

# Curriculum Vitae Chang-Chuan Chan, Ph.D.

## **Position**

*Dean,*  
College of Public Health, National Taiwan University



## **Education Background**

*Doctor of Science* (1990)

Air Pollution Control  
Harvard School of Public Health

*Master of Science* (1987)

Industrial Hygiene and Air Pollution Control  
Harvard School of Public Health

*Bachelor of Public Health* (1982)

Chemistry and Biology  
National Taiwan University, College of Medicine

## **Professional Experience**

- ◆ *Councilor*, International Society for Environmental Epidemiology (ISEE), 2015-2017
- ◆ *Chair*, International Society for Environmental Epidemiology – Asia Chapter (ISEE-AC), since 2016
- ◆ *Steering Committee Member*, Association of Pacific Rim Universities (APRU) Global Health Program, 2014-2016
- ◆ *Chairman*, Taiwan Chapter of Society for Risk Analysis, since 2009
- ◆ *President*, Society for Risk Analysis in Taiwan, since 2008
- ◆ *Councilor*, International Society of Exposure Analysis (ISEA), 2008-2011
- ◆ *Dean*, College of Public Health, National Taiwan University, since 2017
- ◆ *Associate Dean*, College of Public Health, National Taiwan University, 2011-2017
- ◆ *Director*, Global Health Center in Taiwan, College of Public Health, National Taiwan University, since 2011
- ◆ *Director*, International Health Center in Taiwan, College of Public Health, National Taiwan University, 2007-2011
- ◆ *Director*, Institute of Occupational Medicine and Industrial Hygiene, College of Public Health, National Taiwan University, 1999-2005
- ◆ *Takemi Fellow in International Health*, Harvard University, 1997-1998

- ◆ *Fulbright Visiting Scholar*, 1997-1998
- ◆ *Professor*, Institute of Occupational Medicine and Industrial Hygiene, College of Public Health, National Taiwan University, since 1996

### **Publications**

1. Wang CW, Liao KW, Chan CC, Yu ML, Chuang HY, Chiang HC, Huang PC: *Association between urinary thiodiglycolic acid level and hepatic function or fibrosis index in school-aged children living near a petrochemical complex.* Environ Pollut. 2019 Jan;244:648-656. doi: 10.1016/j.envpol.2018.10.012. Epub 2018 Oct 6.
2. Ho WY, Tseng KH, Liou ML, Chan CC, Wang CH: *Application of Positive Matrix Factorization in the Identification of the Sources of PM2.5 in Taipei City.* Int J Environ Res Public Health. 2018 Jun 21;15(7). pii: E1305. doi: 10.3390/ijerph15071305.
3. Chuang HC, Shie RH, Chio CP, Yuan TH, Lee JH, Chan CC\*: *Cluster analysis of fine particulate matter (PM2.5) emissions and its bioreactivity in the vicinity of a petrochemical complex.* Environ Pollut. 2018 May;236:591-597. doi: 10.1016/j.envpol.2018.01.067.
4. Chen CF, Chio CP, Yuan TH, Yeh YP, Chan CC\*: *Increased cancer incidence of Changhua residents living in Taisi Village north to the No. 6 Naphtha Cracking Complex.* J Formos Med Assoc. 2018 Dec;117(12):1101-1107. doi: 10.1016/j.jfma.2017.12.013. Epub 2018 Feb 1.
5. Chen SY, Chu DC, Lee JH, Yang YR, Chan CC\*: *Traffic-related air pollution associated with chronic kidney disease among elderly residents in Taipei City.* Environ Pollut. 2018 Mar;234:838-845. doi: 10.1016/j.envpol.2017.11.084. Epub 2017 Dec 21.
6. Yuan TH, Shen YC, Shie RH, Hung SH, Chen CF, Chan CC\*: *Increased cancers among residents living in the neighborhood of a petrochemical complex: A 12-year retrospective cohort study.* Int J Hyg Environ Health. 2018 Mar;221(2):308-314. doi: 10.1016/j.ijheh.2017.12.004. Epub 2017 Dec 14.
7. Pan SC, Huang CC, Lin SJ, Chen BY, Chan CC, Leon Guo YL: *Gestational diabetes mellitus was related to ambient air pollutant nitric oxide during early gestation.* Environ Res. 2017 Oct;158:318-323. doi: 10.1016/j.envres.2017.06.005. Epub 2017 Jun 30.
8. Wu CF, Woodward A, Li YR, Kan H, Balasubramanian R, Latif MT, Sahani M, Cheng TJ, Chio CP, Taneepanichskul N, Kim H, Chan CC, Yi SM, Withers M,

Samet J: *Regulation of fine particulate matter (PM<sub>2.5</sub>) in the Pacific Rim: perspectives from the APRU Global Health Program*. Air Qual Atmos Health. 2017 Aug; 10:1039. doi:10.1007/s11869-017-0492-x

9. Lo WC, Ku CC, Chiou ST, Chan CC, Chen CL, Lai MS, Lin HH: *Adult mortality of diseases and injuries attributable to selected metabolic, lifestyle, environmental, and infectious risk factors in Taiwan: A comparative risk assessment*. Popul Health Metr. 2017 May 3;15(1):17. doi: 10.1186/s12963-017-0134-4.
10. Chen CS, Yuan TH, Shie RH, Wu KY, Chan CC\*: *Linking sources to early effects by profiling urine metabolome of residents living near oil refineries and coal-fired power plants*. Environ Int. 2017 May;102:87-96. doi: 10.1016/j.envint.2017.02.003. Epub 2017 Feb 24.
11. Chen SY, Chan CC, Su TC: *Particulate and gaseous pollutants on inflammation, thrombosis, and autonomic imbalance in subjects at risk for cardiovascular disease*. Environ Pollut. 2017 Apr;223:403-408. doi: 10.1016/j.envpol.2017.01.037. Epub 2017 Jan 31.
12. Chiang TY, Yuan TH, Shie RH, Chen CF, Chan CC\*: *Increased incidence of allergic rhinitis, bronchitis and asthma, in children living near a petrochemical complex with SO<sub>2</sub> pollution*. Environ Int. 2016 Nov;96:1-7. doi: 10.1016/j.envint.2016.08.009. Epub 2016 Aug 30.
13. Yang YR, Chen YM, Chen SY, Chan CC\*: *Associations between Long-Term Particulate Matter Exposure and Adult Renal Function in the Taipei Metropolis*. Environ Health Perspect. 2017 Apr;125(4):602-607. doi: 10.1289/EHP302. Epub 2016 Oct 7.
14. Tian TF, Wang SY, Kuo TC, Tan CE, Chen GY, Kuo CH, Chen CS, Chan CC, Lin OA, Tseng YJ: *Web Server for Peak Detection, Baseline Correction, and Alignment in Two-Dimensional Gas Chromatography Mass Spectrometry-Based Metabolomics Data*. Anal Chem. 2016 Nov;88(21):10395-10403. Epub 2016 Oct 13.
15. Lee PH, Fu H, Lai TC, Chiang CY, Chan CC, Lin HH: *Glycemic Control and the Risk of Tuberculosis: A Cohort Study*. PLoS Med. 2016 Aug 9;13(8):e1002072. doi: 10.1371/journal.pmed.1002072.
16. Withers M, Press D, Wipfli H, McCool J, Chan CC, Jimba M, Tremewan C, Samet J: *Training the next generation of global health experts: Experiences and recommendations from Pacific Rim universities*. Global Health. 2016 Jun 23;12(1):34. doi: 10.1186/s12992-016-0162-z.

17. Lin RT, Christiani DC, Kawachi I, Chan TC, Chiang PH, Chan CC: *Increased Risk of Respiratory Mortality Associated with the High-Tech Manufacturing Industry: A 26-Year Study*. Int J Environ Res Public Health. 2016 Jun 3;13(6). pii: E557. doi: 10.3390/ijerph13060557.
18. Ho CC, Chan CC, Chio CP, Lai YC, Chang-Chien GP, Chow JC, Watson JG, Chen LA, Chen PC, Wu CF: *Source apportionment of mass concentration and inhalation risk with long-term ambient PCDD/Fs measurements in an urban area*. J Hazard Mater. 2016 Nov 5;317:180-187. doi: 10.1016/j.jhazmat.2016.05.059. Epub 2016 May 20.
19. Chen SL, Lee CS, Yen AM, Chen HH, Chan CC, Chiu SY, Fann JC, Chang JC: *A 10-year follow-up study on suicidal mortality after 1999 Taiwan earthquake*. J Psychiatr Res. 2016 Aug;79:42-49. doi: 10.1016/j.jpsychires.2016.04.007. Epub 2016 Apr 25.
20. Yuan TH, Chung MK, Lin CY, Chen ST, Wu KY, Chan CC\*: *Metabolic profiling of residents in the vicinity of a petrochemical complex*. Sci Total Environ. 2016 Apr 1;548-549:260-269. doi: 10.1016/j.scitotenv.2016.01.033. Epub 2016 Jan 21.
21. Lo WC, Shie RH, Chan CC, Lin HH: *Burden of disease attributable to ambient fine particulate matter exposure in Taiwan*. J Formos Med Assoc. 2017 Jan;116(1):32-40. doi: 10.1016/j.jfma.2015.12.007. Epub 2016 Feb 10.
22. Huang PC, Liu LH, Shie RH, Tsai CH, Liang WY, Wang CW, Tsai CH, Chiang HC, Chan CC\*: *Assessment of urinary thiodiglycolic acid exposure in school-aged children in the vicinity of a petrochemical complex in central Taiwan*. Environ Res. 2016 Oct;150:566-572. doi: 10.1016/j.envres.2015.11.027. Epub 2015 Dec 4.
23. Lai TC, Chiang CY, Wu CF, Yang SL, Liu DP, Chan CC, Lin HH: *Ambient air pollution and risk of tuberculosis: A cohort study*. Occup Environ Med. 2016 Jan;73(1):56-61. doi: 10.1136/oemed-2015-102995. Epub 2015 Oct 29.
24. Lee JH, Wu CF, Hoek G, de Hoogh K, Beelen R, Brunekreef B, Chan CC\*: *LUR models for particulate matters in the Taipei metropolis with high densities of roads and strong activities of industry, commerce and construction*. Sci Total Environ. 2015 May 1;514:178-84. doi: 10.1016/j.scitotenv.2015.01.091. Epub 2015 Feb 5.
25. Ho CC, Chan CC, Cho CW, Lin HI, Lee JH, Wu CF: *Land use regression modeling with vertical distribution measurements for fine particulate matter and*

- elements in an urban area*. *Atmospheric Environ.* 2015 Jan;104.  
doi:10.1016/j.atmosenv.2015.01.024
26. Chen SY, Wu CF, Lee JH, Hoffmann B, Peters A, Brunekreef B, Chu DC, Chan CC\*: *Associations between Long-Term Air Pollutant Exposures and Blood Pressure in Elderly Residents of Taipei City: A Cross-Sectional Study*. *Environ Health Perspect.* 2015 Aug;123(8):779-84. doi: 10.1289/ehp.1408771. Epub 2015 Mar 20.
  27. Su TC, Hwang JJ, Shen YC, Chan CC\*: *Carotid Intima–Media Thickness and Long-Term Exposure to Traffic-Related Air Pollution in Middle-Aged Residents of Taiwan: A Cross-Sectional Study*. *Environ Health Perspect.* 2015 Aug;123(8):773-8. doi: 10.1289/ehp.1408553. Epub 2015 Mar 20.
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  30. Chen YT, Huang YK, Luvsan ME, Gombojav E, Ochir C, Bulgan J, Chan CC\*: *The influence of season and living environment on children's urinary 1-hydroxypyrene levels in Ulaanbaatar, Mongolia*. *Environ Res.* 2015 Feb;137:170-5. doi: 10.1016/j.envres.2014.11.022. Epub 2014 Dec 24.
  31. Chen CC, Chan CC, Chen BY, Cheng TJ, Guo YL: *Effects of particulate air pollution and ozone on lung function in non-asthmatic children*. *Environ Res.* 2015 Feb;137:40-8. doi: 10.1016/j.envres.2014.11.021. Epub 2014 Dec 6.
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  33. Wu CF, Lin HI, Ho CC, Yang TH, Chen CC, Chan CC: *Modeling horizontal and vertical variation in intraurban exposure to PM2.5 concentrations and compositions*. *Environ Res.* 2014 Aug;133:96-102. doi: 10.1016/j.envres.2014.04.038. Epub 2014 Jun 4.

34. Chen SY, Chan CC, Lin YL, Hwang JS, Su TC: *Fine particulate matter results in hemodynamic changes in subjects with blunted nocturnal blood pressure dipping*. Environ Res. 2014 May;131:1-5. doi: 10.1016/j.envres.2014.01.009. Epub 2014 Mar 4.
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37. Chen YM, Lin WY, Chan CC\*: *The impact of petrochemical industrialisation on life expectancy and per capita income in Taiwan: An 11-year longitudinal study*. BMC Public Health. 2014 Mar 12;14:247. doi: 10.1186/1471-2458-14-247.
38. Chen SY, Lin YL, Chang WT, Lee CT, Chan CC\*: *Increasing emergency room visits for stroke by elevated levels of fine particulate constituents*. Sci Total Environ. 2014 Mar 1;473-474:446-50. doi: 10.1016/j.scitotenv.2013.12.035. Epub 2013 Dec 31.
39. Chio CP, Yuan TH, Shie RH, Chan CC\*: *Assessing vanadium and arsenic exposure of people living near a petrochemical complex with two-stage dispersion models*. J Hazard Mater. 2014 Apr 30;271:98-107. doi: 10.1016/j.jhazmat.2014.02.008. Epub 2014 Feb 15.
40. Lee JH, Wu CF, Hoek G, de Hoogh K, Beelen R, Brunekreef B, Chan CC\*: *Land use regression models for estimating individual NOx and NO2 exposures in a metropolis with a high density of traffic roads and population*. Sci Total Environ. 2014 Feb 15;472:1163-71. doi: 10.1016/j.scitotenv.2013.11.064. Epub 2013 Dec 28.
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42. Shie RH, Chan CC\*: *Tracking hazardous air pollutants from a refinery fire by applying on-line and off-line air monitoring and back trajectory modeling*. J Hazard Mater. 2013 Oct 15;261:72-82. doi: 10.1016/j.jhazmat.2013.07.017. Epub 2013 Jul 19.

43. Huang YK, Luvsan ME, Gombojav E, Ochir C, Bulgan J, Chan CC\*: *Land use patterns and SO<sub>2</sub> and NO<sub>2</sub> pollution in Ulaanbaatar, Mongolia*. Environ Res. 2013 Jul;124:1-6. doi: 10.1016/j.envres.2013.02.006. Epub 2013 Mar 21.
44. Shie RH, Yuan TH, Chan CC\*: *Using pollution roses to assess sulfur dioxide impacts in a township downwind of a petrochemical complex*. J Air Waste Manag Assoc. 2013 Jun;63(6):702-11. doi:10.1080/10962247.2013.780001
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51. Chen BY, Chan CC, Han YY, Wu HP, Guo YL: *The risk factors and quality of life in children with allergic rhinitis in relation to seasonal attack patterns*. Paediatr Perinat Epidemiol. 2012 Mar;26(2):146-55. doi: 10.1111/j.1365-3016.2011.01203.x. Epub 2011 Jun 14.

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61. Tsai FJ, Chan CC. Gender differences in occupational stress and health among legal professionals in Taiwan. Taiwan Journal of Public Health 2011;30(5).



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