections in children: research protocol for the Maputo Sanitation (MapSan) study, Mozambique. *BMJ Open*. 18;5(6):e008215. doi: 10.1136/bmjopen-2015-008215. PMID: 26088809; PMCID: PMC4480002.
54. Yang, Y., Zhang, Y., Fang, L., Halloran, M.E., Ma, M., Liang, S., Kenah, E., Britton, T., Chen, E., Hu, J., Tang, F., Cao, W., Feng, Z., Longini Jr., I.M. (2015). Household transmissibility of avian influenza A (H7N9) virus, China, February to May 2013 and October 2013 to March 2014. *Eurosurveillance*, 20(10): 6-11
55. Zhang, F<sup>9</sup>, Lee, J.Y., Liang, S., Shum, C.K. (2015). Cyanobacteria blooms and non-alcoholic liver disease: evidence from a county level ecological study in the United State. *Environmental Health*, 14:41 DOI: 10.1186/s12940-015-0026-7
56. Wu, J.Y., Zhou, Y.B., Chen, Y., Liang, S., Li, L.H., Zheng, S.B., Zhu, S.P., Ren G.H., Song, X.X., Jiang, Q. W. (2015). The Three Gorges Dam: Impact of water level on the density of schistosome-transmitting snail *Oncomelania hupensis* in Dongting Lake Area, China. *PLoS NTDs* 9(6):e0003882. doi:10.1371/journal.pntd.0003882
57. Ngassam, R.I.K<sup>9</sup>, Kouninki, H., Monglo, M., Djekine, E., Liang, S., Tchuem Tchuente, L.A. (2014). Identification and mapping of some potential transmission foci of schistosomiasis in Maroua, Far North Region, Cameroon. *International Journal of Innovation and Applied Studies*, 7(1): 65-77

58. Zheng, N.C., Liu, Y.H., Liang, B.N., Xu, J.F., Fang, Y.Y., Yang, Y., Liang, S. (2014). Current prevalence of *Clonorchis sinensis* infections in Jiangmen, Guangdong Province. *Chinese Journal of Parasitology and Parasitic Diseases*, 6: 441-445
59. Mouhaman, A<sup>9</sup>., Xiao, N., Taiwe, K.D., Liang, S. (2014): Cholera incidence in the Far North Region of Cameroon: a geographical perspective. *African Journal of Social Sciences*, 5(3):141-157
60. Liang, S., Yang, C., Zhong, B., Guo, J., Li, H., Carlton, E.J., Matthew C.F., Remais, J.V. (2014). Surveillance systems for neglected tropical diseases: global lessons from China's evolving schistosomiasis reporting systems, 1949 – 2014. *Emerging Themes in Epidemiology*, 11(9): 1-14
61. Hodges, M., Belle, J., Carlton, E., Liang, S., Li, H., Luo. W., Freeman, M., Liu, Y., Gao Y., Hess, J., Remais, J. (2014). Delays reducing waterborne and water-related infectious diseases in China under climate change. *Nature Climate Change*, 4:1109-1115
62. Liu K, Cui N, Fang LQ, Wang BJ, Lu QB, Peng W, Li H, Wang LY, Liang S, Wang HY, Zhang YY, Zhuang L, Yang H, Gray GC, de Vlas SJ, Liu W, Cao WC (2014). Epidemiologic features and environmental risk factors of severe fever with thrombocytopenia syndrome, Xinyang, China. *PLoS Negl Trop Dis*, 8(5):e2820. doi: 10.1371/journal.pntd.0002820. eCollection 2014 May. PubMed PMID: 24810269; PubMed Central PMCID: PMC4014392.
63. Zhou, Y., Liang, S., Wang, Q. X., Gong, Y.H., Nie, S.J., Nan, L., Yang, A. H., Liao, Q., Song, X.X., Jiang, Q.Q. (2014). The geographical distribution patterns of HIV-, HCV-, and Co-infections among drug users in a national methadone maintenance treatment program in Southwest China. *BMC Infectious Disease*, 14(134): 1:10
64. Convertino, M., Liang, S. (2014). Probabilistic supply chain risk model for food safety. *Planet@Risk (Special Issue on One Health)* , 2(3):1-5
65. Tseng, K.H<sup>P</sup>., Liang, S., Ibaraki, M., Lee, H., Shum, C.K. (2014). Study of the variation of schistosomiasis risk in Lake Poyang in the People's Republic of China using multiple space-borne sensors for monitoring and modeling. *Geospatial Health*, 8(2): 1:12
66. Djaouda<sup>9</sup>, M., Njine, T. Liang, S., Ebang Menye, D., Gake, B., Zebaze Togouet S.H., Nola M. (2014). Bacteriological quality of well waters in Garoua, North Cameroon. *Water Quality, Exposure, and Health*, 3(2):1-18 (DOI: 10.1007/s12403-014-0120-z)
67. Yang, K<sup>P</sup>., Xu, J., Zhang, J., Li, W., He J., Liang, S., Bergquist, R. (2014). Establishing and applying a schistosomiasis early warning index (SEWI) in the Lower Yangtze River Region of Jiangsu Province, China. *PLoS One*, 9(4):1-9 (e94012)
68. Li, Y.J., Li, X. Liang, S., Fang, L., Cao, W.C. (2013). Epidemiological features and risk factors associated with the spatial and temporal distribution of human brucellosis in China. *BMC Infectious Diseases*, 13:547
69. Zhou, Y. B., Liang,S., Chen, G.X., Jiang, Q. W. (2013) Spatio-temporal variations of *Schistosoma japonicum* distribution after an integrated national control strategy: A cohort in a marshland area of China. *BMC Public Health*, 2013, 13:297 [PMID: 23556428]
70. Cheung, M.Y<sup>9</sup>., Liang, S., Lee, J. (2013)Toxin-producing cyanobacteria in freshwater: a review of the problems, impact on drinking water safety, and efforts for protecting public health. *Journal of Microbiology*, 51(1): 1-10

71. Moore, J. L., Liang, S., Akullian, A., Remais, J. (2012). Cautioning the use of degree-day models for climate change projections: predicting the future distribution of parasite hosts in the presence of parametric uncertainty. *Ecological Applications*, 22(8): 2237-2247
72. Zhou, Y.B., Liang, S., Jiang, Q.W. (2012). Factors impacting on progress towards elimination of transmission of schistosomiasis japonica in China. *Parasites & Vectors*, 5(275):1-7 (PMCID: PMC3519747)
73. Qian, M.B., Chen, Y.D., Liang, S., Yang, G.J., Zhou, X.N. (2012). The global epidemiology of clonorchiasis and its relation with cholangiocarcinoma. *Infectious Diseases of Poverty*, 1(4): 1-11
74. Carlton E, Liang S, McDowell J, Li H, Luo W, Remais J (2012). Regional disparities in the burden of disease attributable to unsafe water and sanitation in China. *Bulletin of World Health Organization*, 90(8):578-87
75. Gao, H.W<sup>9</sup>, Wang, L.P., Liang, S., Liu, Y.X., Tong, S.L., Wang, J.J., Li, Y.P., Wang, X.F., Yang, H., Ma, J.Q., Fang, L.Q., Cao, W.C. (2012). Change in rainfall drives malaria re-emergence in Anui Province, China. *PLoS One*, 7(8): e43686
76. Yang, K<sup>P</sup>, Lejeune J, Alsdorf. D, Lu, B., Shum CK, Liang S (2012). Global distribution of outbreaks of water-associated infectious diseases. *PLoS NTDs*; 6(2):e1483. (PMCID:PMC3279334)
77. Liang, S., Rosile, P., Buckley, T., Carr, K., Li., J. (2012). Surveillance and investigation of the illness reported by neighbors of biosolids land application and other soil amendments: pilot testing. International Water Association Publishing. DOI: 10.2166/9781843396147
78. Liang, S., Lou, Y. (2012) On the dependence of population size upon random dispersal rate. *Discrete and Continuous Dynamical Systems (Series B)*, 17(8): 2771-2788
79. Fang LQ, Wang LP, de Vlas SJ, Liang S, Tong SL, Li YL, et al. (2012) Distribution and Risk Factors of 2009 Pandemic Influenza A (H1N1) in Mainland China. *Am J Epidemiol.* 175(9):890-7.
80. Gong P, Liang S, Carlton EJ, Jiang Q, Wu J, Wang L, Remais, J. (2012) Urbanisation and health in China. *The Lancet.* 379(9818):843-52.
81. Spear RC, Seto EY, Carlton EJ, Liang S, Remais JV, Zhong B, Qiu, D. (2011) The challenge of effective surveillance in moving from low transmission to elimination of schistosomiasis in China. *Int J Parasitol.* 41(12):1243-7
82. Sithithaworn, P., Andrews, R.H., Van De, N., Wongsarroj, T., Siunon, M, Odermatt, P., Nawa, Y., Liang, S., Brindley, P., Sripa, B. (2011). The current status of opisthorchiasis and clonorchiasis in the Mekong Basin. *Parasitology International, Aug 25 [PMID: 21893213]*
83. Zhou, Y.B., Liang, S., Chen, G.X., Rea, C., Cui, D.Y., He, Z.Gui., Zhang, Z.J., Wei., J.G., Zhao, G.M. , Jiang, Q.W. (2011). An integrated strategy for transmission control of *Schistosoma japonicum* in a marshland area of China: findings from a five-year longitudinal survey and mathematical modeling. *American Journal of Tropical Medicine and Hygiene*, 85(1): 83-88 (PMCID: PMC3122349)
84. Seto EY, Remais JV, Carlton EJ, Wang S, Liang S, Brindley PJ, Qiu D, Spear RC, Wang LD, Wang TP, Chen HG, Dong XQ, Wang LY, Hao Y, Bergquist R, Zhou XN (2011). Toward sustainable and comprehensive control of schistosomiasis in China: lessons from Sichuan. *PLoS Negl Trop Dis.*, 5(10):e1372. doi: 10.1371/journal.pntd.0001372. PMID: 22039563; PMCID: PMC3201916.

85. Qian, M., Zhou, X.N., Fang, Y.Y., Liang, S., Chen, Y. (2011). Strengthening research work on clonorchiasis in China. *Chinese Journal of Parasitology and Parasitic Diseases*, 29(3): 211 – 214
86. Spear, R., Liang, S.(2011) Mathematical modeling as an aid in developing strategy for sustainable interruption of *S. japonicum* transmission in the hilly and mountainous regions of China. *Journal of Schistosomiasis Control*, 23(3):231-236
87. Zhong, B., Wu, Z. Chen, L., Liang, S. Dong, X., Qiu, D. Strengthening schistosomiasis control achievements in hilly regions of China. 2011, *Journal of Schistosomiasis Control*, 23(1):10-13
88. Fang, L.Q., Wang , X.J., Liang, S., Li, Y.L., Song, S.X., Zhang, W.Y., Qian, Q., Li, Y.P., Wei, L., Wang, Z.Q., Yang, H., Cao, W.C. (2010). Spatio-temporal trend and climatic factors of hemorrhagic fever with renal syndrome epidemic in Shandong Province, China. *PLoS NTDs*, 4(8):e789
89. Zhang, J., Zhu, T., Mauzerall, D., Liang, S., Ezatti, M., Remais, J. (2010). Environmental Health in China: progress towards clear air and safe water. *The Lancet*, 375(9720):1110-1119
90. Fang, L.Q., Zhao, W.J., de Vlas, S.J., Zhang, W.Y., Liang, S., Looman, C.W.N., Yan, L., Wang, L.P., Ma, J.Q., Feng D., Yang H., Cao, W.C. (2009). Spatiotemporal dynamics of hemorrhagic fever with renal syndrome in Beijing, a newly-established endemic region. *Emerging Infectious Disease*, 15(12):2043-5
91. Fang, L.Q., de Vlas, S.J., Feng, D., Liang, S., Xu, Y.F., Zhou J.P., Richardus, J.H., Cao, W.C. (2009). Geographical spread of SARS in mainland China. *Tropical Medicine & International Health*, 14( Suppl. I): 1-7
92. Liu, Y.X., Feng, D., Suo, J.J., Xing, Y.B., Liu, G., Liyu, L.H., Xiao, H.J., Jia, N., Gao, Y., Yang, H., Zuo, S.Q., Zhang, P.H., Zhao, Z.T., Min., J.S., Peng, P.T., Ma, S.B., Liang, S., Cao, W.C. (2009). Clinical characteristics of the autumn-winter type scrub typhus cases in south of Shandong Province, Northern China. *BMC Infectious Disease*, 9:82
93. Zhang, W., Wang, L., Fang, L., Ma, J., Xu, Y., Jiang, J., Wang, J., Liang, S., Yang, H., Cao W. (2008). Spatial analysis of malaria in Anhui Province, China. *Malaria Journal* 7(1): 206
94. Tian, L.W., Bi, Y., Ho, S.C., Liu, W.J., Liang, S., Goggins, W. B., Chan, E.Y.Y., Zhou, S., Sung, J.J.Y. (2008) One-year delayed effect of fog on malaria transmission: a time-series analysis in the rain forest areas of Mengla County, south-west China. *Malaria Journal*, 7(110):1-9
95. Fang, L.Q., de Vlas, S.J., Liang, S.<sup>e</sup>, Looman, C. W., Gong, P., Xu. B., Yan, L., Yang, H., Richardus. J.H., Cao, W.C. (2008) Environmental factors contributing to the spread of H5N1 avian influenza in mainland China. *PLoS One*, 5(3):e2268
96. Zhong, B., Liang, S., Xu, F.S., Wu, Z.S., Yang, C.H., Chen, L., Zhang, Y., Meng, X., Qiu, D.C., Spear, R.C. (2008). Risk factors associated with transmission of schistosomiasis in mountainous regions and implications for control. *Chinese Journal of Preventive Medicine*, 42(8):565-568
97. Liang, S., Spear, R.C. (2008). Model-based insights into multi-host transmission and control of schistosomiasis. *PLoS Medicine*, 5(1):e23
98. Remais, J., Liang, S., Spear, R.C. (2008). Coupling hydrologic and infectious disease modeling to explore regional differences in schistosomiasis transmission in southwestern China. *Environmental Science & Technology*, 42(7):2643-2649
99. Eisenberg, J., Desai, M., Levy, K., Bates, S, Liang, S., Naumoff, K., Scott, J. (2007). Environmental determinants of infectious disease: A framework for

- tracking causal links and guiding public health research. *Environmental Health Perspectives*, 115(8): 1216-1223
100. Seto, E., Lee, E., Liang, S., Zhong, B. (2007). Individual and village-level study of water contact exposure patterns and *Schistosoma japonicum* infection in mountainous rural China. *Tropical Medicine and International Health*, 12(10): 1199-1209
  101. Liang, S., Seto, E., Remais, J., Zhong, B., Yang, C., Hubbard, A., Davis, G., Gu, X., Qiu, D., Spear, R.C. (2007) Environmental effects on parasitic disease transmission exemplified by schistosomiasis in Western China. *Proc Natl Acad Sci USA*. 104 (17):7110-7115
  102. Spear, R.C., Seto, E., Remais, J., Carlton, E.J., Davis, G., Qiu, D., Zhou, X., Liang, S. (2006) Fighting waterborne infectious diseases. *Science*, 314, 1081-3.
  103. Fang, L., Yan, L., Liang, S., de Vlas, S.J., Feng, D., Han, X., Zhao, W., Xu, B., Bian, L., Yang, H., Gong, P., Richardus, J.H., & Cao, W. (2006) Spatial analysis of hemorrhagic fever with renal syndrome in China. *BMC Infectious Disease*, 6, 77~
  104. Zhong, B., Liang, S., Zhang, Y., Lai, Y.H., Chen, L., Yin, H.Z., Zhao, Y.M., Lu, J.Q., & Qiu, D.C. (2006) Water exposure modes and times of different populations in mountainous schistosomiasis endemic areas near Qionghai Lake. *Chinese Journal of Preventive Medicine*, 40, 239-243.
  105. Gong, P., Xu, B., & Liang, S. (2006) Remote sensing and geographic information systems in the spatial temporal dynamics modeling of infectious diseases. *Science in China Series C- Life Sciences*, 49, 573-582.
  106. Liang, S., Yang, C.H., Zhong, B., Qiu, D.C. (2006). Re-emerging schistosomiasis in mountainous and hilly region, Sichuan, China. *Bulletin of World Health Organization* 84(2):139-44.
  107. Xu, B., Gong, P., Seto, E., Liang, S, Yang, C., Wen, S., Gu, X., Spear, R.C. (2006). A spatial-temporal model for assessing the effects of inter-village connectivity in schistosomiasis transmission. *Annals of Associations of American Geographers*, 96(1) 31-46
  108. Liang, S., Spear, R.C., Seto, E., Hubbard, A., Qiu, D.C. (2005). A multi-group model of *Schistosoma japonicum* transmission dynamics and control: model calibration and control prediction. *Tropical Medicine and International Health* 10 (3); 273-287.
  109. Xu, B., Gong, P., Biging, G., Liang, S., Seto, E. and Spear, R.C. (2004). Snail Density Prediction for Schistosomiasis Control Using IKONOS and ASTER Images, *Photo. Engr. & Remote Sensing*, 70(11):1285-1294
  110. Xu, B., P. Gong, S. Liang, E. Seto, B. Spear R. C. (2004). Snail density estimation for schistosomiasis control by integrating field survey and multiscale satellite images, *Geographic Information Sciences*, 9(1-2): 97-100
  111. Bodnar, A., Castorina, R., Desai, M., Duramad, P., Fischer, S., Klepeis, N., Liang, S., Mehta, S., Naumoff, K., Noth, E. M., Schei, M., Tian, L., Vork, K. L., and Smith, K. R. (2004). Lessons learned from the Skeptical Environmentalist: an environmental health perspective. *International Journal of Hygiene and Environmental Health* 207, 57-67.
  112. Spear, R. C., Seto, E., Liang, S., Birkner, M., Hubbard, A., Qiu, D. C., Yang, C. H., Zhong, B., Xu, F. S., Gu, X. G., and Davis, G. M. (2004). Factors Influencing the Transmission of *Schistosoma japonicum* in the Mountains of Sichuan Province. *Am. J. Trop. Med. Hyg.* 70, 48-56.

113. Spear, R, Hubbard, A., Liang, S., Seto, E. (2002). Disease Transmission Models for Public Health Decision Making: Toward an Approach for Designing Intervention Strategies for Schistosomiasis japonica. *Environmental Health Perspectives* 110:907-915.
114. Seto, E., Xu, B., Liang, S., Gong, P., Wu, W.P., Davis, G., Qiu, D.C., Gu, X.G., Spear, R. (2002). The use of remote sensing for predictive modeling of schistosomiasis in China. *Photogrammetric Engineering and Remote Sensing* 68:167-174.
115. Liang, S., Maszle, D., Spear, R.C. (2002). A quantitative framework for a multi-group model of Schistosomiasis japonicum transmission dynamics and control in Sichuan, China. *Acta Tropica* 82:263-277.
116. Hubbard, A., Liang, S., Maszle, D., Qiu, D.C., Gu, X.G., Spear, R.C. (2002) Estimating the distribution of worm burden and egg excretion of schistosoma japonicum by risk group in Sichuan Province, China. *Parasitology*, 125:221-231.
117. Seto, E., Liang, S., Qiu, D., Gu, X., Spear, R.C. (2001) A protocol for geographically randomized snail surveys in schistosomiasis fieldwork using the global positioning system. *Am J Trop Med Hyg* 64:98-9.
118. Wen, S., Xu, F., Liang, S. (1998) Investigation of environmental changes in the Three Gorges area: the potential impact on occurrence of schistosomiasis. *Journal of Practical Parasitic Diseases* 2:25-27
119. Gu, X., Xu, F., Liang, S., Qian, X., Zhao, W., Wen, S., Qiu, D., Liu, C. (1997). Effectiveness of stratified anti-measures for controlling schistosomiasis in Zone I, II, III of Xichang Study Area. *Journal of Schistosomiasis Control*, 9(6);338-341
120. Liang, S., Gu, X., Zhao, W.X., Li, X. (1996) Highly risky area and strategies for controlling schistosomiasis in mountainous regions, Sichuan. *Journal of Practical Parasitic Diseases* 4:54-58.
121. Xu, F., Qian, X., Liang, S., Zhao, W., Gu, X. (1996). The effect of schistosomiasis control in Xichang Study Area between 1987 – 1995. *Journal of Practical Parasitic Disease*, 4(3): 129-130
122. Liang, S., Zhao, W.X., He, C.S. (1995) A report of *Schistosoma sinensis* in natural waer systems of Danling County, Sichuan, China. *Sichuan Journal of Zoology* 14:45.
123. Luo, P., Luo, L., Liang, S. (1994). The detection of DNA finger prints with M13 phase of DNA probe in the mouse. *Acta Southwest Nationality University (Natural Science Edition)* 20:289-292.