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Marital Status: Married, two children

Academic Degrees:

Ph.D., University of Wisconsin, Economics, August 1980.
M.A., University of Wisconsin, Economics, December 1978.
B.S., University of Singapore, Economics (Honors), January 1975.
B.A., University of Singapore, Economics, January 1974.

Employment:

Foreign Exchange Dealer, Monetary Authority of Singapore, April 1975-1976
Lecturer, National University of Singapore, October 1980-June 1981
Assistant Professor, Pennsylvania State University, August 1981-July 1991
Associate Professor, Pennsylvania State University, July 1992- June 2001.
Professor, Pennsylvania State University, July 2001- present.

Honors and Awards:

Merit Scholarship, Singapore Government (1971-73)
Honors Scholarship, Monetary Authority of Singapore (1974-75)
Fullbright-Hayes Fellowship, U.S. Government (1976-80)
Outstanding Undergraduate Instructor, Fall 1997, Economics, PSU.
Outstanding Faculty Award, Interfraternity Council and Panhellenic Council, Fall 1999, PSU.
Outstanding Undergraduate Instructor, Fall 1999, Economics, PSU.
Outstanding Undergraduate Instructor, Spring 1999, Economics, PSU.
Outstanding Undergraduate Instructor, Spring 2000, Economics, PSU.
Outstanding Undergraduate Instructor, Fall 2001, Economics, PSU.
Outstanding Undergraduate Instructor, Fall 2002, Economics, PSU.
College of Liberal Arts, Outstanding Teacher Award, Spring 2002, PSU.
Outstanding Undergraduate Instructor, Spring 2004, Economics, PSU.
Schreyer Honors College, Excellence in Honors Teaching, Fall 2005, PSU.

Professional Activities:

Editorial Council, Review of International Economics, 1992-1996.
Consultant, World Bank, 1984-87, 1992-96, 1998-2001, 2003-2006.

Refereeing:

Canadian Journal of Economics, Economic Development and Cultural Change, Economic Inquiry, Economic Journal, International Economic Review, Journal of International Economics, International Journal of Industrial Organization, Journal of Development Economics, Journal of Development Studies, Journal of Economic Studies, Journal of Industry, Competition and Trade, Journal of Policy Reform, Journal of Political Economy, Review of Economics and Statistics, Review of International Economics, National Science Foundation, Sloan Management Review, Small Business Economics, Studies of Comparative International Development, World Bank Economic Review.

Publications:

Contributions to Books

- "Price and Quality Level Comparisons for U. S. Footwear: An Application of Multilateral Index Numbers," with Mark J. Roberts. In Empirical Methods for International Trade, Robert Feenstra (ed.), MIT Press, (1988).
- "The Effect of Voluntary Export Restraints on NIE Exports and NIE Pricing Behaviour." In U. S. Foreign Policy Towards the Newly Industrializing Economies, George Yu (ed.), University of Illinois, Urbana-Champaign, (1990), pp. 94-110.
- "Singapore." In Liberalizing Foreign Trade: The Experience of Korea, Philippines, and Singapore, Volume II, D. Papageorgiou, M. Michaely, and A. Choksi (eds.), Basil Blackwell, (1991).
- "Estimating the Effect of Quantitative Restrictions in Imperfectly Competitive Markets." In Empirical Studies of Commercial Policy, Robert Baldwin (ed.), University of Chicago Press, (1991).
- "Wages, Firm Size and Wage Inequality: How Much Do Exports Matter?" with Geeta Batra. In Innovation, Industry Evolution and Employment, D.B. Audretsch and R. Thurik (eds.), Cambridge University Press, (1999).
- "Technology Acquisition and Total Factor Productivity Growth: Evidence from Firm Level Data," in The Economics of Industrial Structure and Innovation Dynamics, Anthony Barizokas (ed.), forthcoming.
- "Productivity Dynamics of SMEs in Taiwan, in Small Firm Dynamism in East Asia. Farrukh Iqbal and Shujiro Urata (eds.), Kluwer Academic Publishers, 2002. Also in *Small Business Economic Journal*, 18, 2002, pp. 69-84.

"Technology Acquisition and Development in Taiwan," in Competitiveness, Foreign Direct Investment and Technological Activity in East Asia, Sanjaya Lall and Shujiro Urata (eds.), Cheltenham: Edward Elgar, (2003).

"Firm-Level Productivity and Foreign Direct Investments in Taiwan," in Multinationals and Economic Growth in East Asia, S. Urata, Chia Siow Yue and Fukunari Kimura(eds.), Roulledge, 2006.

Contributions to Periodicals

"An Empirical Test of the Heckscher-Ohlin Theorem Using ASEAN Data." Malayan Economic Review (Singapore), Vol. XXVI:1, (Apr. 1981), pp. 25-38.

"The Short Run Employment Impact of ASEAN-US Trade." Malayan Economic Review (Singapore), Vol. XXVI:2, (Oct. 1982), pp. 80-91.

"The Interpretation of Cross-Section Regression Tests of the Heckscher-Ohlin Theorem with Many Goods and Factors." Journal of International Economics, 14, (Feb. 1983), pp. 163-167.

"Trade Imbalance and the Leontief Paradox." Weltwirtschaftliches Archiv., Band 119, Heft 4, (1983), pp. 734-738.

"The Role of Imports from the Newly Industrializing Countries in U. S. Production," with Mark J. Roberts. Review of Economics and Statistics, (Feb. 1985), pp. 108-117.

"Measuring Quality Change in Quota- Constrained Import Markets: The Case of U. S. Footwear," with Mark J. Roberts. Journal of International Economics, 21, (April 1986), pp. 45-60.

"Quality Adjustment under Quotas in a Multiproduct Model with Joint Production," with Amy Hwang. Scandinavian Journal of Economics, 93, (1991), pp. 555-569.

"Targeting Industries for Export Promotion: The Case of Singapore." Journal of Commerce and Industry, II, (1992), pp. 7-20.

"An Empirical Model of Mark-Ups in a Quality Differentiated Export Market." Journal of International Economics, 33, (November 1992), pp. 327-344.

"Price Discrimination and Markups in Export Markets." Journal of Development Economics, 42 (1993), pp. 315-336.

"Productivity and the Export Market: A Firm-level Analysis," with Amy Hwang. Journal of Development Economics, 47 (November 1995), pp. 313-332. Reprinted in Innovation, Evolution of Industry and Economic Growth, David B. Audretsch and Steven Klepper (eds.), Edward Elgar Publishing Inc., forthcoming.

- "Technological Capability and Firm Efficiency," with Geeta Batra. World Bank Economic Review, 12 (January 1998), pp. 59-79.
- "Firm Size and the Pattern of Diversification" with Geeta Batra. International Journal of Industrial Organization, 16 (May 1998), pp. 313-331.
- "Technology, Exports and Firm Efficiency in Taiwanese Efficiency," Economics of Innovation and New Technology, 5 (1998). with Geeta Batra. Reprinted in Technology, Science and Economic Growth, P. A. David and P. Stoneman (eds.), National Academy Press, forthcoming.
- "Productivity and Turnover Patterns in the Export Market: Firm-Level Evidence from Taiwan and South Korea," with Sukkyun Chung and Mark J. Roberts. World Bank Economic Review, 14 (January 2000).
- "Firm Heterogeneity and Export-Domestic Price Differentials: A Study of Taiwanese Electronics Products," with Geeta Batra and Mark J. Roberts. Journal of International Economics, 54, 2001, pp.149-169.
- "Firm-Level Evidence on Productivity Differentials and Turnover in Taiwanese Manufacturing," with Xiaomin Chen and Mark J. Roberts. Journal of Development Economics, 66, 2001, pp. 51-86.
- "Productivity Dynamics of SMEs in Taiwan." *Small Business Economics*, 2002, 18, pp. 69-84.
- "Accumulating Technology and Location Spillovers Among Firms in Taiwan's Electronics Industry," Journal of Development Studies, 39, 2002, pp. 94-117.
- "Productivity, Output, and Failure: A Comparison of Taiwanese and South Korean Manufacturers." with Sukkyun Chung and Mark J. Roberts. NBER Working Paper #8766, November 2001. Economic Journal, 113, 2003, pp. 485-510.
- "Export Market Participation, Investments in R&D and Worker-Training, and the Evolution of Firm Productivity," with Mark J. Roberts and Tor Winston. World Economy, 2007.

Conference Proceedings

- Comments on "The Organization of the Taiwanese and South Korean Economies: A Comparative Analysis" by R. Feenstra and Gary Hamilton in The Economic Implications of Liberalizing APEC Tariff and Nontariff Barriers to Trade, Publication #3101 (April 1998), Washington, DC: U.S. International Trade Commission.

Book Review

- The Future of World Trade in Textiles and Apparel. By William R. Cline. Washington, D.C; Institute for International Economics, 1987. In Journal of Economic Literature, 17 (Mar. 1989).

Current Working Papers

“Firm Heterogeneity and the Location Choice of Taiwanese Multinationals,” with Yi Lee.

“Multiproduct Plants in the Taiwanese Electronics Sector,” with Yi Lee.

Ph.D. Dissertations Supervised:

<u>Date</u>	<u>Name</u>	<u>Initial Placement</u>
1987-90	Amy Hwang	Academic Sinica, Taiwan
1992-94	Geeta Batra	The World Bank
1994-96	Xiaomin Chen	The World Bank
1996-98	Sukkyun Chung	Ministry of Finance, South Korea
1998-2001	Tor Winston	Justice Department
2002-2005	Backhoon Song	Korea Institute of International Economic Policy
2004-2007	Yi Lee	unknown

Research Grants:

"Domestic Market Structure Effects and Taiwan's Exports of High Quality Goods."
National Science Council, Taiwan. July 1991 - June 1992.

"Domestic Market Structure Effects and Taiwan's Transition to Skilled-labor and Technology Intensive Exports." National Science Council, Taiwan. July 1992 - May 1993.

"Market Structure and Taiwan's Transition to High Quality Exports." World Bank. September 1992 - June 1993

"Training, Technological Capacity, and Firm-level Productivity Growth." (with Hong Tan).
World Bank. February 1993 - June 1993.

"Research and Development, Training and Productivity: A Firm-level Analysis." The National Science Foundation. September 1993 - December 1995

"Training, Technological Capability, and Firm-level Productivity." (with Hong Tan) World Bank. June 1993 - March 1994.

“Investments in Technological Capacity and Productivity Growth of Firms: A Panel Analysis.”
World Bank. September-December 1999.

“Productivity Dynamics of Small and Medium Enterprises in Taiwan.” World Bank. 1998 – 1999.

“Job Reallocation, the Export Market and Firm Performance: Microeconomic Evidence.” (with Geeta Batra). World Bank. January - December 1999.

“Micro Foundations of International Technology Diffusion.” (with Mark J. Roberts and James

Tybout). World Bank. 1999 - 2001.

“Technology Acquisition and Development in Taiwan.” World Bank, January 2000 – June 2001.

“The Diffusion of Technology Among Firms in Developing Countries:
The Roles of Foreign Contacts, Firm Capability, Physical Proximity and
Professional Associations.” (with Geeta Batra and Mark J. Roberts). World Bank. June
2003 – June 2004.

“Productivity and Investment Climate in Central America.” (with Geeta Batra). Singapore Trust
Fund, World Bank. March 2004- November 2004.