CURRICULUM VITAE
Szu-Chieh Chen, PhD.

1. Personal Information

Address	110, Sec. 1 Chien-Kuo N. Rd, Taichung, Taiwan, 40201
Tel	+886-4-24730022 ext. 12110
Fax	+886-4-23248179
E-mail	scchen@csmu.edu.tw
Website	http://w3.csmu.edu.tw/~scchen/index.htm

2. Education

Degree	Major Department	Date
Ph.D	Department of Bioenvironmental Systems Engineering, National Taiwan University, Taipei, Taiwan Thesis: *"Transmission dynamics and control for indoor respiratory infections of measles and influenza"*	2004-07
Master	Department of Bioenvironmental Systems Engineering, National Taiwan University, Taipei, Taiwan	2003-04
B.S	Department of Environmental Engineering and Management, Chaoyang University of Technology, Taipei, Taiwan	1999-2003

3. Work Experience

Title	Major Department	Date
Professor	Department of Public Health, Chung Shan Medical University, Taichung, Taiwan	Since Feb. 2015
	***BMC Public Health* Associate Editor**	**Since Dec. 2017**
Associate Professor	Department of Public Health, Chung Shan Medical University, Taichung, Taiwan	Feb. 2011-Jan. 2015
Assistant Professor	Department of Public Health, Chung Shan Medical University, Taichung, Taiwan	Feb. 2008-Jan. 2011
Postdoc	Department of Bioenvironmental Systems Engineering, National Taiwan University, Taipei, Taiwan	Aug. 2007-Jan. 2008

4. Expertise Keywords

Environmental Health	Infectious Disease Epidemiology
Human Health Risk Assessment	Dynamic Modeling

5. Refereed Paper (2004-2017)

1. Dih-Ling Luh, Cheng-Chieh Liu, Yun-Ru Luo, **Szu-Chieh Chen***. 2017. Economic cost and burden of dengue during epidemics and non-epidemics years in Taiwan. *Journal of Infection and Public Health* S1876-0341(17): 30195-8. 【SCI】doi: 10.1016/j.jiph.2017.07.021
2. Yi-Hsien Cheng, Shu-Han You, Yi-Jun Lin, **Szu-Chieh Chen***, Wei-Yu Chen, Wei-Chun Chou, Nan-Hung Hsieh, Chung-Min Liao*. 2017. Mathematical modeling of postcoinfection with influenza A virus and *Streptococcus pneumoniae*, with implications for pneumonia and COPD-risk assessment. *International Journal of COPD* 12, 1973-1988. 【SCI】doi: 10.2147/COPD.S138295
3. Ya-Fang Tsai, Shih-Wang Wu*, **Szu-Chieh Chen**. 2017. Assessing the risk of turnover intention among hospital workers. *International Journal of Management, Economics and Social Sciences*. 6(S1): 244-258.
4. Nan-Hung Hsieh, Shun-Hui Chung, **Szu-Chieh Chen**, Wei-Yu Chen, Yi-Hsien Cheng, Yi-Jun Lin, Shu-Han You, Chung-Min Liao*. 2017. Anemia risk in relation to lead exposure in lead-related manufacturing. *BMC Public Health* 17, 389.【SCI】doi: 10.1186/s12889-017-4315-7
5. Yi-Jun Lin, Min-Pei Ling*, **Szu-Chieh Chen,** Wei-Yu Chen, Nan-Hung Hsieh, Yi-Hsien Cheng, Shu-Han You, Wei-Chun Chou, Chung-Min Liao*. 2017. Mixture risk assessment due to ingestion of arsenic, copper, and zinc from milkfish farmed in contaminated coastal area. *Environmental Science and Pollution Research* 24(17): 14616-14626.【SCI】doi: 10.1007/s11356-017-8982-9
6. Hao-Jan Yang, **Szu-Chieh Chen,** Chiung-Wen Hu, Yi-Chen Chiang, Ching-Tsan Tsai, Pin-Yu Lin, Dian-Jheng Lai, Chung-Yih Kuo*. 2017. Estimation of students' exposure to metal concentrations during river-dust episodes for the years 1994-2012. *Environmental Science and Pollution Research* 24(6): 5679-5689.【SCI】doi:10.1007/s11356-016-8316-3
7. Yi-Chen Chiang, Hao-Jan Yang, **Szu-Chieh Chen**, Chiung-Wen Hu, Ching-Tsan Tsai, Dian-Jheng Lai, Chung-Yih Kuo*. 2016. Inhalation exposure of children to indoor PM_{10} and metals during river-dust episodes. *Air Quality, Atmosphere and Health*: 10(3): 381-388.【SCI】doi:10.1007/s11869-016-0426-z
8. Chia-Chi Lung[#], **Szu-Chieh Chen[#],** Chia-Hsin Yang, Yu-Chieh Chen, Shih-Yu Chang*, Wen-Chang Tseng, Su-Ching Liu. 2016. Using atmospheric visibility to assess the effects of air pollution on hospital admissions for respiratory diseases. *Aerosol and Air Quality Research* 16: 2237-2244.【SCI】
9. Dih-Ling Luh, Zhi-Shin You, **Szu-Chieh Chen***. 2016. Comparison of the social contact patterns among school-age children in specific seasons, locations, and times. *Epidemics* 14: 36-44.【SCI】
10. Wei-Yu Chen, Yi-Pei Shen, **Szu-Chieh Chen***. 2016. Assessing bisphenol A (BPA) exposure risk from long-term intakes of dietary in Taiwan. *Science of the*

total Environment 543: 140-146.【SCI】

11. Wei-Yu Chen*,Yun-Ru Ju, Chia-Jung Lin, Jeng-Wei Tsai, **Szu-Cheih Chen**, Chung-Min Liao. 2015. Environmental stochasticity promotes copper bioaccumulation and bioenergetic response in tilapia. *Stochastic Environmental Research and Risk Assessment* 29: 1545-1555.【SCI】
12. **Szu-Chieh Chen**, Nan-Hung Hsieh, Shu-Han You, Chien-Hua Wang, Chung-Min Liao*. 2015. Behavior response among educated young adults towards influenza A(H1N1) pdm09. *Epidemiology and Infection* 143(9): 1846-1857.【SCI】
13. **Szu-Chieh Chen***, Zhi-Shin You. 2015. Social contact patterns of school-age children in Taiwan: comparison of the term time and holiday periods. *Epidemiology and Infection* 143(6): 1139-1147.【SCI】
14. Chung-Min Liao*, Tang-Luen Huang, Yi-Hsien Cheng, Wei-Yu Chen, Nan-Hung Hsieh, **Szu-Chieh Chen**, Chia-Pin Chio. 2015. Assessing dengue infection risk in the southern region of Taiwan: implications for control. *Epidemiology and Infection* 143(5): 1059-1072.【SCI】
15. Min-Pei Ling, Chia-Hua Wu, **Szu-Chieh Chen**, Chia-Pin Chio, Yi-Hsien Cheng, Chung-Min Liao*. 2014. Probabilistic framework for assessing the arsenic exposure risk from cooked fish consumption. *Environmental Geochemistry and Health* 36(6): 1115-1128.【SCI】
16. **Szu-Chieh Chen***, Zhi-Shin You, I-Yun Chang. 2014. Probabilistic risk assessment of consumer exposure to particle-bound PAHs at a Taiwanese night market. *International Journal of Environmental Research* 8(3): 643-652.【SCI】
17. Shu-Han You, **Szu-Chieh Chen***, Chien-Hua Wang, Chung-Min Liao. 2013. Linking contact behavior and droplet patterns to dynamically model indoor respiratory infections among schoolchildren. *Journal of Epidemiology* 23(4):251-261.【SCI】
18. **Szu-Chieh Chen***, Chung-Min Liao. 2013. Cost-effectiveness of influenza control measure: A dynamic transmission model-based analysis. *Epidemiology and Infection* 141(12): 2581-2594.【SCI】
19. **Szu-Chieh Chen**, Shu-Han You, Ching-Yi Liu, Chia-Pin Chio, Chung-Min Liao*. 2012. Using experimental human influenza infections to validate a viral dynamic model and the implications for prediction. *Epidemiology and Infection* 140(9): 1557-1568.【SCI】
20. Chung-Min Liao*, Yi-Hsien Cheng, Yi-Jun Lin, Nan-Hung Hsieh, Tang-Luen Huang, Chia-Pin Chio, **Szu-Chieh Chen**, Min-Pei Ling. 2012. A probabilistic transmission and population dynamic model to assess tuberculosis infection risk. *Risk Analysis* 32(8): 1420-1432.【SCI】
21. **Szu-Chieh Chen***, Meng-Huan Hsieh. 2012. Modeling the transmission dynamics of dengue fever: implications for temperature effects. *Science of the Total Environment* 431: 385-391.【SCI】

22. **Szu-Chieh Chen**, Shu-Han You, Min-Pei Ling, Chia-Pin Chio, Chung-Min Liao*. 2012. Use of seasonal influenza virus titer and respiratory symptom score to estimate effective human contact rates. *Journal of Epidemiology* 22(4): 353-363.【SCI】
23. Chia-Pin Chio, Yi-Hsien Cheng, Min-Pei Ling, **Szu-Chieh Chen**, Chung-Min Liao*. 2012. Quantitative estimation of excess mortality for driver and passenger exposed to particulate matters in long-distance buses. *Atmospheric Environment* 51: 260-267.【SCI】
24. Chung-Min Liao*, Nan-Hung Hsieh, Tang-Luen Huang, Yi-Hsien Cheng, Yi-Jun Lin, Chia-Pin Chio, **Szu-Chieh Chen**, Min-Pei Ling. 2012. Assessing trends and predictors of tuberculosis in Taiwan. *BMC Public Health* 12: 29.【SCI】
25. Chung-Min Liao*, Chia-Pin Chio, Yi-Hsien Cheng, Nan-Hung Hsieh, Wei-Yu Chen, **Szu-Chieh Chen**. 2011. Quantitative links between arsenic exposure and influenza A (H1N1) infection-associated lung function exacerbation risk. *Risk Analysis* 31(8): 1281-1294.【SCI】
26. **Szu-Chieh Chen**, Chung-Min Liao*, Sih-Syuan Li, Shu-Han You. 2011. A probabilistic transmission model to assess infection risk from *Mycobacterium Tuberculosis* in commercial passenger trains. *Risk Analysis* 31(6): 930-939.【SCI】
27. Chung-Min Liao*, Chia-Pin Chio, Wei-Yu Chen, Yun-Ru Ju, Wen-Hsuan Li, Yi-Hsien Cheng, Vivian Hsiu-Chuan H. Liao, **Szu-Chieh Chen**, Min-Pei Ling. 2011. Lung cancer risk in relation to traffic-related nano/ultrafine particle-bound polycyclic aromatic hydrocarbons exposure: A probabilistic assessment. *Journal of Hazardous Materials* 190(1-3): 150-158.【SCI】
28. **Szu-Chieh Chen**, Chung-Min Liao*, Chia-Pin Chio, Hsiao-Han Chou, Shu-Han You, Yi-Hsien Cheng. 2010. Lagged temperature effect with mosquito transmission potential explain dengue variability in southern Taiwan: Insights from a statistical analysis. *Science of the Total Environment* 408(19): 4069-4075.【SCI】
29. Chung-Min Liao*, Nan-Hung Hsieh, Chia-Pin Chio, **Szu-Chieh Chen**. 2010. Assessing the exacerbations risk of influenza-associated chronic occupational asthma. *Risk Analysis* 30(7): 1062-1075.【SCI】
30. Chung-Min Liao*, Shu-Ching Yang, Chia-Pin Chio, **Szu-Chieh Chen**. 2010. Understanding influenza virus-specific epidemiological properties by analysis of experimental human infections. *Epidemiology and Infection* 138(6): 825-835.【SCI】
31. **Szu-Chieh Chen**, Chung-Min Liao*. 2010. Probabilistic indoor transmission modeling for influenza (sub)type viruses. *Journal of Infection* 60(1): 26-35.【SCI】

32. **Szu-Chieh Chen**, Chia-Pin Chio, Li-John Jou, Chung-Min Liao*. 2009. Viral kinetics and exhaled droplet size affect indoor transmission dynamics of influenza infection. *Indoor Air* 19(5): 401-413.【SCI】
33. Chung-Min Liao*, Szu-Yuan Chang, **Szu-Chieh Chen**, Chia-Pin Chio. 2009. Influenza-associated morbidity in subtropical Taiwan. *International Journal of Infectious Diseases* 13(5): 589-599.【SCI】
34. Chung-Min Liao*, Huan-Hsiang Shen, Chi-Ling Chen, Ling-I Hsu, Tzu-Ling Lin, **Szu-Chieh Chen**, Chien-Jen Chen. 2009. Risk assessment of arsenic-induced internal cancer at long-term low dose exposure. *Journal of Hazardous Materials* 165(1-3): 652-663.【SCI】
35. Chung-Min Liao*, Tzu-Ling Lin, **Szu-Chieh Chen**. 2008. A Weibull-PBPK model for assessing risk of arsenic-related children skin lesions. *Science of the Total Environment* 392(2-3): 203-217.【SCI】
36. **Szu-Chieh Chen**, Chung-Min Liao*. 2008. Modeling control measures to reduce the impact of pandemic influenza among schoolchildren. *Epidemiology and Infection* 136(8): 1035-1045.【SCI】
37. Chung-Min Liao*, Huan-Hsiang Shen, Tzu-Ling Lina, **Szu-Chieh Chen**, Chi-Ling Chen, Ling-I Hsu, Chien-Jen Chen. 2008. Arsenic cancer risks posed to human health from tilapia consumption in Taiwan. *Ecotoxicology and Environmental Safety* 70: 27-37.【SCI】
38. Chung-Min Liao*, **Szu-Chieh Chen**, Chao-Fang Chang. 2008. Modeling respiratory infection control measure effects. *Epidemiology and Infection* 136(3): 299-308.【SCI】
39. Chung-Min Liao*, Ching-Hung Yeh, **Szu-Chieh Chen**. 2008. Predation affects the susceptibility of hard clam *Meretrix lusoria* to Hg-stressed birnavirus. *Ecological Modelling* 210(3): 253-262.【SCI】
40. Chia-Pin Chio, **Szu-Chieh Chen**, Kuo-Chih Chiang, Chung-Min Liao*. 2007. Oxidative stress risk analysis for exposure to diesel exhaust particle-induced reactive oxygen species. *Science of the Total Environment* 387(1-3): 113-127.【SCI】
41. **Szu-Chieh Chen**, Chao-Fang Chang, Li-John Jou, Chung-Min Liao*. 2007. Modeling vaccination programmes against measles in Taiwan. *Epidemiology and Infection* 135(5): 775-786.【SCI】
42. **Szu-Chieh Chen**, Chung-Min Liao*. 2006. Health risk assessment on human exposed to environmental PAHs pollution sources. *Science of the Total Environment* 366(1): 112-123.【SCI】
43. Chung-Min Liao*, **Szu-Chieh Chen**, Jein-Wen Chen, Huang-Min Liang. 2006. Contributions of Chinese-style cooking and incense burning to personal exposure and residential PM concentrations in Taiwan region. *Science of the Total Environment* 358(1-3): 72-84.【SCI】
44. Chung-Min Liao*, Chao-Fang Chang, Ching-Hung Yeh, **Szu-Chieh Chen**, Kuo-Chin Chiang, Chia-Pin Chio, Berry Yun-Hua Chou, Li-John Jou,

Guang-Wen Lien, Chieh-Ming Lin, Huan-Hsiang Shen, Guan-De Wu. 2006. Metal stresses affect the population dynamics of disease transmission in aquaculture species. *Aquaculture* 257(1-4): 321-332.【SCI】

45. **Szu-Chieh Chen**, Chao-Fang Chang, Chung-Min Liao*. 2006. Predictive models of control strategies involved in containing indoor airborne infections. *Indoor Air* 16(6): 469-481.【SCI】
46. Chung-Min Liao*, **Szu-Chieh Chen**. 2005. A Probabilistic modeling approach to assess human inhalation exposure risks to airborne aflatoxin B1 (AFB1). *Atmospheric Environment* 39(35): 6481-6490.【SCI】
47. Chung-Min Liao*, Wen-Chang Luo, **Szu-Chieh Chen**, Jein-Wen Chen, Huang-Min Liang. 2004. Temporal/seasonal variations of size-dependent airborne fungi indoor-outdoor relationships for a wind-induced naturally ventilated airspace. *Atmospheric Environment* 38(26): 4415-4419.【SCI】
48. Jein-Wen Chen, Chung-Min Liao*, **Szu-Chieh Chen**. 2004. Compartmental human respiratory tract modeling of airborne dust exposure from feeding in swine buildings. *Journal of the Air and Waste Management Association* 54(3): 331-341.【SCI】
49. A. E. Kalingan, Chung-Min Liao*, Jein-Wen Chen, **Szu-Chieh Chen**. 2004. Microbial degradation of livestock-generated ammonia by using biofilters at typical ambient temperatures. *Journal of Environmental Science and Health Part B* 39(1): 185-198.【SCI】

6. Conference Paper (2007-2017)

1. Yi-Ying Li, Pei-Hsuan Lu, Yun-Ru Luo, Dih-Ling Luh, **Szu-Chieh Chen***. 2017. Assessing BPA intake from canned food consumption based on web survey. SETAC Europe 27th Annual Meeting, Brussels, Belgium, 7-11 May 2017.
2. Yun-Ru Luo, Ying-Jen Chen, Pei-Hsuan Lu, Ting-Tzu Hsu, Yi-Ying Li, **Szu-Chieh Chen***. 2016. Characteristic of particulate-PAHs emission from home-cooking process. Conference of International Society for Environmental Epidemiology and International Society of Exposure Science- Asia Chapter. Japan. Sapporo. June 26-29, 2016.
3. Yan-Yi Tsai, Pei-Hsuan Lu, Cheng-Chieh Liu, Ting-Tzu Hsu, Yi-Ying Li, Fu-Yu Lo, **Szu-Chieh Chen***. Exposure estimate and risk assessment of particle-PAHs in parking area. Conference of International Society for Environmental Epidemiology and International Society of Exposure Science- Asia Chapter. Japan. Sapporo. June 26-29, 2016.
4. Dih-Ling Luh, Zhi-Shin You**, Szu-Chieh Chen***. 2016. Social contact patterns among school-age children in Taiwan. Conference of Public Health and Medical Technology. Singapore. March 3-4, 2016.
5. Shih-Yu Chang, **Szu-Chieh Chen**, Chia-Hsin Yang, Yu-Chieh Chen, Chung-Hao Cheng, Wen-Chang Tseng, Yu-Jen Tsai, Yu-Pei Wu, Guo-Chen Fang. Assessing the health risks of air pollutants on the respiratory system diseases depending on

a direct and convenient indicator of atmospheric visibility. 9th Asian Aerosol Conference, Japen. June 24-June 25, 2015.

6. **Szu-Chieh Chen***, I-Yun Chang, Yen-Hsin Chen, Chia-Wei Lin, Ka-I Lei. Consumer's exposure to particle-bound PAHs at night markets in Taiwan. SETAC Europe Annual Meeting, Berlin, Germany, 20-24 May 2012.
7. **Szu-Chieh Chen***. To contract a pyrene-based physiologically based pharmacokinetic (PBPK) model for predicting urinary 1- hydroxypyrene (1-OHP) levels in human. SETAC Europe Annual Meeting. Milan, Italy, 15-19 May 2011.
8. Yi-Hsien Cheng, Chung-Min Liao*, Chia-Pin Chio, Nan-Hung Hsieh, Wei-Yu Chen, **Szu-Chieh Chen**. Assessing arsenic exposure and influenza A (H1N1) infection-associated lung function exacerbations risks. SETAC Europe Annual Meeting. Milan, Italy, 15-19 May 2011.
9. **Szu-Chieh Chen**, Hsiao-Han Chou, Chung-Min Liao. Assessing the role of climate factors impact in dengue incidence in subtropical Taiwan. EPIDEMICS, Second International Conference on Infectious Disease Dynamics, December 2-4, 2009. Greece, Athens
10. **Szu-Chieh Chen**, Chung-Min Liao. Evaluation of influenza viral kinetics and exhaled droplet size on indoor transmission dynamics. EPIDEMICS, First International Conference on Infectious Disease Dynamics, December 1-3, 2008. USA
11. Chung-Min Liao, Huan-Hsiang Shen, Tzu-Ling Lin, **Szu-Chieh Chen**, Chi-Ling Chen, Ling-I Hsu, Chien-Jen Chen. A biokinetic and Weibull-based epidemiological framework for assessing safe arsenic intake and health effects. SETAC Europe 17th Annual Meeting, Portugal, Porto, May 20-24, 2007.