

# CURRICULUM VITAE

## SHIH-HSUN HSU



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## EDUCATION

- Ph. D. Economics, Texas A&M University, August 1991.
- M.S. Applied Mathematics, Pennsylvania State University, August 1987.
- M.S. Economics, Pennsylvania State University, August 1986.
- B.S. Agricultural Economics, National Taiwan University, June 1979.

## EXPERIENCE

- 2005-2011 Chair**  
Department of Agricultural Economics,  
National Taiwan University.
- 2007-present Member**  
Financial Restructuring Fund's Management Committee,

- Executive Yuan, ROC
- 2006-present**    **Commissioner**  
International Trade Commission (ITC),  
Ministry of Economic Affairs, Executive Yuan, ROC
- 2003-present**    **Research Fellow**  
Global Trade Analysis Project (GTAP),  
Purdue University, USA.
- 1997-present**    **Professor**  
Department of Agricultural Economics,  
National Taiwan University.
- 1998-2003**    **Member of the Editorial Advisory Board,**  
Journal of Agricultural Economics,  
International Association of Agricultural Economists (IAAE)
- 2004-2007**    **Editor-in-Chief**  
Taiwanese Agricultural Economic Review,  
The Rural Economics Society of Taiwan, ROC.
- 1996-present**    **Advisory Member of Statistical Affairs Committee,**  
Directorate-General of Budget, Accounting and Statistics (DGBAS),  
Executive Yuan, the Republic of China.
- 1997-1998**    **Advisory Member of National Income Statistics Screening Committee,**  
Directorate-General of Budget, Accounting and Statistics (DGBAS),  
Executive Yuan, the Republic of China.
- 1991-1996**    **Associate Professor**  
Department of Agricultural Economics, National Taiwan University.
- 1989-1991**    **Assistant Research Scientist**  
Agricultural Experiment Station, Texas A&M University.
- 1987-1989**    **Lecturer**  
Department of Mathematics, Texas A&M University.

## RESEARCH INTEREST

International Trade  
Agricultural Policy  
Efficiency and Productivity Analysis  
Resource and Environmental Economics  
Applied General Equilibrium Analysis

# PUBLICATIONS

## 1. Journals:

- Chen, Po-Chi, Shih-Hsun Hsu, Ching-Cheng Chang and Ming-Miin Yu, 2012.  
“Efficiency Measurements in Multi-activity Data Envelopment Analysis with Shared Inputs: an Application to Farmers’ Cooperatives in Taiwan,” *China Agricultural Economic Review*, forthcoming. (SSCI, SCI)
- Chen, Po-Chi, Ching-Cheng Chang, Ming-Miin Yu and Shih-Hsun Hsu, 2012.  
“Performance Measurement for Incineration Plants Using Multi-activity Network Data Envelopment Analysis: The Case of Taiwan,” *Journal of Environmental Management*, 93 (2012): 95-103. (SSCI, SCI)
- Liao, Shu-Yi, Chi-Chung Chen and Shih-Shun Hsu (2010), “Estimating the Value of El Niño Southern Oscillation Information in a Regional Water Market with Implications for Water Management,” *Journal of Hydrology*, 394 (2010): 347–356 (SCI).
- Chen, Chi-Chung and Shih-Hsun Hsu, 2010, “Estimating the Potential Water Transfer Prices--The Evidence from Taiwan,” *Water Resources Management*, 24(12): 3238-3256 (SCI, SSCI).
- Lee, Duu-Hwa, Shih-Hsun Hsu, Chun-To Tso, Ay Su and Duu-Jong Lee, 2010. “An Economy-wide Analysis of Hydrogen Economy in Taiwan,” *Renewable Energy* 34(8): 1947-1954 (SCI, EI).
- Lin, Yu-Hui, Kuo-Jung Lin, Shih-Hsun Hsu and Ching-Cheng Chang, 2010. "The Impacts of Sales Tax Reform on Price Levels in Taiwan," *Journal of Taiwan's Economic Forecasting and Policy*, 40(2): 87-126 (TSSCI).
- Lin, Hsing-Chun, Duu-Hwa Lee, Sheng-Ming Hsu, Ching-Cheng Chang and Shih-Hsun Hsu, 2010. "Agricultural and Macroeconomic Impact of Rising Imported Grain Prices on Taiwan," *Taiwan Agricultural Economic Review*, 15(1): 1-41 (TSSCI).
- Chen, Po-Chi, Ching-Cheng Chang, Ming-Miin Yu and Shih-Hsun Hsu, 2009.  
“Performance Assessment of Farmers’ Associations in Taiwan: An Application of Data Envelopment Analysis,” *Taiwan Economic Review*, 4(37): 415-453 (TSSCI).
- Chen, Po-Chi, Ming-Miin Yu, Ching-Cheng Chang and Shih-Hsun Hsu, 2008. “Total Factor Productivity Growth in China’s Agricultural Sector,” *China Economic Review*, 19(4): 580-593. (SCI, SSCI)
- Yu, Ming-Miin, Shih-Hsun Hsu, Ching-Cheng Chang and Duu-Hua Lee, 2008.  
“Productivity Growth of Taiwan's Major Domestic Airports in the Presence of

- Aircraft Noise,” *Transportation Research E: Logistics and Transportation Review (TRE)* 44: 543-554. (SSCI, SCI, EI)
- Wang, Hsueh-Ping, Tsung-Min Hsieh, Ching-Cheng Chang, Yir-Hueih Luh and Shih-Hsun Hsu (2008), “A Risk Analysis of Compulsory Automobile Liability Insurance- An Application of Malmquist Productivity Index,” *Academia Economic Papers*, 36(2): 195-220. (TSSCI)
- Chen, Po-Chi, Ming-Miin Yu, Ching-Cheng Chang and Shih-Hsun Hsu, 2007. “Productivity Change in Taiwan’s Farmers’ Credit Unions: A Nonparametric Risk-Adjusted Malmquist Approach,” *Agricultural Economics*, 36: 221-231. (SCI, SSCI)
- Yang, Tzu-Han, Han-Pang Su, Shih-Hsun Hsu and Hui-Chuan Ma (2007), " An Ex Post Evaluation of Taiwan’s Integrated Income Tax Reform on Economic Development and Income Distribution," *Journal of Social Sciences and Philosophy*, 19(3): 403-438. (TSSCI)
- Hsu, Shih-Hsun, Ching-Cheng Chang, Tzu-Chiang Yang, Duu-Hwa Lee and Hsing-Chun Lin (2007), " Ex Post analysis of the Economic Impact of SARS on Taiwan," *Journal of Taiwan's Economic Forecasting and Policy*, 38(1): 1-34.
- Wen, Lih-Chyi, Wen-Thuen Wang, Shih-Hsun Hsu and Shu-Yuan Lee (2007), " The Impact of the WTO’s Efforts to Liberalize Trade in Environmental Goods on the Taiwanese Economy," *Journal of Taiwan's Economic Forecasting and Policy*, 37(2): 37-73. (TSSCI)
- Lo, Chu Ping, K.C. Fung, Chelsea C. Lin and Shih-Hsun Hsu, 2007, “Exchange Rate and International Outsourcing: Would Chinese Yuan Appreciate against U.S. Dollar?” *International Journal of Applied Economics*, 4(1): 28-39.
- Hsu, Shih-Hsun, Kuo-Jung Lin, Han-Pang Su, Hwan-Shan Lin, and Duu-Hwa Lee (2006), " Forecasting Changes in Taiwan’s Industrial Structure Using Dynamic CGE Approach," *Journal of Taiwan's Economic Forecasting and Policy*, 36(2): 1-45. (TSSCI)
- Chang, Shu-Man, Kuang Lin and Shih-Hsun Hsu (2006), “The Economic Impact of Taiwan’s Cargo-Reservation: A CGE Analysis,” *Journal of Shipping and Logistics*, 49: 189-212.
- Hsu, Shih-Hsun and Chia-Hsuan Wu (2004), " Taiwan-New Zealand Free Trade Agreement: Economy-wide Impacts on Taiwan, New Zealand and Australia," *Journal of Taiwan's Economic Forecasting and Policy*, 35:1, 1-40. (TSSCI)
- Hsu, Shih-Hsun, Ping-Cheng, Li, and Kuo-Jung Lin (2003), “An Applied General Equilibrium analysis of WTO Tariff Reduction on Taiwan’s Economy with Scale Economies and Imperfect Competition,” *Academia Economic Papers*, 31:4, 637-674. (TSSCI)

- Hsu, Shih-Hsun, Chi-Chung Chen, Jenny Chin-Hwa Sun, Chia-Hsuan Wu, and Ching-Cheng Chang (2003), "The Likely Economic Impacts of a Free Trade Agreement Between Taiwan and U.S. on Taiwan Agriculture and Fisher Sectors," *Agriculture and Economics*, 30, 27-62. (TSSCI)
- Hsu, Shih-Hsun, Ching-Cheng Chang, and Kuo-Jung Lin (2003), "The Impacts of Taiwan's WTO Accession on Female-Male Labor Demand: A Dynamic CGE Analysis," *Journal of Population Studies*, 27, 1-36. (TSSCI)
- Tu, Fang-Chiu, Yungho Weng, Shih-Hsun Hsu, and Chia-Hsun Wu (2003), "The Impacts of Direct Sea and Air Links Between Taiwan and China on Agricultural Sectors," *Agricultural Economics*, 73, 67-95. (TSSCI)
- Hsu, Shih-Hsun and Bin-Ruei Wu (2002), "An Economy-wide Analysis of Impacts of Liberalizing Taiwan's Investment in China under the WTO framework," *Journal of Taiwan's Economic Forecasting and Policy*, 33, 75-110. (TSSCI)
- Hsu, Shih-Hsun, Li, Ping-Cheng, Chung-Huang Huang, and Hsing-Hua Lin (2002), "Baseline Forecasting for Greenhouse Gas Reductions in Taiwan: A Dynamic CGE Analysis," in: C.C. Chang, D.G. Shaw and R. Mendelson (eds.), *Global Warming in Asian-Pacific Region*, Edward Elgar Publishing Ltd.
- Hsu, Shih-Hsun, Yungho Weng, and Kung-Chung Hsu (2001), "The Economic Impact of the Non-Application of MATs and Direct Sailing between Taiwan, China and Hong Kong under the WTO Framework," *Journal of Social Sciences and Philosophy*, 13, 169-193. (TSSCI)
- Hsu, Shih-Hsun, Yungho Weng, Kuang-Chung Hsu and Fang-Chiu Tu (2001), "The Economic Impact of the Opening of the "Three Links" Between Taiwan and China," *Taiwan Economic Association Annual Conference Proceedings*, 95-120. (TSSCI)
- Hsu, Shih-Hsun and Ming-Miin Yu (2001), "A Study on Management Performance and Input Congestion of Taiwan's Domestic Airports When Aircraft Noise is Considered," *Taiwan Economic Association Annual Conference Proceedings*, 121-149. (TSSCI)
- Hsu, Shih-Hsun, Kuo-Jung Lin, Ching-Cheng Chang and Ping-Cheng Li (2001), "The Impacts of Taiwan's WTO Accession on Agricultural Employment: A Dynamic CGE Analysis," *Taiwan Agricultural Economic Review*, 7:1, 101-140. (TSSCI)
- Hsu, Shih-Hsun, Chung-Huang Huang, Ping-Cheng Li, and Carol Lin (2001), "Economic Impacts Analysis on Carbon Dioxide Emission Strategies: An Application of TAIGEM-D Model," *Industry of Free China*, 91:12, 1-26.
- Hsu, Shih-Hsun and Ming-Su Tsai (2001), "Economic and Trade Impacts of Regional Trade Agreement on APEC and Taiwan," *Industry of Free China*, 91:10, 1-46.

- Hsu, Shih-Hsun, Chung-Huang Huang, Ping-Cheng Li, and Carol Lin (2000), "The Clean Development Mechanism in the Kyoto Protocol and Its Potential Impacts on Taiwan's Economy and GHG Emission," *Taiwan Economic Association Annual Conference Proceedings*, 77-108. (TSSCI)
- Hsu, Shih-Hsun, Han-Pang Su, and Ping-Cheng Li (1999), "Social-Economic Effects on Taiwan of Carbon Dioxide Emission Reduction Alternatives," *Taiwan Economic Association Annual Conference Proceedings*, 1999, 103-130. (TSSCI)
- Hsu, Shih-Hsun, Chung-Huang Huang, Ping-Cheng Li, and Carol Lin (1999), "Baseline Forecasting for Carbon Dioxide Emissions with TAIGEM, A Dynamic CGE Model of Taiwan," *Taiwan Economic Association Annual Conference Proceedings*, 341-374. (TSSCI)
- Hsu, Shih-Hsun, Bin-Hsin Hsu and Kuang-Chung Hsu (1999), "A General Equilibrium Analysis of APEC EVSL Proposal," *Taiwan Agricultural Economic Review*, 4:2(1999): 137-177. (TSSCI)
- Hsu, Shih-Hsun and Bin-Hsin Hsu (1999), "An Economy-wide Analysis on Effects of APEC Agricultural Trade Liberalization and Special Treatment Proposals," *Academia Economic Papers*, 27(1999): 433-511-542. (TSSCI)
- Hsu, Shih-Hsun and Mu-chen Li (1999), "Global Climate Change and Agricultural Trade in APEC Region," *Taipei Economic Inquiry*, 36(1999): 63-104. (TSSCI)
- Hsu, Shih-Hsun, Huey-Lin Lee, Ping-Cheng Li, and Chung-Huang Huang, "Effects of Energy Efficiency Improvement Proposal on Taiwan's Economy and Its CO<sub>2</sub> Emission Reduction," *Taiwan Economic Association Annual Conference Proceedings*, 1998, 273-315. (TSSCI)
- Hsu, Shih-Hsun, Kuo-Jung Lin, and Ping-Cheng Li (1999), "Impacts of Reduced Working Hours on Taiwan's Economy - A Computable General Equilibrium (CGE) Analysis," *Taiwan Economic Association Annual Conference Proceedings*, 1998, 1-32. (TSSCI)
- Hsu, Shih-Hsun, H.C. Lin, and R.W. Liou (1999), "An Economy-wide Analysis of Taiwan and China's WTO Membership with An Emphasis on Cross-Strait Trade Structure," *Taiwan Economic Association Annual Conference Proceedings*, 1999, 81-113. (TSSCI)
- Hsu, Shih-Hsun and Buo-Yen Shen (1996), "Impacts of Trade Liberalization on Agricultural Trade Across the Strait," *Journal of Agricultural Economics*, 60(1996): 135-169. (TSSCI)
- Hsu, Shih-Hsun, C.C. Chang and Du-Hwa Lee (1995), "On Public and Private Rice Stock Holdings in Taiwan," *Taiwan Agricultural Economic Review*, 1:2(1995): 217-254. (TSSCI)

- Hsu, Shih-Hsun and Wei-Chun Tseng (1995), "Effects of Taiwan's Farmland Conversion to Non-Agriculture Sectors: An Economy-wide Analysis," *Journal of the Land Bank of Taiwan*, 32(1995): 35-66.
- Hsu, Shih-Hsun and R.C. Griffin (1993), "The Potential for Water Market Efficiency When Instream Flows Have Value," *American Journal of Agricultural Economics*, 75: 292-303. (SCI, SSCI)
- Hsu, Shih-Hsun and R.C. Griffin (1993), "A Distributed Parameter Control Systems Approach to the Analysis of Water Allocation," *Natural Resources Modeling*, 8: 191-219. (SCI, SSCI)
- Hsu, Shih-Hsun (1993), "On Asset Fixity and Farm Problem," *Agriculture and Economics*, 14: 45-67. (TSSCI)
- Hsu, Shih-Hsun (1992), "On Exponential Utility ( EU ) Functions," *Agriculture and Economics*, 13: 121-136. (TSSCI)
- Hsu, Shih-Hsun and C.C. Chang (1990), "An Adjustment-Cost Rationalization of Asset Fixity Theory," *American Journal of Agricultural Economics*, 72: 298-308. (SCI, SSCI)
- Hsu, Shih-Hsun and S.E. Stefanou (1988), "Temporal Risk Aversion in a Phased Deregulation Game," *Journal of Economic Dynamics and Control*, 12: 181-187. (SCI, SSCI)

## 2. Books:

- Chen, Guanrong, Goong Chen and Shih-Hsun Hsu (1995), *Linear Stochastic Control Systems*, CRC Press, Boca Raton. FL., U.S.A.
- Griffin, R.C., C.C. Chang and S.H. Hsu (1991), *An Economic Evaluation of Water Marketing in a Low Transaction Cost Setting*, Research report supported by the U.S. Geographical Survey, Department of the Interior, under USGS award number 14-08-0001-G1752.