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**Education**

- 1994-2001 M.D., National Taiwan University, Taiwan
- 2002-2003 M.P.H., International Health, Harvard University, U.S.A.
- 2005-2009 Sc.D., Epidemiology, Harvard University, U.S.A.

**Research and Professional Positions Held in Chronological Sequence**

- 2001-2005 Resident, Mennonite Christian Hospital, Taiwan
- 2009-2009 Postdoctoral Fellow, Brigham and Women's Hospital, U.S.A.
- 2010 Attending Physician, Mennonite Christian Hospital, Taiwan
- 2010~2014 Assistant Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University, Taiwan
- 2014~2018 Associate Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University, Taiwan
- 2018~ Professor, Institute of Epidemiology and Preventive Medicine, National Taiwan University, Taiwan
- 2019~ Director, Global Health Program, College of Public Health, National Taiwan University, Taiwan
- 2021~ Associate Dean, College of Public Health, National Taiwan University, Taiwan

**Research Interests**

My research interest involves using epidemiological studies to assist control and prevention of tuberculosis. I have been studying risk factors of tuberculosis, including active smoking and passive smoking, indoor and ambient air pollution, alcohol use, and diabetes, using population-based cohort studies and meta-analysis. Building on evidence from these epidemiological studies and epidemic theory of infectious diseases, I am investigating population-level impact of changing risk factors on future tuberculosis epidemiology, the interaction between chronic disease epidemiology and tuberculosis epidemiology, and methodological issues when conducting such studies. I am also using epidemic models to assess the potential impact of tuberculosis interventions that are being considered by policy makers, including new diagnostics (e.g., LED microscopy, Gene Xpert MTB/RIF) in developing countries and tuberculosis control programs (active case finding and treatment of latent tuberculosis infection) in Taiwan. Our team is currently conducting a large population-based tuberculosis cohort study combining whole genome sequencing, routine public health information (including contact investigation), and geographic information system to understand the transmission of drug-susceptible and drug-resistance tuberculosis in Taiwan. We also involved in investigating the transmission dynamics of COVID-19

and evaluating the effectiveness of case-based and population-based interventions for COVID-19 in Taiwan. I am also interested in applying the framework of Comparative Risk Assessment and have extended it to a time-based approach when we evaluated the impact of respirable pollutants on major lung diseases in China.

### **Major Honors and Awards**

2010~	Technical consultant, International Union Against Tuberculosis and Lung Disease
2011	Outstanding overseas young scholar award, Foundation for the Advancement of Outstanding Scholarship
2014	2014 Ten Outstanding Young Persons of Taiwan
2016	Junior Research Investigators Award, Academia Sinica, Taiwan
2017	27th Chin-Hsin Medical Award, Chin-Hsin Foundation
2017	Young Scientists Prize, 12th TienTe Lee Biomedical Award
2018	Outstanding Research Award, Ministry of Science and Technology
2021	Outstanding Research Award, Ministry of Science and Technology