

Li-Lin Liang, Ph.D., MSc, B.B.A

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Supervisory Board, Taiwan Health Economics Association
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Education

Ph.D. London School of Economics and Political Science

- Major: Health Economics

MSc Imperial College London

- Major: Health Management

B.B.A National Taiwan University

- Major: International Business

Current Employment

Associate Professor

- National Yang Ming Chiao Tung University, Institute of Public Health

Deputy Director

- Health Innovation Center, National Yang Ming Chiao Tung University

Supervisory Board

- Taiwan Health Economics Association

Evaluation Committee

- Public Health & Social Medicine Division, Ministry of Science & Technology

Past Employment

Associate Professor

- National Sun Yet-San University, Department of Business Management

Deputy Secretary-General

- Taiwan Health Economics Association

Assistant Professor

- National Sun Yet-San University, Department of Business Management

Post-doctoral fellow

- National Yang-Ming University, Institute of Hospital and Health Care Administration

The World Bank

- Consultant

Research Fellow

- Peking University, China Centre for Health Economic Research

Assistant Professor

- Peking University, China Centre for Health Development Studies

Awards (recent 5 years)

- NYCU Significant Paper Award, 2023
- Annual Conference of National Evidence-based Healthcare, Bronze Award, 2023
- NYCU Faculty Recognition for Significant Academic Awards, 2022
- UK Alumni Award, The British Council, 2022
- Taiwan Evidence-Based Medicine Association (TEBMA) Best Paper Award, 2021
- Academic Merit Award, National Sun Yat-sen University, 2021
- FWCI Award, National Sun Yat-sen University, 2021
- Taiwan Research Highlight (GASE), Ministry of Science & Technology, 2020

Research Expertise

- Impact Evaluation; Health economics; Applied econometrics; Cross-country analysis

Research Interests

- COVID-19; Physical fitness; Provider payment systems; Integrated care; Health expenditures; Physician incentives; China Health Reform

Publication

1. Jui-fen Rachel Lu, **Li-Lin Liang***. The role of digital health under Taiwan's National Health Insurance system: progress and challenges. *Health Systems & Reform*. (forthcoming)
2. Chun-Ying Wu*, **Li-Lin Liang** (co-first with equal contribution), Hsiu J. Ho, Chen-Te Hsu, Hsiu-Tao Hsu, Chon-Kit Ao, Chen-Yi Wu, Yi-Hsian Lin, Yi-Fang Chuang, Yao-Chun Hsu, Yi-Ju Chen, Siew C. Ng*. Physical fitness and inflammatory bowel disease risk among children and adolescents in Taiwan. *JAMA Pediatrics*. 2023; 1;177(6):608-616.
3. **Li-Lin Liang***, Huong Mai Le, Chun-Ying Wu, Chien-Yuan Sher, Alistair McGuire*. Human mobility increased with vaccine coverage and attenuated the protection of COVID-19 vaccination: A longitudinal study of 107 countries. *Journal of Global Health*. 2023; 13: 06009.
4. Po-Chun Lee*, **Li-Lin Liang**, Min-Hsin Huang, Ching-Yuan Huang. A comparative study of positive and negative electronic word-of-mouth on the SERVQUAL scale during the COVID-19 epidemic. *BMC Health Services Research*. 2022; 22:1568.
5. Po-Chun Lee*, Ching-Yuan Huang, **Li-Lin Liang**, Min-Hsin Huang, Meng-Jun Hsu. The choice of Taiwanese college students to vaccinate against Severe Special Infectious Pneumonia COVID-19 based on the integrated theory of planning behavior. *Human Vaccines & Immunotherapeutics*. 2022; 18(7).
6. Vipin Saini, **Li-Lin Liang***, Yu-Chen Yang, Huong Mai Le, Chun-Ying Wu. The

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- association between dissemination and characteristics of pro-/anti-COVID-19 vaccine messages on Twitter: application of the Elaboration Likelihood Model. *JMIR Infodemiology* 2022; 2(1): e37077.
7. Polašek O, Wazny K, ..., **Li-Lin Liang**, ..., et al (including 67 co-authors). Research priorities to reduce the impact of COVID-19 in low- and middle-income countries. *Journal of Global Health* 2022; 12: 09003.
 8. Cheng We, Chen-Te Hsu*, **Li-Lin Liang**. A review of the effects of physical activity and fitness on common diseases and medical expenditure of children and adolescents. *Quarterly of Chinese Physical Education* 2022; 36(2): 93-100 [In Chinese].
 9. Teng-Li Lin, Yi-Hsuan Fan, Yi-Ling Chang, Hsiu J. Ho, **Li-Lin Liang**, Yi-Ju Chen*, Chun-Ying Wu*. Early-life antibiotic exposure associated with varicella occurrence and breakthrough infections: Evidence from nationwide pre-vaccination and post-vaccination cohorts. *Frontiers in Immunology* 2022;13.
 10. **Li-Lin Liang**, Hsu-Sung Kuo, Hsiu J. Ho, Chun-Ying Wu*. COVID-19 vaccinations are associated with reduced fatality rates: evidence from cross-county quasi-experiments. *Journal of Global Health* 2021; 11: 05019
 11. **Li-Lin Liang**, Chien-Tse Kao, Hsiu J. Ho, Chun-Ying Wu*. COVID-19 case doubling time associated with non-pharmaceutical interventions and vaccination: a global experience. *Journal of Global Health* 2021; 11: 05021
 12. **Li-Lin Liang***, A Dale Tussing, Nicole Huang, Shu-Ling Tsai. Incentives for physician teams: Effectiveness of performance feedback and payment distribution methods. *Health Policy* 2021; 125:1377-1384.
 13. **Li-Lin Liang**, Ching-Hung Tseng, Hsiu J. Ho, Chun-Ying Wu*. Covid-19 mortality is negatively associated with test number and government effectiveness. *Scientific Reports* 2020; 10: 12567.
 14. **Li-Lin Liang**, Nicole Huang, Yi-Jung Shen, Annie Yu-An Chen, and Yiing-Jenq Chou*. Do patients bypass primary care for common health problems under a free-access system? Experience of Taiwan." *BMC Health Services Research* 2020; 20, no. 1: 1050.
 15. **Li-Lin Liang***. Impact of integrated healthcare: Taiwan's Family Doctor Plan. *Health Policy and Planning* 2019; 34: ii56-ii66.
 16. **Li-Lin Liang***, A. D. Tussing. The cyclicity of government health expenditure and its effects on population health. *Health Policy* 2019; 123: 96-103.
 17. Chen-Mei Hsu*, **Li-Lin Liang**, Yun-Te Chang, Wang-Chuan Juang. Emergency department overcrowding: quality improvement in a Taiwan medical center. *Journal of the Formosan Medical Association* 2019; 118(1, Part 1): 186-193.
 18. **Li-Lin Liang***. Do DRG-based payments incentivize hospitals to adjust output mix? The own-price and cross-price effects. *Health Economics* 2015; 24(4): 454-469.
 19. **Li-Lin Liang***, Andrew Mirelman. Why do some countries spend more for health? An assessment of sociopolitical determinants and international aid for government health expenditures. *Social Science & Medicine* 2014; 114: 161-168.
 20. **Li-Lin Liang***, J. C. Langenbrunner. The Long March to Universal Health Coverage: Outside

Looking in. *Chinese Journal of Health Policy* 2013; 6 (2):1-3 [in Chinese].

21. Chen Gung*, **Li-Lin Liang**. Measuring health system efficiency: a cross-country comparison using non-parametric methods. *Chinese Journal of Health Policy* 2012; 5 (3): 61-66 [in Chinese].

Research Project

- **Li-Lin Liang** (PI). The Impact of Anti-contagion Policies and Behaviour on the COVID-19 Pandemic; Variation in Pandemic Outcomes and Social Vulnerability Index; the Health Effects of COVID-19. Ministry of Science and Technology (111-2314-B-110-001-MY3). 2022-2025
- **Li-Lin Liang** (co-PI). COVID-19 Nonpharmaceutical Interventions, Vaccination and Mobility: Cross-country analysis. Research Center for Epidemic Prevention, National Yang Ming Chiao Tung University; Ministry of Science and Technology (111-2321-B-A49-007). 2022-2025
- **Li-Lin Liang** (co-PI). Nudge-based Interventions, Decision-Analytic Modeling and Economic Evaluations: Prevention and Treatment of Hepatocellular Carcinoma. Ministry of Health and Welfare (MOE-SA-1100048299). 2022-2025
- **Li-Lin Liang** (co-PI). Student Physical Fitness, Healthcare Utilization and Health: Merging Physical Fitness and Health Insurance Data. Ministry of Education. 2021-2023
- **Li-Lin Liang** (PI). Strengthening Primary Care: Does Having a Family Doctor Improve Continuity of Care and Reduce Mortality? Ministry of Science and Technology (109-2410-H-110-016-MY2). 2020-2022
- **Li-Lin Liang** (PI). Integration, Incentives and Variation in Group Performance: Evidence from Taiwan Family Doctor Plan. Ministry of Science and Technology (108-2410-H-110-025-). 2019-2020
- **Li-Lin Liang** (PI). Is Pay-for-Performance or Family Doctor Plan More Effective? An Evaluation of Multiple Programs with Overlapping. Ministry of Science and Technology (107-2410-H-110-072). 2018-2019
- **Li-Lin Liang** (PI). Impact of Phasing in DRG-Based Payment on Patient Outcome and Resource Utilization: A Long-Term Evaluation. Ministry of Science and Technology (106-2410-H-110-076). 2017-2018
- **Li-Lin Liang** (PI). Group-based P4P and Health Care Integration: Impact of Family Doctor Plan in Taiwan and Its Determinants. Ministry of Science and Technology (105-2410-H-110-053). 2016-2017
- **Li-Lin Liang** (PI). Regional Variation in Health Care and Doctors' Practice Style: Evidence from Taiwan. Ministry of Science and Technology (104-2314-B-110-001-MY2). 2015-2016

Teaching

- **National Yang Ming Chiao Tung University**
 - Undergraduate: Economics; Dialog on Health, Economics and Policy
 - Postgraduate: Causal Inference and Impact Evaluation (English); Causal Inference and Longitudinal Modelling; Health Big Data Methodology (English); Applied Econometrics for Health Policy; Public Health Policy and Law Seminar; Graduate Seminar on International Health (English)
- **National Sun Yat-sen University**
 - Undergraduate: Introduction to Business; Economics II (macroeconomics)
 - Postgraduate: Health Economic Evaluation; Health Economics, Policy and Management; Advanced Health Economics; Advanced Statistics with Applications to Health Services Research; Hospital Operations Management
- **Peking University**
 - Health System and Policy (English); Health Financing and Policy (English)