

Echu Liu

CONTACT INFORMATION

Department of Health Management and Policy
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EDUCATION

- x PhD in Economics, University of Southern California, December 2006
 - x MA in Economics, University of Southern California, 2003
 - x MBA in Finance (with Beta Gamma Sigma Honor), California State University Los Angeles, June 2000
 - x MA in Economics, National Taiwan University, June 1995
 - x BA in Economics, National Taiwan University, June 1995
- WORK EXPERIENCE

Academic

- x Director, PhD in Public Health Studies, College for Public Health and Social Justice, Saint Louis University, 2024-present
- x Associate Professor (with tenure), Department of Health Management and Policy, Saint Louis University, August 2014-present
- x Associate Professor of Health Care Management (with tenure), School of Allied Health, Southern Illinois University Carbondale, 2012-August 2014
- x Assistant Professor of Health Care Management, School of Allied Health, Southern Illinois University Carbondale, August 2006-June 2012

6. Liu, E, Dean, C. A & Elder, K. (2023) The impact of COVID-19 on vulnerable populations *Frontiers in Public Health* 11, Article 1267723
<https://doi.org/10.3389/fpubh.2023.1267723>
7. Dean, C. A., Liu, E., Enard, K. R., Qian, Z., & Elder, K. (2023) Factors associated with food insecurity among the chronically ill population during the COVID pandemic in the United States. *Frontiers in Public Health*, Article 1142603.
<https://doi.org/10.3389/fpubh.2023.1142603> († denotes shared first authorship)
8. Cai, M <https://doi.org/10.3389/fpubh.2023.1142603>

13. Liu, E., & Chang, S. (2022). Self-esteem and weight status of young adults: Findings from a pilot study. *Journal of Education and Health Promotion*, 263. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9621350/pdf/JEHP-263.pdf>

14. Dean, C. A.,

20. Su, Y., Liu, W., Dong, G., Qian, Z., Gurrarn, N., Liu, E., Cummings/Vaughn, L. A., Howard, S. W., Vaughn, M. G., Jansson, D. R., Zhang, C., & Wang, Y. (2020). Investigation of simple, objective, and effective indicators for predicting acute paraquat poisoning outcomes. *Toxicology and Industrial Health*, 36(6), 417–426. <https://doi.org/10.1177/0748233720933522>
21. Dean, C. A., Wiltshire, Liu, E., Amamoo, M. A., Colato, E. G., & Elder, K. (2020). Confidence in understanding health insurance and challenges paying medical bills among men in the United States. *American Journal of Men's Health*, 14(4), Article 1557988320943359. <https://doi.org/10.1177/1557988320943359>
22. Cai, M., Liu, E., Zhang, R., Lin, X., Rigdon, S. E., Qian, Z., BeLue, R., & Chang, J.J (2020). Comparing the performance of Charlson and Elixhauser comorbidity indices to predict in-hospital mortality among a Chinese population. *Clinical Epidemiology* 12, 307–316. <https://doi.org/10.2147/CLEP.S241610>
23. Liu, R., Bloom, M. S., Wu, Q., He, Z., B. B.,

27. Cai, M., Liu, E., & Li, W. (2018). Rural versus urban patients: Benchmarking the outcomes of patients with acute myocardial infarction in Shanxi, China from 2013 to 2017. *International Journal of Environmental Research and Public Health*, 15(9), Article 1930. <https://doi.org/10.3390/ijerph15091930>
28. Li, W., Liu, E., & BeLue, R. (2018). Household water treatment and the nutritional status of primary-aged children in India: Findings from the India Human Development Survey. *Globalization and Health*, 14, 37. <https://doi.org/10.1186/s12992-018-0356-7>
29. Cai, M., Liu, E., Tao, H., Qian, Z., Fu, Q., Lin, X., Wang, M., Xu, C., & Ni, Z. (2018). Does a medical consortium influence the health outcomes of hospitalized cancer patients? An integrated care model in Shanxi, China. *International Journal of Integrated Care*, 18(2): 7, 1–10. <https://doi.org/10.5334/ijic.3588>
30. Hu, L. (2018). *Journal of Health Economics*, 67(1), 1–10. <https://doi.org/10.1016/j.jhealeco.2018.01.001>

in [Source: https://doi.org/10.1016/j.jhealeco.2018.01.001](https://doi.org/10.1016/j.jhealeco.2018.01.001)

34. Lin, X., Cai, M., Tao, H., Liu, E., Cheng Z., Xu, C., Wang, M., Xia, S., & Jiang, (2017). Insurance status, in-hospital mortality, and length of stay in hospitalized patients in Shanxi, China: A cross-sectional study. *BMJ Open*, 7(7), Article e015884 <http://dx.doi.org/10.1136/bmjopen2017-015884>

35. Cai, M., Tao, H., Liu, E., & Cheng Z. (2017). Market competition and technical efficiency: An empirical study of hospitals in Henan and Jiangsu, China. *Chinese Hospital Management*, 37(6), 22–24. (in Chinese).

36. Liu, E., Balasubramanian D., & Hunt, A. F. (2016). Does access to water matter? A study on the nutritional status of primary-aged children in India. *Journal of Public Health*, 38(4), e419–e424. <https://doi.org/10.1093/pubmed/fdv149>

37. Tung, M., & Liu, E. (2013). Sex ratio and child mortality in China. *Journal of Health Economics*, 43(1), 1–15. <https://doi.org/10.1016/j.jhealeco.2012.12.001>

43.

15. Balasubramanian D., & Liu, E. (2013, October). Childhood obesity a public health problem in the developing world: A study on India [Oral presentation]. 76th International Atlantic Economic Conference, Philadelphia, PA, United States
16. Hsieh, H., Chou, S., Lien, H., & Liu, E. (2013, July). Crowding in or crowding out: The impact of universal health insurance on intergenerational co-residence [Oral presentation]. 9th Annual Conference of Asia Pacific Economic Association, Japan
17. Balasubramanian D., & Liu, E. (2012, November). Obesity a public health problem in the developing world: A study on school going children [Oral presentation]. 11th Annual Conference of Asia Pacific Economic Association, Japan

Seminars

1. Liu, E. (2022, December) Health insurance literacy and avoidance of medical care among international students. Sinquefeld Center, Saint Louis University, Saint Louis, United States
2. Liu, E. (2021, June) Health insurance literacy: Its consequences and implications. Department of Economics, Tamkang University, Tainan, Taiwan
3. Liu, E. (2014, December) Strengthening or weakening? The impact of universal health insurance on intergenerational co-residence. Department of Economics, National Tsinghua University, Hsinchu, Taiwan
4. Liu, E. (2013, March). Using national twin data to estimate peer effects on student test scores. Department of Economics, Southern Illinois University at Carbondale, United States
5. Liu, E. (2012, March). Treatment evaluation. Department of Economics, National Cheng Kung University, Tainan, Taiwan
6. Liu, E. (2010, March). Cigarette taxes and respiratory cancers: New evidence from panel co-integration analysis. Department of Economics, National Cheng Kung University, Tainan, Taiwan
7. Liu, E. (2009, March). Maternal full-time employment and childhood obesity: Parametric, semi-parametric, and non-parametric assessment. Department of Economics, University of Saskatchewan, Canada
8. Liu, E. (2006, January) Maternal employment and childhood obesity. Department of Economics, University of Saskatchewan, Canada

GRANTS RECEIVED

1. 2024: Saint Louis University Applied Health Sciences Research Grant (2024) \$19,640
Postoperative home health and outpatient physical therapy utilization and outcomes relative to the cost in an episode-based alternative payment model
Principal Investigator: Mike Markechek, Echu Liu
Consultant: Scott Karr

4.

Textbookreviewer

Health Care Operations and Supply Chain Management by John Kros and Evelyn Brown, Josse Bass

Understanding Health Care Economics, Jones and Bartlett Learning

Statistics for Health Care Professionals

Equipment and Materials Management in Health Facilities (Health Care Operations Management) (HCM 384)
Health Care Management (HCM 381)
Health Economics (HCM 382)
Health Policy (HCM 320)
Organization Behavior and Management in Health Care (HCM 364)
Quality Management in Health Care Facilities (HCM 410)

Courses taught at the University of Southern California (as a Teaching Assistant)

Graduate courses

Applied Econometrics (ECON 615)
Economic and Financial Time Series I (ECON 613)
Economic and Financial Time Series II (ECON 614)
Probability and Statistics for Economists (ECON 514)

Undergraduate courses

Introduction to Econometrics (ECON 414)
Intermediate Microeconomic Theory (ECON 303)

SERVICE ACTIVITIES

Editorship

Editorial board, Scientific Reports, 2024-present
Associate editor, Frontiers in Public Health, 2022-present
Guest associate editor, Frontiers in Psychology, 2022
Reviewed editor, Frontiers in Public Health, 2022-2023
Guest associate editor, Frontiers in Public Health, 2021-2022
Editor, International Journal of Healthcarr, 2020-2023
Associate editor, International Journal of Healthcarr, 2015-2020

Professional Associations

Session chair and discussant, Missouri Valley Economic Association, 56th Annual Conference, October 2019

Member, Task Force for Competencies and Outcome Measures of Undergraduate Program, 2016

College

Grader, PhD Written Exam, 2018-present

Member, Workload Policy Committee, 2017-2018

Member, Faculty Search Committee, ~~On~~ Campus Academic Programs in Health Care Management, 200~~0~~2014

School

Member, Search Committee, Instructor for Radiologic Sciences, 2014

Member, Search Committee, Director of School of Allied Health, 2013

Member, Assessment Committee, 2013-2014

Member, Search Committee, Instructor for Physical Therapist Assistant, 2013

Member, Search Committee, Instructor for Mortuary Science and Funeral Service, 2013

Member, Search Committee, Instructor for Anatomy, Medical Terminology, and Physiology, 2012

Member, Assessment Tool Committee, 20~~0~~2012

Member, Research Paper of the Year Committee, 2007

Member, Dental Hygiene Faculty Search Committee, 2007

Member, Committee of College Credit for Prior Work Experience, 200~~0~~2014

College

Member, Strategic Planning Committee, 201~~0~~2014

Member, Honors Day Committee, 2011-2014

Member, PhD Program Committee, 20~~0~~2012

University

Advisor, Taiwanese Student Association, 2008

Judge of Science Fair, Illinois Junior Academy of Science, 2007

THESIS/DISSERTATION ADVISOR AND COMMITTEE

Advisors

Saint Louis University

Stinder Kaur, Doctor of Philosophy in Public Health, 2024

RuoyunWang, Doctor of Philosophy in Public Health, 2022

Kemba NoelLondon, Doctor of Philosophy in Public Health, 2017.

Committee

Saint Louis University

Dajun Tian, Doctor of Philosophy in Public Health, committee member, 2023

David Oladele, Doctor of Philosophy in Public Health, ad hoc committee member, 2022

Zidong Zhang, Doctor of Philosophy in Public Health, committee member, 2021

LongwenZhao, Doctor of Philosophy in Public Health, ad hoc committee member, 2021

Meiling Tung, Doctor of Philosophy in Education, committee member, completed December 2017

Michele Bierig, Doctor of Philosophy in Health Outcomes Research, ad hoc committee member, 2016

Southern Illinois University Carbondale

Ihung Li, Doctor of Philosophy in Education, completed December 2020

Saad Alqithami, Doctor of Philosophy in Computer Science, completed December 2016

Saad Alqithami, Master of Science in Computer Science, completed August 2012

National Cheng Kung University

Chih-Yuan Chen, Master of Science in Economics, completed June 2010

Wei-Cheng Chen and Wahn-Kuo, Master of Science in Telecommunication Management, completed June 2009

