

Short Resume of
Subhash C. Ray

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Citizenship: U.S.

Education:

<u>Degree</u>	<u>Date</u>	<u>Institution</u>
Ph.D.(Economics)	1981	U. of California, Santa Barbara
Fellow in Management (equivalent to Ph.D.)	1976	Indian Institute of Management, Calcutta
MA (Economics)	1964	U. of Calcutta

Professional Experience:

1992 - : Professor of Economics, University of Connecticut, Storrs, CT.
1987-92: Associate Professor, Department of Economics, University of Connecticut, Storrs, CT.
1982-87 : Assistant Professor, Department of Economics, University of Connecticut, Storrs, CT.
1981-82 : Visiting Lecturer, Department of Economics, University of California, Santa Barbara, CA.
1977-81 : Teaching/ Research Assistant, Department of Economics, U of California,
Santa Barbara, CA.
1976-77 : Faculty member (designated as Senior Training Officer) of the Management
Development Institute of Bharat Heavy Electricals Ltd.
1972-75 : Graduate student in the Fellowship in Management program at Indian Institute of
Management, Calcutta.
1967-72 and 1975-76 : Lecturer in Economics (the Indian equivalent of an Assistant Professor),
University of Kalyani, India.

Visiting Positions:

Jan - Mar 1990: Visiting Scientist, Indian Statistical Institute, Calcutta, India.
Apr - May 1990: Visiting Faculty, Department of Econometrics, University of Sydney, Australia.
Feb - Mar 1997: Visiting Scholar, Dept. of Statistics and Operational Research, University of
Alicante, Spain.
Aug-Sept 2000: Visiting Fulbright Lecturer, Indian Institute of Management, Calcutta, India
Sept-Dec 2000: Visiting Fulbright Lecturer, Indian Institute of Management, Ahmedabad, India
Jan- Apr 2004: Visiting Scientist, Indian Statistical Institute, Calcutta

Fields of Research Specialization:

Applied Econometrics
Applied Micro (production analysis)

Time Series Analysis
Data Envelopment Analysis

Selected Publications:

Data Envelopment Analysis: Theory and Techniques for Economics and Operations Research (Cambridge University Press 2004).

A Simple Statistical Test of Violation of the weak Axiom of Cost Minimization”; forthcoming in *Indian Economic Review*.

(with Evangelia Desli) “A Bootstrap Procedure to Capture Unit Specific Effects in Data Envelopment Analysis”; *Indian Economic Review* (forthcoming).

(with Kankana Mukherjee) “Does the Presence of Surplus Labor Hinder Production in Indian Manufacturing?” forthcoming in - Sugata Marjit and Nirmala Banerjee eds. *Development, Displacement, and Disparity – India in the Last Quarter of the Century*, Orient Longman.

(with Anasua Bhattacharya) “Surplus Labor in Indian Manufacturing: Evidence From the Annual Survey of Industries”; forthcoming in an edited volume published by MacMillan.

(with T.T. Ram Mohan) “Comparing Performance of Public and Private Sector Banks”: A Revenue Maximisation Efficiency Approach”; *Economic and Political Weekly*, March 20, 2004; 1271-1276.

(with Evangelia Desli and Subal Kumbhakar) .“Dynamic Stochastic Frontier Analysis” *Applied Economics Letters*; 2003; 10, 623-626.

(with Zhang Ping) "Technical Efficiency of the State Owned Enterprises in China (1980-1989): An Assessment of the Economic Reforms."

Accepted for publication in a volume on studies in productivity measurement being edited by Professor S. Tendulkar of Delhi School of Economics.

“Did India’s Economic Reforms Improve Productivity and Efficiency in Manufacturing?” *Indian Economic Review*; Vol 37, No 1; 2002, 23-57.

“William W. Cooper: A Legend in His own Times”; *Journal of Productivity Analysis*, 17, 1-2, 2002, pp 7-12.

(with Kankana Mukherjee and Steve M. Miller) “Productivity Growth in Large U.S. Commercial Banks: The Initial Post-Deregulation Experience”; *Journal of Banking and Finance*, 25 (2001), pp913-939.

(with Kankana Mukherjee) “Decomposition of Cost-Competitiveness in U.S. Manufacturing: Some State-by-State Comparisons”; *Indian Economic Review*, Vol 35, No 2, 2000, pp 133-153.

"Measuring Scale Efficiency From a Translog Production Function", *Journal of Productivity Analysis*, vol 11, 1998, pp 183-194.

(with Kankana Mukherjee) "A Study of Size Efficiency in U.S. Banking: Identifying Banks that are too Large"; *International Journal of Systems Science* (1998), vol. 29, no. 11, pp 1281-1294.

(with Kankana Mukherjee) "Quantity, Quality, and Efficiency from a Partially Super-additive Cost Function: Connecticut Public Schools Revisited", *Journal of Productivity Analysis*, 10, 47-62, July 1998.

(with Evangelia Desli) "Productivity Growth, Technical Progress, and Efficiency Change in Industrialized Countries: Comment", *American Economic Review*, Vol 87, No. 5, Dec. 1997 pp 1033- 1039.

"A Weak Axiom of Cost Dominance: Nonparametric Measurement of Cost Efficiency Without Input Quantity Data"; *Journal of Productivity Analysis*, 8, 151-165, May 1997.

"Regional Variation in Productivity Growth in Indian Manufacturing: A Nonparametric Analysis", *Journal of Quantitative Economics*, 13, No, 1, 73-94, January 1997.

(with Xiaowen Hu) "On the Technically Efficient Organization of an Industry: A Study of U.S. Airlines", *Journal of Productivity Analysis*, 8, pp 5-18, March 1997.

(with Kankana Mukherjee) "Decomposition of the Fisher Ideal Index of Productivity: A Nonparametric Dual Analysis of U.S. Airlines Data" *The Economic Journal*, Vol.106, N0. 439, pp 1659-1678, Nov. 1996.

(with Kankana Mukherjee)"Comparing Parametric and Nonparametric Estimates of Efficiency: A Reexamination of the Christensen-Greene Data"; *Journal of Quantitative Economics*, 1995 pp 155-168.

(with H-J Kim) "Cost Efficiency in the U.S. Steel Industry: A Nonparametric Analysis Using D.E.A. ; *European Journal of Operational Research*, Vol. 80, 3, 1995, pp 654-671.

(with Dipasis Bhadra) "Non-Parametric Tests of Cost-Minimizing Behavior: A Study of Indian Farms" ; *American Journal of Agricultural Economics*, Vol 73, November 1993, pp 990-999.

"Resource-Use Efficiency in Public Schools: A Study of Connecticut Data"; *Management Science* Vol 37, No. 12, Dec 1991, pp 1620-1628.

(with A. Noulas and S.M. Miller) "Returns to Scale and input substitution for Large U.S. Banks" *Journal of Money, Credit, and Banking*; 1990, pp 94-108 .

(with Kathleen Segerson) "A Profit Function Approach to Measuring the Rate of Technical Progress: An Application to U.S. Manufacturing"; *Journal of Productivity Analysis*, Vol 2, Dec 1990, 39-52.

"Methods of Estimating the Input Coefficients for Linear Programming Models"; *American Journal of Agricultural Economics* 1985 pp 155-160.

"Measurement and Test of Efficiency of Farms in Linear Programming Models: A Study of West Bengal Farms"; *Oxford Bulletin of Economics and Statistics* 1985 pp 371-385.

"A Translog Cost Function Analysis of U.S. Agriculture 1939-77"; *American Journal of Agricultural Economics*, 1982; pp 490-498.

Working Papers:

(with Yongil Jeon) "Reputation and Efficiency: A Nonparametric Assessment of America's Top-Rated MBA Programs"; April 2003.

"Nonparametric Measures of Capacity Utilization: A Dual Approach"; Dec 2002.

(with Rashmi Banga) "The Impact of the Structure of Debt on Technical Efficiency: A Study of the Automotive

Industry in India”; May 2003.

(with Anasua Bhattacharya) “Surplus Labor in Indian Manufacturing: Evidence From the Annual Survey of Industries”; May 2003.

(with Evangelia Desli) “A Bootstrap Procedure to Capture Unit Specific Effects in Data Envelopment Analysis”, May 2003.

Journal Editorship:

Served as a guest editor of a special issue of *Journal of Productivity Analysis* in 2002.

Courses Taught:

Graduate:

Econometric Methods (for Ph.D. and MA students)
Time Series Analysis (for Ph.D. students in Econ, Business, and Stat)
Microeconomics (for Ph.D. students)
Duality in Production - theory and econometrics
(for Ph. D students)
Data Envelopment Analysis (for Ph.D. students)

Undergraduate

Microeconomic theory
Mathematical Economics
Econometrics

Major Conference Presentations:

World Econometric Congress, Barcelona (1990)
American Statistical Association, Houston (1980), Chicago(1985), New Orleans (1988)
International Regional Science Association, Boston (1990)
European Congress on Operational Research, Aachen, Germany (1991),
Helsinki, Finland (1992)
European Productivity Workshop, CORE, Belgium (1993)
Georgia Productivity Workshop, Athens, GA, (1994)
European Productivity Workshop, CORE, Belgium (1995)
Georgia Productivity Workshop II, Athens, GA, (1996)
Fifth European Productivity Workshop, Copenhagen, Denmark (1997)
Georgia Productivity Workshop III, Athens, GA, (1998)
6th European Workshop on Productivity and Efficiency Analysis, Copenhagen, Denmark (1999)
North American Productivity Workshop, Union College, Schenectady, NY (2000)
Econometrics Conference 2000, Delhi School of Economics, New Delhi, India, (2000)
7th European Workshop on Productivity and Efficiency Analysis, Oviedo, Spain (2001)
North American Productivity Workshop II, Union College, NY 2002.
National Workshop on Technical Efficiency and Productivity Analysis, New Delhi, India Jan 2003.

Referees:

Professor Bill Cooper
University of Texas
Austin TX

Professor Knox Lovell
Editor-in-Chief, *Journal of Productivity Analysis*
Department of Economics
University of Georgia
Athens GA

Professor Subal Kumbhakar
Department of Economics
SUNY-Binghamton
Binghamton NY