

**Curriculum Vitae**

February 2008

**Mei-Chu Wang Hsiao, Ph.D.****Personal Data**

Citizenship: U.S.A.

Place of Birth: Taipei, Taiwan

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**Education**

<u>Institution</u>	<u>Date</u>	<u>Degree</u>	<u>Major</u>
National Taiwan University Taipei, Taiwan	1957-1961	B.A.	Accounting and Banking
University of Rochester Rochester, N.Y.	1962-1965 1965-1967	M.A. Ph.D.	Econometrics and Mathematical Economics

Ph.D. Thesis: "Problems in the Estimation of Indifference Surfaces Due to Non-Negativity Constraints." Advisor: Professor Richard N. Rosett, University of Rochester, 1967.

**Foreign Language Ability**

Read, write, and speak Chinese and Taiwanese.  
 Understand some Japanese.

**Professional Experience**

2000-2008      Professor of Economics, Department of Economics, University of Colorado  
 Denver, Colorado.

- 1988-2000 Associate Professor of Economics, Department of Economics, University of Colorado at Denver, Denver, CO.
- 1981-1987 Assistant Professor of Economics, Department of Economics, University of Colorado at Denver, Denver, CO.
- 2001- 2003 Co-Graduate Advisor, M.A. Program in Economics, Department of Economics, University of Colorado at Denver, Denver, CO.
- May-June 96 Visiting Scholar, Chung-Hua Institution for Economic Research, Taipei, Taiwan.
- Oct.-Nov. 96 Visiting Scholar, The Institute of Economics, Academia Sinica, Taipei, Taiwan.
- 1992-1996 & 1981-83 Graduate Advisor, M.A. Program in Economics, Department of Economics, University of Colorado at Denver, Denver, CO.
- 1990 (Fall) Undergraduate Advisor, Department of Economics, University of Colorado at Denver, Denver, CO.
- 1989 (Sum./Fall) Visiting Faculty, Department of Economics, University of Colorado at Boulder, Boulder CO.
- 1983 (July) Visiting Scholar, Hoover Institution on War, Revolution, and Peace, Stanford University, Stanford, California.
- 1979-1980 Visiting Assistant Professor (part-time), Department of Economics, University of Colorado at Boulder, Boulder, CO.
- 1978-1979 Instructor (part-time), Division of Continuing Education, University of Colorado at Boulder, Boulder, CO.
- 1975-1976 National Visiting Associate Professor, Department of Business Administration, Taiwan University, Taipei, Taiwan.
- 1967-1969 and Assistant Professor, Department of Economics, University College of Arts and Sciences, New York University, New York, NY.
- 1965-1967 Research Assistant, Department of Economics, University of Rochester, Rochester, N.Y.
- 1961-1962 Teaching Assistant, Department of Business Administration, National Taiwan University, Taipei, Taiwan.

### **Research Interests**

Econometric analysis of time-series and panel data, study of trade strategies, economic development and growth of East and Southeast Asia, and their trade relations with the United States and Japan. Economic growth of Taiwan and Korea and comparative Asian economic development.

## Refereed Publications

2007, "Prospects of a US-Taiwan Free Trade Agreement: The China Factor and Critical Assessments," in Peter C.Y. Chow, ed., Economic Integration, Democratization and National Security in East Asia: Shifting Paradigms in US, China and Taiwan Relations, Northampton, MA: Edward Elgar Publishing Inc., 191-239, (with F.S.T. Hsiao).

2006, "FDI, Exports, and GDP in East and Southeast Asia—Panel Data versus Time-Series Causality Analyses," Journal of Asian Economics, Vol. 17, No. 6, December 2006, 1082-1106, (with F.S.T. Hsiao).

2005, "Colonialism, Learning, and Convergence: A Comparison of India and Taiwan," the leading article in the Journal of the Asia Pacific Economy, Vol. 10, No. 2, May 2005, 146-177, (with F.S.T. Hsiao).

2004, "The Chaotic Attractor of Foreign Direct Investment --Why China? A Panel Data Analysis," Journal of Asian Economics, Vol. 15, No. 4, August 2004, 641-670, (with F.S.T. Hsiao).

2004, "Catching Up and Convergence: Long-run Growth in East Asia," Review of Development Economics, Vol. 8, No. 2, May 2004, 223-236, (with F.S.T. Hsiao).

2004, "America Keizai ga Ajia-Taiheiyo Chieki ni ataeru Eikyo-Sorewa Jyuyo de aruka?" Japanese translation of "The Impact of the US Economy on the Asia-Pacific Region: Does It Matter?" translated by Akio Yamashita, in Keieigaku Ronshu (Journal of Management), Ryukoku University, Japan, Vol. 43, No. 3-4, March 2004, 27-48. (See the original paper in 2003, with F.S.T. Hsiao and A. Yamashita).

2004, "Nijittseiki no 'Kisekiteki Seicho'-Higashi Ajia Hatten no Kokusai Hikaku," Japanese translation of "'Miracle Growth' in the Twentieth Century – International Comparisons of East Asian Development," translated by Numata Satoshi, in Kaetsu University Kankyu Ronshu (Kaetsu University Research Review), Kaetsu University, Japan, Vol. 47, No. 1, December 2004, 143-186. (See the original paper in 2003, with F.S.T. Hsiao).

2003, "The Impact of the US Economy on the Asia-Pacific Region: Does It Matter?" Journal of Asian Economics, Vol. 14, No. 2, March/April, 2003, pp. 219-241, (with F.S.T. Hsiao and A. Yamashita).

2003, "'Miracle Growth' in the Twentieth Century – International Comparisons of East Asian Development," the leading article in the World Development, Vol. 31, No. 2, February 2003, pp. 227-257, (with F.S.T. Hsiao).

2002, "Taiwan in the Global Economy: Past, Present, and Future," in Taiwan in the Global Economy: From an Agrarian Economy to an Exporter of High-Tech Products, ed. by Peter C.Y. Chow, Westport, CT: Praeger, 2002, pp. 161-222, (with F.S.T. Hsiao).

2001, "Capital Flows and Exchange Rates – Recent Korean and Taiwanese Experience and Challenges," Journal of Asian Economics, 12(3), Fall 2001, pp. 353-381, (with F.S.T. Hsiao).

2001, "Diminishing Returns and Asian NIEs - How They Overcome the Iron Law," in the Conf. Proceeding on Economic Development in Memory of Professor Mo-Huan Hsing, The Institute of

Economics, Academia Sinica, Taipei, Taiwan, October 2001, pp. 239-286, (with F.S.T. Hsiao).  
2001, "Economic Liberalization and Development - The Case of Lifting Martial Law in Taiwan," in Change of an Authoritarian Regime: Taiwan in the Post - Martial Law Era, ed. by Taiwan Studies Promotion Committee of Academia Sinica, Taipei, Taiwan. January 2001, pp. 353-379, (with F.S.T. Hsiao).

1999, "The Historical Traditions of Taiwanese Small-and Medium Enterprises," in Papers in Taiwan's Commercial Traditions, ed. by Fu-san Huang and Ka-im Ong, Institute of Taiwanese History (Preparatory Office), Academia Sinica, Taipei, Taiwan, May 1999, pp. 465-524, (with F.S.T. Hsiao).

1998, "Miracle or Myth of Asian NICs' Growth - The Irony of Numbers," in The New Industrial Revolution in Asian Economies, Research in Asian Economic Studies, Vol. 8, ed. by Richard Hooley and Zainal-Abidin Mahani, Greenwich, CT: JAI Press, 1998, pp. 51-68, (with F.S.T. Hsiao).

1998, "Colonial Linkages in Early Postwar Taiwanese Economic Development," in Harvard Studies on Taiwan, Vol. II, ed. by William C. Kirby, The John King Fairbank Center for East Asian Research at Harvard University, 1998, pp. 91-117, (with F.S.T. Hsiao).

1996, "Taiwanese Economic Development and Foreign Trade," in John Y.T. Kuark, ed., Comparative Asian Economies, in the Contemporary Studies in Economic and Financial Analysis, Vol. 77, Part B, Greenwich, CT: JAI Press, 1996, pp. 211-302, (with F.S.T. Hsiao).

Also published in W.C. Kirby and J.M. Greene, eds, Harvard Studies on Taiwan: Papers of the Taiwan Studies Workshop, The John King Fairbank Center for East Asian Research, Harvard University, Volume 1, 1995, pp. 199-270.

1995, "Globalization of the Taiwanese Economy and U.S. - Taiwan Trade Relations," in C.F. Lee, ed., Advances in Pacific Basin Business, Economics, and Finance, Vol. 1, Greenwich, CT: JAI Press, 1995, pp. 197-214, (with F.S.T. Hsiao).

1995, "International Policy Coordination with a Dominant Player - The Cases of the United States, Japan, Taiwan, and Korea," Journal of Asian Economics, Vol.6, No.1, Spring 1995, pp.29-52, (with F.S.T. Hsiao).

1994, "Monetary Policy Coordination between Large and Small Countries: An Empirical Study," the leading article in the Journal of Economic Development, Vol. 19, No. 2, December 1994, pp. 7-46, (with F.S.T. Hsiao).

1994, "Gains from Policy Coordination between Taiwan and the United States - On the Games Governments Play," in M. Jan Dutta and R. Shiratori eds., Asia-Pacific Economies: 1990s and Beyond, in the Research in Asian Economic Studies, Vol. 5, Greenwich, CT: JAI Press, 1994, pp. 239-264, (with F.S.T. Hsiao).

1992, "Direct Foreign Investment, Technology Transfer, and Industrial Development: The Case of Electronics Industry in Taiwan," in M. Jan Dutta, ed., Asian Economic Regimes: An Adaptive Innovation Paradigm, in the Research in Asian Economic Studies, Vol. 4A, Greenwich, CT: JAI Press, 1992, pp. 145-164.

1991, "Product Life-Cycle and Diffusion of Technology - The Taiwanese Case," in International Economic Integration: Lessons from the 1980s and Prospects for the 1990s, Proceedings of The

Fifth International Congress of the North American Economics and Finance Association, ed. by B.W. Poulson, C.M. Becker, and A. Rappapoart, University of Northern Iowa, 1991, pp. 809-822, (with F.S.T. Hsiao).

1989, "Japanese Experience of Industrialization and Economic Performance of Korea and Taiwan: Tests of Similarity," in C.F. Lee and S.C. Hu, ed., Taiwan's Foreign Investment, Exports and Financial Analysis, in the Advances in Financial Planning and Forecasting, Greenwich, CT: JAI Press, 1989, pp. 157-190, (with F.S.T. Hsiao).

1988, "Energy and Income Relationship of the Asian NICs: An Econometric Analysis," in M. Jan Dutta, ed., Asian Industrialization: Changing Economic Structures, in the Research in Asian Economic Studies, Vol. 1, Part B, Greenwich, CT: JAI Press, 1988, pp. 239-256, (with F.S.T. Hsiao).

1987, "Tests of Causality and Exogeneity between Exports and Economic Growth: The Case of Asian NICs," Journal of Economic Development, Vol. 12, No. 2, December 1987, pp. 143-159.

1985, "Elasticities, Ratios, and Energy Modelling," Energy Economics, Vol. 7, No. 3, July 1985, pp. 153-158, (with F.S.T. Hsiao).

1985, "Teaching Regression Analysis with Spreadsheets," The Journal of Computers in Mathematics and Science Teaching, IV(4), Summer 1985, pp. 21-26.

1985, "A CAI Framework of Multiple Regression Analysis on Spreadsheets," Collegiate Microcomputer, Vol. III, No. 3, Autumn 1985, pp. 239-248.

1985, "Multiple Regression Analysis: A Lotus 1-2-3 Template," a Microcomputer Software Program, Social Science Microcomputer Review, SSMR Software, Department of North Carolina State University, Raleigh, NC, (with F.S.T. Hsiao).

1984, "Direct Foreign Investment and Economic Development - The Taiwanese Experience," Bulletin of North America Taiwanese Professors' Association, Vol. 4, No. 2, Dec. 1984, pp. 7-15, (with F.S.T. Hsiao).

1983, "Some Development Indicators of Taiwan: A Comparative Study," Journal of Economic Development, Vol. 8, No. 1, July 1983, pp. 45-58, (with F.S.T. Hsiao).

1981, "International Comparisons of the Taiwanese Economy," in Newsletter of North America Taiwanese Professors' Association, Vol. I, No. 2-3, April 1981, pp.5-9, (with F.S.T. Hsiao).

### **Book Reviews**

1986 A Book Review on Energy Demand and Economic Growth: Measurement and Conceptual Issues in Policy Analysis, by C.M. Siddayao, The Journal of Energy and Development, Vol. XII, No. 1, Autumn, 1986, pp. 152-154.

1986 A Book Review on Global Energy: Assessing the Future by J. Edmonds and J.M. Reilly, Southern Economic Journal, Vol. 52, No. 4, April 1986, pp. 1194-1196.

### **Microcomputer Software Review**

1986 A Microcomputer Software Review on RATS (Regression Analysis of Time Series) published by VAR Econometrics, Minneapolis, MN, in Social Science Microcomputer Review,

Vol. 4, No. 3, Fall 1986, pp. 390-394.

### **Non-Refereed Publications**

2005, "Taiwan's Sustainable Economic Development – Past, Present, and Future," in Taiwan's Sustainable Development, the Proceedings of North America Taiwanese Professors' Association Annual Conference, Salt Lake City, July 2005, (with F.S.T. Hsiao).

2003, "Colonialism, Learning, and Convergence: A Comparison of India and Taiwan," the Conference Proceedings of Catch-Up Growth and Technology Transfer in Asia and Western Europe, Groningen Growth and Development Center, University of Groningen, the Netherlands, October 2003, (with F.S.T. Hsiao).

2003, "The IT Revolution and Macroeconomic Volatility in Newly Developed Countries – The Korean and Taiwanese Experiences," Proceedings of the International Conference on Korea and the World Economy, II, Research Center for International Economics (RCIE), University of Washington, Seattle, August 2003, (with F.S.T. Hsiao).

2002, Extended Summary of "Colonialism, Learning, and Convergence – Comparisons of India and Taiwan," translated into Japanese by Jun Sugawara, in The East Asia Perspective, the International Centre for the Study of East Asian Development (ICSEAD), Kitakyushu, Japan, December 2002, pp. 95-97, (with F.S.T. Hsiao).

2002, "The Taiwanese Economy in Transition: Is It the Victim of Its Own Success?" in the Conference Proceedings of CAPA-DC (Chinese-American Professional Association – Washington, D.C.) 2002 Second Semi-Annual Conf., Oct. 2002, pp. 1-6, (with F.S. T. Hsiao).

1999, "Impacts of Asian Financial Crisis on Taiwan and Korea – The Twins are Different," in the Proceedings of The 1999 Chinese American Academic and Professional Convention, July 2-5, 1999, pp. 4.7.1 - 4.7.5, (with F.S.T. Hsiao).

1983, "Estimation of Energy and GDP Relation in the Newly Industrializin Countries - Trends and Implications," Selected Abstract of the paper presented at SWEA Annual Meeting, Southwestern Journal of Economic Abstracts, Vol. 4, No. 1, 1983, pp. 7-8.

1969, "The Use of Probit-Regression for the Estimation of the Weights in a Constant Utility Index Number," Abstract, Econometric Society Preliminary Program and Abstracts of papers Presented at December 1969 Meetings, New York, N.Y., pp. 16-17, (with R.N. Rosett).

### **Publications in Preparation**

"The IT Revolution and Macroeconomic Volatility in Newly Developed Countries: A GARCH – VAR Approach," paper submitted for presentation at the 8th Annual Missouri Economics Conference, Univ. of Missouri – Columbia, MO, March, 2008 (with F.S.T. Hsiao).

"Foreign Direct Investment in Emerging India and China – A Dynamic Panel Data Analysis," (with F.S.T. Hsiao)

### **Research Presentations at Meetings and Seminars**

2007 "The IT Revolution and Macroeconomic Volatility in Newly Developed Countries: A GARCH – VAR Approach," presented in a Seminar at the Department of Economics, University

of Colorado Denver, Nov. 2, 2007, (with F.S.T. Hsiao).

2006 “FDI, Exports, and Growth in East and Southeast Asia – Evidence from Time-Series and Panel Data Causality Analyses,” at the 2006 International Conference on Korea and the World Economy, V, at Korea University, Seoul, Korea, July 7-8, 2006, (with F.S.T. Hsiao).

2006 “FDI, Exports, and GDP in East and Southeast Asia – Panel Data versus Time-Series Causality Analyses,” a revised paper, presented in a Seminar at the Department of Economics, UCDHSC, Oct. 20, 2006, (with F.S.T. Hsiao).

2005 “Taiwan and China: Special State-to-State Economic Relations and Taiwan’s FTA Policy,” at the Conference on Challenges and Opportunities in the Triangular Relations among the U.S., China, and Taiwan: Prospects in the 2<sup>nd</sup> Bush Administration, in the City College, City Univ. of New York, NY, 05/20-21/05, (with F.S.T. Hsiao).

2005 “Taiwan’s Economic Development in the 20<sup>th</sup> Century: How the ‘Miracle’ Happened” at the 2005 Annual Meetings of the North America Taiwanese Professors’ Association and Taiwanese American Foundation of San Diego, CA, 02/05-06/05, (with F.S.T. Hsiao).

2004 “Foreign Direct Investment, Trade, and Growth – Panel Causality Tests for Taiwan, Korea, and China,” at 2004 Taipei International Conference on Growth and Development in Global Perspectives, Academia Sinica, Taipei, Taiwan, 07/23-24/04, (with F.S.T. Hsiao).

2004 “The IT Revolution and International Comparisons of the Taiwanese Economy,” at the Symposium on the Taiwanese Economy, sponsored by the North America Taiwanese Professors’ Assoc. - SCAL Chapter, Orange County, CA, 02/21/04, (with F.S.T. Hsiao).

2004 “The Chaotic Attractor of Foreign Direct Investment: Why China? A Panel Data Analysis,” at the joint session of American Economic Association and American Committee on Asian Economic Studies, 2004 Annual Convention of Allied Social Science Associations (ASSA), Jan. 04-06, 2004, San Diego, CA., (with F.S.T. Hsiao). Also presented the paper in a seminar at the Dept of Economics, CU-Denver, 01/23/04, and in a seminar at the Institute of Economics, Academia Sinica, Taipei, Taiwan, 07/27/04.

2003 “Colonialism, Learning, and Convergence: A Comparison of India and Taiwan,” Conference on Catch-Up Growth and Technology Transfer in Asia and Western Europe, Groningen Growth and Development Center, University of Groningen, the Netherlands, October 2003, (with F.S.T. Hsiao).

2003 “The IT Revolution and Macroeconomic Volatility in Newly Developed Countries – The Korean and Taiwanese Experiences,” at the International Conference on Korea and the World Economy, II, Research Center for International Economics (RCIE), University of Washington, Seattle, August 2003, (with F.S.T. Hsiao).

2003 “The IT Revolution and the Taiwanese Economy,” at the Professional Seminar of the National Taiwan University Alumni Association Greater NY-NJ Area, New York City, May 2003, (with F.S.T. Hsiao).

2003 “The Impact of U.S. Recession on the Asia-Pacific Region: Does It Matter?” At the joint session of American Economic Association and American Committee on Asian Economic Studies (AEA/ACAES), at 2003 Annual Convention of Allied Social Science Assoc. (ASSA), Washington, D.C., 01/3- 5, 2003, (with F.S.T. Hsiao and A. Yamashita).

2002 “The Taiwanese Economy in Transition: Is It the Victim of Its Own Success?” At the

Chinese-American Professionals Association – Washington, D.C. (CAPA-DC) Second Semi-Annual Conference in October 2002, (with F.S.T. Hsiao).

2002 “Colonialism, Learning, and Convergence: Comparisons of India and Taiwan,” at the 2002 Annual Convention of Allied Social Science Associations (ASSA)/Association of Indian Economics Studies (AIES), Atlanta, GA, January 4-6, 2002. Also presented at the International Centre for the Study of East Asian Development (ICSEAD, 6/11/02) and the Economics Dept Seminar at Kansai University (6/18/02), Japan, (with F.S.T. Hsiao).

2001 “Hollowing Effects of Outward Foreign Direct Investment – The Case of Taiwan,” at the Economics Section of the National Taiwan University Greater N Y – NJ Area Alumni Association Conference, Newark, N.J., November 2001, (with F.S.T. Hsiao).

2001 “Capital Flows and Exchange Rates – Recent Korean and Taiwanese Experiences and Challenges,” at American Economic Association / American Committee on Asian Economic Studies (AEA/ACAES), at The 2001 Annual Convention of Allied Social Science Associations, New Orleans, January 5-7, 2001, (with F.S.T. Hsiao).

2001 “Diminishing Returns and Asian NIEs – How They Overcome the Iron Law,” at the Conference on Economic Development in Memory of Professor Mo-Huan Hsing, The Institute of Economics, Academia Sinica, Taipei, Taiwan, Jan., 2001, (with F.S.T. Hsiao).

2000 “Asian Financial Crisis in Taiwan and Korea – The Twins are Different,” at The 2000 Annual Convention of Allied Social Science Associations, Boston, MA, Jan. 7-9, 2000, (with F.S.T. Hsiao).

1999 “Impacts of Asian Financial Crisis on Taiwan and Korea – The Twins are Different,” at the 1999 Chinese American Academic and Professional Convention, July 2-5, 1999, Washington, D.C., (with F.S.T. Hsiao).

1999 “Economic Liberalization and Development – The Case of Post-Martial Law Era in Taiwan,” at the International Conference on the Transformation of an Authoritarian Regime: Taiwan in the Post-Martial Law Era, Academia Sinica, Taipei, Taiwan, April 1-3, 1999, (with F.S.T. Hsiao).

1999 “Catching Up but Falling Behind in the Long Run - On Capitalistic Development of Taiwan and Korea,” (with F.S.T. Hsiao), at The 1999 Annual Convention of Allied Social Science Associations, New York, N.Y., Jan. 3-5, 1999. Also presented in the invited seminars at Otaru University of Commerce (6/12/98), International Center for the Study of East Asian Development (ICSEAD, 6/15/98), and Kansai University (6/18/98), Japan. Also presented at the Economics Department Seminar, CU-Boulder (10/16/1998).

1998 “Pacific Trade Triangle and the Growth of Korea and Taiwan - Cointegration and Causality Analyses,” (invited) at Otaru University of Commerce (6/12/98) and International Center for the Study of East Asian Development (ICSEAD, 6/15/98), Japan. The early version of the paper was presented at the 1996 Meetings of the Eastern Economic Association, Boston, MA and a seminar in the Center for Research on Economic and Social Policy of the University of Colorado at Denver (1996).

1996 “The Historical Traditions of Taiwanese Small-and-Medium Enterprises,” at the International Conference of Taiwan’s Commercial Traditions, the Institute of Taiwanese History, Academia Sinica, Taipei, Taiwan, Dec. 14-15, 1996, (with F.S.T. Hsiao).

1996 “Colonial Linkages in Early Postwar Taiwanese Economic Development,” Taiwan Studies Conferences on the Japanese Legacy in Post-Colonial Taiwan, sponsored by the Joint Center for East Asian Studies at Washington University in St. Louis and University of Missouri, St. Louis, Nov. 15-16, 1996. Also at the Economics Department Seminar at National Taiwan University, Taipei, Taiwan (6/96), (with F.S.T. Hsiao).

1996 “Diminishing Returns and Asian NICs - How They Overcome the Iron Law,” at The Fifth Convention of the East Asian Economic Association (EAEA) in Bangkok, Thailand, October 25-26, 1996. Also presented at a seminar in Chung-Hua Institution of Economic Research, Taipei, Taiwan, 6/13/96, (with F.S.T. Hsiao).

1996 “Miracle or Myth in the Asian NICs’ Growth - The Irony of Numbers,” at The 7<sup>th</sup> Biennial Conference on U.S.-Asia Economic Relations, Kuala Lumpur, Malaysia, May 14-17, 1996. Also presented at a seminar in Chung-Hua Institution of Economic Research, Taipei, Taiwan, 6/13/96, (with F.S.T. Hsiao).

1994 “International Policy Coordination with a Dominant Player - The Cases of the United States, Japan, Taiwan, and Korea,” at The 6<sup>th</sup> Biennial Conference on United States-Asia Economic Relations, at Brandeis University, Waltham, MA, May 16-18, 1994, (with F.S.T. Hsiao).

1994 “Taiwanese Economic Development and Foreign Trade,” at a seminar in The John King Fairbank Center for East Asian Research, Harvard University, Cambridge, MA, January 25, 1994, (with F.S.T. Hsiao).

1993 “Monetary Policy Coordination between Large and Small Countries: An Empirical Study,” at The 1993 Far-Eastern Meeting of the Econometric Society, June 25-27, 1993, Taipei, Taiwan, (with F.S.T. Hsiao).

1993 “Gains from Strategic International Policy Coordination in Small Open Economies,” at Allied Social Science Associations Meeting, Jan. 4-7, 1993, Anaheim, CA. Also presented in the Economics Department Seminar (Discussion Papers in Economics #93-04), CU-Boulder, (with F.S.T. Hsiao).

1991 “Gains from Policy Coordination between Taiwan and the United States – On the Games Governments Play,” at The Fifth Biennial Conference on United States - Asia Economic Relations, June 20-22, 1991, Tokai University, Tokyo, Japan, (with F.S.T. Hsiao).

1990 “Trade Relations of Taiwan and South Korea with the United States and Japan - Tests of Cointegration and Causality,” at The 6<sup>th</sup> International Congress of the North American Economics and Finance Assoc., Mexico City, Mexico, 08/7-9,1990, (with F.S.T. Hsiao).

1990 “The U.S.-Taiwan Trade Relations - Impacts of Globalization of the Taiwanese Economy,” at the Conference of Taiwan Economy and Trade, Washington, D.C., April 18-20, 1990, (with F.S.T. Hsiao).

1989 “Product Life-Cycle and Diffusion of Technology: The Taiwanese Case,” at The Fifth International Congress of the North American Economics and Finance Association, University of Colorado, Boulder, CO, July 21-24, 1989, (with F.S.T. Hsiao).

1989 “Direct Foreign Investment, Technology Transfer, and Industrial Development: The Case of Electronics Industry in Taiwan,” at The Fourth Conference on United States-Asia Economic Relations, Columbia University, New York, N.Y., June 19-21, 1989.

1987 "Energy and Income Relationship of the Asian NICs: An Econometric Analysis," at The Third Conference on United States-Asia Economic Relations, in Hong Kong, June 21-25, 1987. Also presented at Graduate School Research Seminar, Kansai Univ., Osaka, Japan, 7/9/87.

1986 "Aggregate Data and Micro-Choice Models: An Analysis of Active Solar Installations in the USA," at North American Annual Meeting of Econometric Society, New Orleans, LA, December 1986.

1986 "Implementation of the RATS Program on Microcomputers with Some Applications," at the seminars of Department of Economics, University of Colorado at Boulder, 2/21/86 and Department of Economics, University of Colorado at Denver, 3/19/86.

1984 "Tests of Causality and Exogeneity between Exports and Economic Growth," at the North American Annual Meeting of Econometric Society, Dallas, TX, December 1984, and also presented at a seminar, Department of Economics, University of Colorado at Denver, 11/84.

1984 "Foreign Direct Investment and Economic Development - The Taiwanese Experience and Lessons to China," at The 5th Annual Meeting of the N. America Taiwanese Professors' Assoc., Eastern Michigan University, Ypsilanti, MI, July 1984, (with F.S.T. Hsiao).

1984 "Foreign Trade and Investment in China and Taiwan - Can China Learn from the Taiwanese Experience?" Annual Meeting of the Western Association of Social Sciences, San Diego, CA, April 1984, (with F.S.T. Hsiao).

1983 "What Makes Asian NICs Tick? -- An Analysis of Changes in Trade Structures," at the Ninety-Sixth Annual Meeting of the American Economic Association, San Francisco, CA, December 1983, (with F.S.T. Hsiao).

1983 "Estimation of Energy Demand of the Asian NICs and Its Implications," at The Fourth International Conference on Asian Energy Supplies and Requirements, International Research Center for Energy and Economic Development (ICEED), University of Colorado at Boulder, Colorado, October 1983.

1983 "What Makes Asian NICs Tick? - Changes in Trade Structure with an Emphasis on South Korea," at 1983 Regional Conference of Asian Studies Association on the Pacific Coast, University of Alaska, Fairbanks, June 1983, (with F.S.T. Hsiao).

1983 "Estimation of Energy and GDP Relation in the Newly Industrializing Counties - Trends and Implications," at Southwestern Economic Association Annual Meeting, Houston, Texas, Mar. 1983. Also presented at seminars in Dept of Economics, Univ. of Colorado at Boulder (4/83) and Dept of Economics, Univ. of Colorado at Denver (5/83).

1982 "Some Development Indicators of Taiwan: A Comparative Study," at Western Conference of the Association for Asian Studies, University of Colorado at Boulder, September 1982, (with F. S.T. Hsiao).

1969 "The Use of Probit-Regression for the Estimation of Weights in a Constant Utility Index," Econometric Society Annual Meeting, New York, N.Y., Dec. 1969, (with R. N. Rosett).

## **Other Indicators of Scholarship**

### **A. Research and Teaching Supports**

- 1993 Grant for Travel Allowance to present a paper and chair a session in 1993 Far-Eastern Meeting of the Econometric Society, June 25-27, 1993, Taipei, Taiwan.
- 1992-93 Grant for Purchasing Software for the Behavioral and Social Sciences Instructional Microcomputer Lab, the Student Information Technology Fee Advisory Committee, CU-Denver.
- 1989 Grant of Faculty Travel Expense Assistance for Research, CLAS, CU-Denver.
- 1988 Grant for purchasing Regression Analysis for Time-Series (RATS) software program for econometrics classes and Economics Department, CLAS Dean's Office, CU-Denver.
- 1988 Grant of the Faculty Research Support, CLAS, CU-Denver.
- 1987 Award a Fund for University Scholarly Publications (for Reprint Cost), the Office of Research Administration, CU-Denver.
- 1987 Grant of Faculty Travel Expense Assistance for Research, International Affairs Program, CU-Denver.
- 1984-1985 Grant of a Graduate Assistant for Research, CLAS, CU-Denver.
- 1984 Spr. Award of Released Teaching Time (one course) for Research, CLAS, CU-Denver.
- 1983 Grant of a Graduate Assistant for Research, CLAS, CU-Denver (Fall).
- 1983 Grant of Faculty Seed Money Prog., Research Council, Graduate School at CU-Denver.
- 1981 Grant for Innovation in Instruction (Statistics and Econometrics), Teaching and Educational Standards Committee, CU-Denver (Spring).

### **B. Other Professional Activities**

- 2007/Nov. Attended Chancellor's Symposium, University of Colorado Denver, Anschutz Medical Campus, Aurora, CO.
- 2007/Mar. Attended Grant Writing Workshop, University of Colorado Denver, Downtown Denver Campus, CO. Mar. 30 and April 6.
- 2006/Jan. Attended the 2006 Annual Convention of Allied Social Science Associations (ASSA), in Boston, MA.
- 2006/Mar. Attended the CU Women Succeeding Faculty Development Symposium, at Downtown Denver Campus, sponsored by the Campuses of the University of Colorado.
- 2006/Mar Attended a workshop on the Applications of Microsoft Power Point, at CU-Boulder.

2005/July Attended the 2005 Annual Conference on “Developing a Sustainable Taiwan,” North America Taiwanese Professors’ Association (NATPA), Salt Lake City, UT

2005/May Attended International Symposium on a U.S. - Taiwan Free Trade Agreement: Challenges and Prospects, in Hyatt Regency Hotel on Capitol Hill, Washington, D.C.

2005/Jan. Attended the 2005 Annual Convention of Allied Social Science Association (ASSA), Philadelphia, PA.

2003/Nov. Participated in The 2003 PKAL Assemblies – Making Creative Use of Emerging Technologies to Enhance Student Learning, Univ. of Colorado at Boulder, CO.

1999/Apr. Participated in Asian Development Bank Workshop, Colo Trade Center, Denver, CO.

1997/Apr. Participated in GAMS Workshop, Resources for the Future and the Department of Economics, University of Colorado at Boulder.

1992/Apr. Participated in the Colorado Exchange Faculty Conference “Scholarship Reconsidered,” at Denver, CO.

1990/Feb.-Mar. Participated in the Discussion Teaching Seminar, Teaching Com., CU-Denver.

1988/Sept. Participated in the Conference on Instructional Computing in Higher Education, sponsored by IBM, at CU-Boulder.

1988/Feb. Participated in the 1st Annual CU-Denver Faculty Teaching Excellence Symposium.

1986-1989 Participated in Annual Research Forum, Research Committee, University of Colorado at Denver (To display research publications).

1982/Fall Attended CU-Boulder Business School's Seminar Series on the Use of Microcomputers for Teaching and Research.

1968/Sum. Attended the Institute on Computer Science in Social and Behavioral Science Research for College Teachers, by the National Science Foundation, at the University of Colorado at Boulder.

### **Recognition and Honors**

1994 Excellence in Service Award, CLAS, CU-Denver.

1989 Nominated for CLAS Teaching Excellence Award, CU-Denver.

1988 Nominated for CLAS Teaching Excellence Award, CU-Denver.

1988 Nominated for CLAS Research/Creative Work Award, CU-Denver.

1975-1976 Grant for Visiting Scholar, National Taiwan University and National Science Council, Taipei, Taiwan.

1965-1967 Research Assistantship, Dept of Economics, Univ. of Rochester, Rochester, N.Y.

1962-1965 Graduate Fellowship, Dept of Economics, University of Rochester, Rochester, N.Y.

### **Professional Organizations**

Member of:

American Economic Association (AEA), 1981-2006.

Econometric Society, 1981 – 2006.

### **Teaching Interests**

Econometrics and Statistics  
 Mathematical Economics  
 Economic Theory (Micro and Macro)  
 Economics of Development  
 Microcomputer Applications in Statistics and Econometrics  
 Quantitative Methods in Business and Economics

## **Courses Taught at the University of Colorado at Denver**

### Undergraduate Level:

ECON 2012 Principles of Economics-Macro  
 ECON 2022 Principles of Economics-Micro  
 ECON 3000 Accelerated Principles of Economics  
 ECON 3801 Introduction to Mathematical Economics  
 ECON 3811 Statistics with Microcomputer Applications  
 ECON 4770 Economic Development: Theory and Problems  
 ECON 4811 Introduction to Econometrics

### Graduate Level:

ECON 5770 Economic Development: Theory and Problems  
 ECON 5803 Mathematical Economics  
 ECON 5811 Econometrics  
 ECON 6810 Intermediate Econometrics

## **Services**

### **A. University Services**

#### **1. Department of Economics**

2001- 03. Co-Graduate Advisor, M.A. Program in Economics.  
 1992-96, 1981-83. Graduate Advisor, M.A. Program in Economics.  
 2007-08, 2000-01, 1999-00, 1997-98, 1994-95, 1992-93, 1988-89, 1981-84:  
     Search Committee for Economics Faculty.  
 1991-92, 1982-83. Economics Department Courses Review and Evaluation Meetings.  
 1984-87. Search Committee for Economics Department Chair.  
 1999, 1993, 1991, 1985. M.A. in Economics Curriculum Revision Committee.  
 1987-88. Coordinator, Economics Department Course-scheduling.  
 1990 (Fall). Undergraduate Advisor for Economics Majors and Minors.  
 2007, 2006, 2005, 2004, 2003, 2002, 2001, 1997-1999, 1992-95, 1991, 1987:  
     Economics Department Faculty Reappointment, Tenure, and Promotion Committees.  
 2003, 2002, 2001, 1997-1999 (Chair) and 1993-95 (Chair), Teaching Evaluation Subcommittee,  
     Economics Department Faculty Reappointment, Tenure, and Promotion.  
 2002, 2001. Economics Department at CU-Denver Career Fair  
 2003 Committee for Post Tenure Review.  
 2007, 2006, 2005, 2004 Chair, Service Evaluation Subcommittee, Economics Department  
     Faculty Reappointment, Tenure, and Promotion.

#### **2. College of Liberal Arts and Sciences**

- 1982 CLAS Microcomputer Advisory Group.
- 1982 Search Committee for Faculty, Mathematics Department.
- 1983-84 Political Economy Program Planning Group.
- 1986-87 Faculty Volunteer, Advantage Scholarship Program.
- 1988 College Search Committee for Associate Dean for Curriculum and Undergraduate Academic Affairs.
- 1989 CLAS Presidential Teaching Scholars Selection Committee.
- 2000, 1995, 1990 Search Committee for Faculty, Sociology Department.
- 1992-94 CLAS Dean's Advisory Committee.
- 1995 CLAS Excellence in Service Award Selection Committee.
- 1997-98 CLAS Admissions Committee.
- 2002-03 1998-01 CLAS Educational Policy and Planning Committee.
- 2002-03, 1998-2002. CLAS Curriculum Committee.
- 2006, 2005, 2004 CLAS General Scholarship Committee.

### **3. CU-Denver Campus**

- 1981-83 Graduate Council, The Graduate School, CU-Denver.
- 1983-84 Minority Affairs Committee, Faculty Senate, CU-Denver.
- 1987-89 Coordinator, Economics Department and Auraria Library, CU-Denver.
- 1990-92 CLAS Representative, CU-Denver Budget Priorities Committee of Faculty Assembly.
- 1993-96, 1990-93 CLAS Representative, CU-Denver Teaching Committee of Faculty Assembly.
- 1991-92 Search Committee for the Director of the Office of Teaching Effectiveness, CU-Denver.
- 1991-93 CU-Denver Multicultural Diversity Advisory Committee.
- 1994-95 CU-Denver Graduate School Curriculum Committee.
- 1995 CU-Denver Service Award Selection Committee.
- 1998-99 CU-Denver Cultural Diversity Advisory Committee.
- 2007, 2006, 2005, 2000-03, 1988-90 CU-Denver Faculty Assembly--CLAS Representative.
- 2006/Oct. Open House of Downtown Denver Campus, UCDHSC – Economics representative.

### **4. University System**

- 1982 CU-Denver Representative to the Search Committee for Faculty in Economics Department, CU-Boulder.
- 1981-83 Coordinator from CU-Denver, the Graduate Program in Economics at CU-Boulder and CU-Denver Campuses.
- 1989-90 Faculty Council Committee on Women, Univ. System Faculty Council, CU.
- 2006 Economics faculty participant to the Panel Discussions on the Ph.D. Programs in Natural and Social Sciences to the Student Scholars and Staff of the Ronald E. McNair Post-Baccalaureate Achievement Program, at CU – Boulder, 07/27-28/2006.

## **B. Professional Conferences and Referee**

### **1. Conferences**

- Mar. 1983 Session Chair, Southwestern Economic Association Annual Meeting, Houston, TX.

- Nov. 1988 Group Discussion Leader, Conference on U.S.-Pacific Rim Relations, International Affairs Program at CU-Denver and the Center for International Studies of the Denver Public School System.
- June 1993 Session Chair, Far-Eastern Meeting of the Econometric Society, Taipei, Taiwan.
- Jan. 1999 Session Chair, The 1999 Annual Convention of ASSA, New York, N.Y.
- Jan. 2000 Session Chair, The 2000 Annual Convention of ASSA/CEANA, Boston, MA.
- Jan. 2000 Discussant, The 2000 Annual Convention of ASSA/CEANA, Boston, MA.
- Feb. 2004 Co-chair, Panel Discussion and Q&A session, at the Symposium on the Taiwanese Economy, sponsored by the North America Taiwanese Professors' Association—SCAL Chapter, Orange County, CA, Feb. 21, 2004.

## 2. Referee for

- 1984 McGraw-Hill Book Co., New York, N.Y.
- 1987 National Science Foundation Grant Proposal (Economics).
- 1987 The JAI Press Inc., Greenwich, CT.
- 1988 The Quarterly Review of Economics and Business.
- 1992 (2) Journal of Development Economics.
- 1993, 1992 The World Bank Economic Review.
- 2004, 1997(2), 96, 95, 93, 85 The Journal of Energy and Development.
- 1994 The Journal of International Trade and Economic Development.
- 1995 Ricerche Economiche.
- 1997 Asian Economic Journal.
- 1999 (2) The Journal of Energy and Development.
- 2001, 2000 Academia Economic Papers, Academia Sinica (Taipei, Taiwan).
- 2001 Asian Economic Journal.
- 2007, 2006, 2005, 2004(2), 03(2), 02 Journal of Asian Economics.
- 2006, 2005 Journal of Comparative Economics

## C. Community

- 1982 Speaker, Colorado Taiwanese Association, on “International Comparison of the Taiwanese Economic Development.”
- 1982 Speaker, Eisenhower Elementary School, Boulder, CO., use Sampling Demonstrator and Random Dice to explain the concepts of percentage and probability in a high-level math class.
- 1985 Speaker, The Friendship Force of Colorado, a talk and slide show on “People, Cultural, and Economic Conditions in Taiwan.”
- 1986 Speaker, Colorado Taiwanese Association, on “Introduction to Stock Market and Investment Strategies.”
- 1987 Speaker, The Third Great Plains Taiwanese Fall Conference, in a “Seminar on Investment.”
- 1997 Speaker, Colorado Taiwanese Association, on “Economic Development of the Asian NICs and ASEAN.”
- 2007 Hosting Committee, Taiwanese-American Heritage Week Celebration, Lakewood Culture Center, Lakewood, CO., May.