

# YU-CHU SHEN

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## EDUCATION

Harvard University  
Ph.D. in Health Policy (field: Health Economics), 2001  
*Dissertation*: The Effects of Market Reforms and Ownership Choice on Hospital Quality

Harvard University  
A.B. with *magna cum laude* in Applied Mathematics (field: Decision and Control), 1996

## PROFESSIONAL EXPERIENCES

- 2009—present Associate Professor of Economics, Graduate School of Business and Public Policy, Naval Postgraduate School, Monterey, CA
- 2004—2009 Assistant Professor of Economics, Graduate School of Business and Public Policy, Naval Postgraduate School, Monterey, CA
- 2004—present Faculty Research Fellow, National Bureau of Economic Research, Cambridge, MA
- 2001—2004 Research Associate, Health Policy Center, the Urban Institute, Washington, DC
- 1997—2001 Research Assistant, National Bureau of Economic Research, Cambridge, MA
- 1997—2001 Webmaster, Ph.D. Program in Health Policy, Harvard University, Cambridge, MA
- 1998—1999 Teaching Fellows, Kennedy School of Government, Harvard University
- 1996—1999 Research Assistant, Harvard School of Public Health, Boston, MA
- 1994—1997 Junior Partner, Murray Research Center for the Study of Lives, Cambridge, MA

## PUBLICATIONS

### IN PEER REVIEWED JOURNALS

1. Shen, Y., Hsia, R. and Kuzma, K. 2009. Understanding the Risk Factors of Trauma Center Closures: Do Financial Pressure and Community Characteristics Matter? *Medical Care*, 47(9): *forthcoming*.
2. Shen, Y. and Eggleston, K. 2009. The Effect of Soft Budget Constraints on Access and Quality in Hospital Care. *International Journal of Healthcare Finance and Economics*, 9(2): 211-232.
3. Eggleston, K., Shen, Y., Lu, M., Li, C., Wang, J., Yang, Z., and Zhang, J. 2009. Soft Budget Constraints In China: Evidence From The Guangdong Hospital Industry. *International Journal of Healthcare Finance and Economics*, 9(2): 233-242.
4. Shen, Y., Arkes J., and Pilgrim, J. 2009. The Effects of Deployment Intensity on Post-traumatic Stress Disorder: 2002-2006. *Military Medicine*, 174 (3): 217-223.
5. Shen, Y. 2009. Do HMO and its for-profit expansion jeopardize the survival of hospital safety net services? *Health Economics*, 18(3): 305-320.
6. Eggleston, K., Shen, Y., Schmid, C. and Lau, J., Chan, J. 2008. Hospital Ownership and Quality of Care: What Explains the Different Results in the Literature? *Health Economics*, 17(12): 1345-1362.

7. Shen, Y. and Melnick, G.A. 2007. Is managed care still an effective cost containment device? *Forum for Health Economics & Policy: Vol. 9: Iss. 1 (Frontiers in Health Policy Research), Article 3.*  
<http://www.bepress.com/fhep/9/1/3>.
8. Shen, Y., Eggleston, K., Schmid, C. and Lau, J. 2007. Hospital Ownership and Financial Performance: What Explains the Different Empirical Literature Findings? *Inquiry*, 44 (1): 41-68.
9. Shen, Y. and Long, S. 2006. What's driving the downward trend in employer sponsored health insurance? *Health Services Research*, 41(6): 2074-2096.
10. Eggleston, K. and Shen, Y. 2006. Ownership and performance of health service organizations: Evidence from hospitals. *Global Forum Update on Research for Health, 3rd annual volume.*  
Available at:  
[www.globalforumhealth.org/filesupld/global\\_update3/5\\_Addressing%20global%20challenges.pdf](http://www.globalforumhealth.org/filesupld/global_update3/5_Addressing%20global%20challenges.pdf)
11. Shen, Y. and McFeeters, J. 2006. Out-of-pocket health spending between low- and high-income populations: Who is at risk of having high expenses and financial burdens? *Medical Care* 44(3): 200-209.
12. Coughlin, T., Long, S., Shen, Y. 2005. Assessing access to care under Medicaid: evidence for the nation and thirteen states. *Health Affairs* 24 (4): 1073-1083.
13. Shen, Y. and Zuckerman, S. 2005. The effect of Medicaid payment generosity on access and use among Medicaid beneficiaries. *Health Services Research* 40(3): 723-744.
14. Shen, Y. and Melnick, G.A. 2004. The effects of HMO ownership on hospital costs and revenues: Is there a difference between for-profit and not-for-profit plan? *Inquiry* 41(3): 255-267.
15. Long, S. and Shen, Y. 2004. Low-income workers with employer-sponsored insurance: Who's at risk when employers drop coverage? *Medical Care Research and Review* 61(4): 474-494.
16. Zuckerman, S. and Shen, Y. 2004. Characteristics of occasional and frequent emergency department users: Do insurance coverage and access to care matter? *Medical Care* 42(2): 176-182.
17. Shen, Y. 2003. Changes in hospital performance after ownership conversions. *Inquiry* 40 (3): 217-234.
18. Holahan, J. Nichols, L.M., Blumberg, L.J., and Shen, Y. 2003. A new approach to risk spreading via coverage expansion subsidies. *American Economic Review* 93 (2): 277-282.
19. Shen, Y. 2003. The effect of financial pressure on the quality of care in hospitals. *Journal of Health Economics* 22 (2): 243-269.
20. Shen, Y. and Zuckerman, S. 2003. Why is there state variations in employer-sponsored insurance? *Health Affairs* 22 (1): 241-251.
21. Shen, Y. 2002. The effect of ownership choice on patient outcomes after treatment for acute myocardial infarction. *Journal of Health Economics* 21 (5): 901-922.
22. Barnett, R., and Shen, Y. 1997. Gender, high- low-schedule-control household tasks and psychological distress: a study of dual-earner couples. *Journal of Family Issues* 18 (4): 403-428.

## **OTHER MANUSCRIPTS AND POLICY PAPERS**

1. Shen, Y. and Hsia, R. 2009. Changes in Emergency Department Access Between 2001 and 2005: Are Vulnerable Populations More at Risk for Declines in Access? *Manuscript*.
2. Melnick, G., Shen, Y., and Wu, Vivian. 2009. Do Concentrated Health Plan Markets Depress Hospital Prices? *Manuscript*.
3. Hsia, R. and Shen, Y. 2009. Changes in Trauma Center Access for Underserved Patients in Urban and Rural Areas in the United States, 2001-2005. *Manuscript*.
4. Lin, K. and Shen, Y. 2008. A game-theoretic model for jamming radio controlled improvised explosive devices. *NPS technical report (unclassified)*.
5. Wu, V., Shen Y., Melnick, G. 2008. What's Driving Recent Hospital Spending Growth: Price, Quantity, or Both? *Manuscript*.
6. Eggleston, K. and Shen Y. 2008. Soft Budget Constraints and Ownership: Empirical Evidence from US Hospitals. *Manuscript*.
7. Shen, Y. and Eggleston, K. 2008. The Effect of Soft Budget Constraints on Access and Quality in Hospital Care. *NBER Working Paper #14256*.
8. Shen, Y., Wu, V., and Melnick, G. 2008. The Changing Effect of HMO Market Structure: An Analysis of Penetration, Concentration, and Ownership Between 1994-2005. *NBER Working Paper #13775*.
9. Shen, Y., Waidmann, T and Zuckerman, S. 2007. What Explains Racial And Ethnic Disparities In Insurance Coverage and Access to Care? *Manuscript*.
10. Shen, Y. 2006. The effects of HMO and its for-profit expansion on the survival of specialized hospital services. *NBER working Paper #12374*.
11. Eggleston, K., Shen Y., Schmid, C., Lau, J., and Chan, J. 2006. Hospital ownership and quality of care: what explains the different results? *NBER Working Paper # 12241*.
12. Shen, Y., Eggleston, K., Schmid, C. and Lau, J. 2005. Hospital ownership and financial performance: A quantitative research review. *NBER Working Paper # 11662*.
13. Shen, Y. and McFeeters, J. 2005. Out-of-Pocket Health Spending Between Low- and High-Income Populations: Who is at Risk of Having High Financial Burdens? *NBER Working Paper # 11179*.
14. Zuckerman, S. and Shen, Y. 2004. Did recent payment rate increases improve access and use among Medi-Cal beneficiaries? *Policy Report to the California HealthCare Foundation*.
15. Blumberg, L.J. and Shen, Y. 2003. The effects of introducing federally licensed association health plans in California: a quantitative analysis. *Policy Report to the California HealthCare Foundation*. Available at <http://www.chcf.org/documents/insurance/AHPBlumberg.pdf>
16. Shen, Y. Liu, K., Kramer, A., Maxwell, S. Garrett, AB., Wissoker, D. 2003. What explains therapy cost in skilled nursing facilities? The feasibility of using clinical characteristics in a payment system. *Interim Analysis Report to the Centers of Medicare & Medicaid Services (CMS)*.

17. Blumberg, L.J. and Shen, Y. 2003. Using the Urban Institute's Health Insurance Reform Simulation Model (HIRSM) to produce state-specific results. *Report* to Robert Wood Johnson Foundation.
18. Blumberg, L.J., Shen, Y., Nichols, L.M., Buettgens, M., Dubay, L.C., and McMorrow, S. 2003. The Health Insurance Reform Simulation Model (HIRSM): Methodological detail and prototypical simulation results. *Final Report* to the US Department of Labor, PWBA, July 2003. Available at <http://www.urban.org/url.cfm?ID=410867>

#### CONFERENCE PRESENTATIONS AND INVITED TALKS

1. "The changing effect of HMO market structure: an analysis of penetration, concentration, and ownership between 1994-2005," forthcoming presentation at the Academy Health Annual Research Conference, Seattle, WA, June 10 2008.
2. "From ideas to publications: How to develop and execute a research project in health policy and health economics," presented at the National Yang Ming University, Taipei Taiwan, April 10 2008.
3. "The changing effect of HMO market structure: an analysis of penetration, concentration, and ownership between 1994-2005," presented at the National Yang Ming University, Taipei Taiwan, April 11 2008.
4. "Do HMO and its for-profit expansion jeopardize the survival of hospital safety net services?" presented at the annual INFORMS conference, Seattle, WA, November 7 2007.
5. "Effect of soft budget constraints on the survival of hospital safety net services," presented at Stanford University, RIP seminar, October 24 2007.
6. "Managed care and cost containment," presented at the National Yang Ming University, Taipei Taiwan, May 17 2007.
7. "Financial pressure and the continuity of safety net services," presented at the National Yang Ming University, Taipei Taiwan, October 27 2006.
8. "Applications of the propensity score methods in health policy studies," guest lecture at the National Yang Ming University, Taipei, Taiwan, October 19 2006.
9. "The effects of managed care and its for-profit expansion on the survival of specialized hospital services." presented at the Stanford Research-in-progress seminar, Stanford CA, October 11 2006.
10. "Systematic review of hospital ownership and quality of care: what explains the different results in the literature?" presented at the Academy Health Annual Research Conference, Seattle, WA, June 25 2006.
11. "Hospital ownership and performance: a quantitative review." presented at the American Society of Health Economists 2006 Conference, Madison, WI, June 5 2006.
12. "Is managed care still an effective cost containment device?" presented at the Ninth Annual Frontiers in Health Policy Research Meeting, Cambridge, MA, November 4 2005.
13. "Is managed care still an effective cost containment device?" presented at the Research-in-Progress

- seminar, Stanford University. Stanford, CA. September 28 2005.
14. "Hospital ownership and financial performance: an integrative research review," presented at the Academy Health Annual Research Conference, Boston, MA, June 28 2005.
  15. "Hospital ownership and performance: an integrative research review," presented at the Research-in-Progress Seminar, Stanford University. Stanford, CA. May 11 2005.
  16. "What explains racial and ethnic disparity in health insurance coverage and access to care?" presented at the American Public Health Association (APHA) Annual Meeting, Washington, DC, November 8, 2004.
  17. "The effects of financial incentives on health care access and quality." Invited talk at the Bureau of National Health Insurance, Taipei Taiwan, March 3 2004.
  18. "Welfare implications of hospital ownership conversions to for-profit status." Invited talk at the National Health Research Institute, Taipei Taiwan, March 8 2004.
  19. "Low-income workers with employer-sponsored insurance: Who is at risk when employers drop coverage?" presented at the Association for Public Policy Analysis and Management (APPAM) Annual Research Conference, Washington DC, November 8 2003.
  20. "Welfare implication of hospital ownership conversion to for-profit status," presented at the American Economics Association (AEA) 2003 Annual Meeting, Washington DC, January 4 2003.
  21. "Do insurance coverage and access to care influence emergency room use?" presented at the U.S. General Accounting Office seminar series, Washington DC, November 2002.
  22. "Changes in hospital performance after ownership conversions: an application of the propensity score method," presented at the Urban Institute Modeling Group seminar, April 2002.

## TEACHING

Graduate School of Business and Public Policy, Naval Postgraduate School. Instructor  
Economics in the Global Defense Environment  
Multivariate Data Analysis I

Kennedy School of Government, Harvard University. Teaching fellow  
Regulation and Management in the Health Care System  
Quantitative Analysis and Empirical Methods

## SPONSORED RESEARCH

Navy Manpower, Personnel, Training and Education Organization (N1 MPT&E). Economic Analysis of Post-Traumatic Stress Disorder in the GWOT Environment, \$45,500. 2/2009-9/2009. *Principal Investigator.*

The Joint IED Defeat Organization. Extension to Game-Theoretic Models for Jamming RCIEDs and Red Teaming. \$70000. 11/2008-6/2009. *Co-Principal Investigator (with Kyle Lin, OR NPS).*

Robert Wood Johnson Foundation (HCFO), #63974. Effects of Decreased Emergency Department Access on Patient Outcomes. 4/2008-3/2010. \$229,918. *Principal Investigator.*

UCSF, grant #UL1 RR024131-01. Socioeconomics Disparities in Access to Emergency and Trauma Care. \$28,750. 6/1/2008-6/30/2009. *Investigator*.

Naval Postgraduate School GSBPP Direct Funded Research Program. Economic Analysis of Post-Traumatic Stress Disorder in the GWOT Environment. \$26,880. *Principal Investigator*.

The Joint IED Defeat Organization. Game-Theoretic Models For Jamming Remote-Controlled IEDs. \$58000. 1/2008-9/2008. *Co-Principal Investigator (with Kyle Lin, OR NPS)*.

Robert Wood Johnson Foundation, #56110. The Effect of Health Plan Concentration on Hospital Prices, Costs, Capacity, Charity Care and Outcomes. \$347,137. 2/2006-1/2008. *Co-Principal Investigator (with Melnick, USC)*.

Naval Postgraduate School Research Initiative Program. Effects of Organizational and Market Changes on Hospital Behavior. \$65,587. 10/1/2004–9/30/2006. *Principal Investigator*.

Robert Wood Johnson Foundation (HCFO), #050953. Hospital Ownership and Performances: An Integrative Research Review. \$105,147. 6/2004-11/2005. *Co-Principal Investigator (with Eggleston, Tufts)*.

University of Southern California, #07398-000-00. Analysis of Hospital Data. \$30,000. 1/2002-8/2004. *Principal Investigator*.

## **PROFESSIONAL ACTIVITIES**

### **REFEREE**

Journal of Health Economics, Health Economics, Inquiry, Health Services Research, Journal of American Medical Association, Health Affairs, Health Policy, Contemporary Economic Policy, Journal of Health Care for the Poor and Underserved, Southern Economic Journal, Forum for Health Economics & Policy, Health Economics, International Journal for Equity in Health, Journal of Economics and Management Strategy, Social Science & Medicine

### **CONFERENCE COMMITTEE AND INVITED CONFERENCE**

- Abstract review committee, 2008 Academy Health Annual Research Conference
- Session Chair: Health Disparity and Access to Care. 2005 International Conference on Health Policy Research, sponsored by the American Statistical Association. Boston, MA. 10/30/2005.
- Invited Conference: *NSF Symposium on Quasi-Experimental Methods*, University of California, Berkeley, 8/1999.

### **FELLOWSHIPS & HONORS**

1999—2001	Hauser Center Fellowship for Doctoral Studies in the Nonprofit Sector
1999	Harvard Graduate Society Fellowships, Term-Time Dissertation Fellowship
1998—1999	Alfred P. Sloan Foundation Fellowship
1998	Harvard Graduate Society Fellowships, Summer Awards
1996—1998	Harvard Ph.D. Program in Health Policy Fellowship

### **PERSONAL**

Female; Fluent in English and Mandarin; Taiwan citizen and US permanent resident.