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Personal

Born: October 18 1960, Malaysia
Married: 1999, Chorching Goh
Children: son Yimfoong aged 7; daughters Wengfay and Wengyin, aged 4 and 2
Resident Alien in U.S.

Education

Ph.D. Economics, Harvard University, 1989
A.B. Mathematics, Northwestern University, 1983

Research and Teaching Interests

Public and Environmental Economics
Economic Growth and Technical Change

Work Experience

1993-present, Senior Economist, Dale Jorgenson Associates.
1999-present, Visiting Scholar, Resources For the Future.
2006-present, Visiting Scholar, Institute for Quantitative Social Science,
Harvard University
1992-2005. Fellow, Program on Technology and Economic Policy,
Kennedy School of Government, Harvard University.
1989-92. Assistant Professor, Economics, SUNY at Buffalo.

Papers in Journals

“Environmental Policy and China's 11th Five-Year Plan: Benefits and Costs of SO₂ Abatement,” forthcoming in *Review of Environmental Economics and Policy*.
(with Jing Cao and Richard Garbaccio)

“The Local and Global Benefits of Green Tax Policies in China,”
forthcoming in *Review of Environmental Economics and Policy*.
(with Jing Cao and Dale Jorgenson)

“Industrial and Aggregate Measures of Productivity Growth in China, 1982-2000”,
forthcoming in *The Review of Income and Wealth*,
(with Jing Cao, D. Jorgenson, Ruoen Ren, Linlin Sun, Ximing Yue).

“U.S. Labor Supply and Demand in the Long Run,”
in *Journal of Policy Modeling*, 30(4):603-618, July 2008.
(with D. Jorgenson, Richard Goettle, Daniel Slesnick, Peter Wilcoxon)

“A Retrospective Look at the U.S. Productivity Growth Resurgence,”
Journal of Economic Perspectives, 22(1):2-24, Winter 2008.
(with D. Jorgenson and Kevin Stiroh)

“The Industry Origins of the American Productivity Resurgence”
Economic System Research, 19(3):229-252, September, 2007.
(with D. Jorgenson, Jon Samuels and K. Stiroh).

"How Do Market Reforms Affect China's Responsiveness to Environmental Policy?"
Journal of Development Economics, 82(1):200-233, January, 2007.
(with Karen Fisher-Vanden)

"Intake fractions of industrial air pollutants in China: Estimation and application"
Science of The Total Environment. 354:127-141, 2006.
(with Shuxiao Wang, Jiming Hao, Ji Li and Yongqi Lu)

“Potential Growth of the U.S. Economy: Will the Productivity Resurgence Continue?”
Business Economics, January, 67-76, 2006.
(with D. Jorgenson and Kevin Stiroh)

“Will the U.S. Productivity Resurgence Continue?” in *Current Issues in Economics and Finance*, Federal Reserve Bank of New York, Vol 10, No. 13, December 2004.
(with D. Jorgenson and K. Stiroh)

“International Labor Migration and Social Security: Analysis of the Transition Path”
Journal of Population Economics, 17(3):535-551, 2004.
(with Doris Geide-Stevenson)

"The Near-Term Impacts of Carbon Mitigation Policies on Manufacturing Industries"
(with R. Morgenstern, J. Shih, X. Zhang)
Energy Policy, 32:1825-1841, 2004.
(previously as RFF Disc. Paper 02-06, March 2002)

"Growth of U.S. Industries and Investments in Information Technology and Higher Education,"
(with D. Jorgenson and K. Stiroh)
Economic Systems Research, 15(3) : 279-325, September 2003.

"Lessons for Europe from the U.S. Growth Resurgence"
(with D. Jorgenson and K. Stiroh)
in *CESifo Economic Studies*, 49(1):27-47, 2003.

"Lessons from the U.S. Growth Resurgence"
(with D. Jorgenson and K. Stiroh)
in *Journal of Policy Modeling*, 25(5):453-470, 2003.

"Projecting Productivity Growth: Lessons from the U.S. Growth Resurgence"
in *Economic Review*, Federal Reserve Bank of Atlanta, Q3:1-13 2002.
And in *Technology, Growth and the Labor Market*, eds. Donna K Ginther and Madeline Zavodny, Kluwer, 2003.
(with D. Jorgenson and K. Stiroh)

"A Comparison of Industrial Productivity Growth in Canada and the U.S."
(with Wulong Gu)
American Economic Review 90(2): 172-175, 2000.

"Why has the energy output ratio fallen in China?"
(with Richard Garbaccio and Dale Jorgenson)
Energy Journal, July 1999, 20(3): 63-91

"Controlling Carbon Emissions in China"
(with Richard Garbaccio and Dale Jorgenson)
Environment and Development Economics, 4(4): 493-518, 1999

"Revenue, Progressivity and the Flat Tax"
(with Kevin Stiroh)
Contemporary Economic Policy, 16(1): 85-97, 1998

"Finding Cointegration Rank in High Dimensional Systems Using the Johansen Test. An Illustration Using Data Based Monte Carlo Simulation"
(with Bent Sorensen)
Review of Economics and Statistics, 78(4): 726-732, 1996

"Sunspots, Asset Substitution in Foreign Currency, and Public Deficits"

(with Richard Barnett)

Journal of International Economics, 41(2): 73-93, 1996.

"A Continuous Time Arbitrage Pricing Model with Stochastic Volatility and Jumps,"

(with William Perraudin and Bent Sorensen)

Journal of Business and Economic Statistics, 14(1): 31-43, 1996.

"Trade Policies and U.S. Economic Growth,"

(with Dale Jorgenson)

Journal of Policy Modelling 16(22):119-146, 1994

Books

Clearing the Air: The Health and Economic Damages of Air Pollution in China, MIT Press, Cambridge, MA, 2007.

(contributor and co-editor with Chris P. Nielsen)

Information Technology and the American Growth Resurgence, MIT Press, Cambridge, MA, 2005.

(with Dale Jorgenson and Kevin Stiroh)

Papers in books and others

"Impact of Carbon Price Policies on U.S. Industries," *Resources for the Future Discussion Paper*, 08-37, December 2008.

(with Richard Morgenstern and Jhih-Shyang Shih)

"Greening China: Market-based policies for air-pollution control," *Harvard Magazine*. 111(1), September 2008.

(with Dale Jorgenson)

The Economic Costs of a Market-based Climate Policy,

Pew Center on Global Climate Change White Paper, April 2008.

(with Dale Jorgenson, Richard J. Goettle, Peter J. Wilcoxon, Hui Jin, Patrick Schoennagel)

"The Sources of Growth of U.S. Industries" in Jorgenson, Kuroda, Motohashi (eds.) *Productivity in Asia. Economic Growth and Competitiveness*, Edward Elgar, 2007.

(with Dale Jorgenson and K. Stiroh)

"Growth of U.S. Industries and Investments in Information Technology and Higher Education," in Carol Corrado, John Haltiwanger, Daniel Sichel (eds.) *Measuring Capital*

in the New Economy, National Bureau of Economic Research, The University of Chicago Press, Chicago, 2005.

(with D. Jorgenson and K. Stiroh)

“Measuring the Contribution of ICTs to Economic Growth in Canadian and U.S. Industries,” presented at Social Sciences and Humanities Research Council of Canada (SSHRC) *Conference on Index Number Theory and the Measurement of Prices and Productivity*, Vancouver 2004.

(with Someshwar Rao and Jianmin Tang)

“Lessons for Canada from the U.S. Growth Resurgence”
in *International Productivity Monitor*, 6:3-18, Spring 2003.

(with D. Jorgenson and K. Stiroh)

"The Health Benefits and Costs of Controlling Air Pollution in China"
in Warford and Li (eds.) *Economics of the Environment in China*, China Council for International Cooperation on Environment and Development, 2002.

(with D. Jorgenson and Wenhua Di)

"A Comparison of Industrial Productivity Growth in Canada and the United States",
in *Industry-level Productivity and International Competitiveness Between Canada and the United States*, eds. Dale W. Jorgenson and Frank C. Lee, Industry Canada Research Monograph, 2001.

And in *Productivity Issues in Canada*, eds. Someshwar Rao and Andrew Sharpe,
University of Calgary Press, 2002.

(with Wulong Gu)

The role of substitution in understanding the costs of climate change policy,
report to Pew Center on Global Climate Change, September 2000.

(with Dale Jorgenson, Richard J. Goettle, Peter J. Wilcoxon)

“The Health Benefits of Controlling Carbon Emissions in China”
in OECD, *Proceedings of Workshop on Assessing the Ancillary Benefits and Costs of Greenhouse Gas Mitigation Strategies*, Washington, March 2000.

(with Richard Garbaccio and Dale Jorgenson)

“Education Policies to Stimulate Growth”
in *Using Dynamic General Equilibrium Models for Policy Analysis*, Contributions to Economic Analysis, 248, North-Holland, ed. Glenn W. Harrison, Svend E.H. Jensen, Lars H. Pedersen, Thomas F. Rutherford, 2000.

(with Dale Jorgenson)

"Stabilization of Carbon Emissions and International Competitiveness of U.S. Industries"
in *Growth Vol.2*, Jorgenson, MIT Press 1998.

(with Dale Jorgenson)

"Environmental Regulation and U.S. Trade"
in *Growth Vol.2*, Jorgenson, MIT Press 1998.
(with Dale Jorgenson)

"Modeling Trade Policies and U.S. Growth: Some methodological issues"
(with Dale Jorgenson 1998)
in *The Economic Implications of Liberalizing APEC Tariff and Nontariff Barriers to Trade*, U.S. International Trade Commission Publication 3101, April 1998.

"China's Economic Growth and Carbon Emissions"
(with Dale Jorgenson and Dwight Perkins)
in *Energizing China: Reconciling Environmental Protection and Economic Growth*
Harvard University Press, 1998.

Selected Presentations

Testimony before the US-China Economic and Security Commission, June 14, 2007.
China's Energy Consumption and Opportunities for US-China Cooperation to Address the Effects of China's Energy Use, http://www.uscc.gov/hearings/2007hearings/written_testimonies/07_06_14_15wrts/07_06_14_ho_statement.php

UNFCCC, COP 9, Milan, Dec 5, 2003. Side event by Harvard Center for the Environment and U.S. EPA, "*Reconciling China's Economic Development with Global and Local Environmental Protection*".

Ph.D. Thesis (1989)

The Effects of External Linkages on U.S. Economic Growth: A Dynamic General Equilibrium Analysis.
Committee: Dale Jorgenson (chair), Shantayanan Devarajan, Lawrence Goulder

Completed Papers

IGEHM: Inter-temporal General Equilibrium Model for Health Expenditures, report to Centers for Medicare and Medicaid.
(with Dale Jorgenson, Daniel Slesnick and Peter Wilcoxon, June 2008)

"What Will a Science and Technology Takeoff in China Mean for Energy Use and Carbon Emissions"
(with Karen Fisher-Vanden 2008).

"The Local and Global Benefits of Pollution Control in China: An Integrated Analysis of Market-Based Policies"

(with Jing Cao, 2006).

"The Embodiment Controversy: You can't have two prices in a one-sector model"
(with Kevin Stiroh, 2006)

"Energy and U.S. Economic Growth in the next Thirty Years: The Role of Information Technology and Technical Change"
(with D. Jorgenson and Peter Wilcoxon, September 2004).

"Productivity Growth in China, 1981-95"
(with D. Jorgenson, September 2001)

"Inflation, Growth and Parallel Offshore Accounts"
(with Richard Barnett, May 2001)

Work in Progress

"An Intertemporal General Equilibrium Model of U.S. Growth and the Environment,"
(with Richard Goettle, Dale Jorgenson, Daniel Slesnick and Peter Wilcoxon)

"Productivity comparisons between the European Union and US"

"U.S. Industry Productivity based on NAICS"