CURRICULUM VITAE

August 2006

NAME: Phoebus J. Dhrymes

EDUCATION:

University of Texas, 1954-1957, B.A. with Highest Honors (Economics)
Massachusetts Institute of Technology, 1957-61, Ph.D. in Economics with minor in Mathematics and in Sociology.

FELLOWSHIPS:

Woodrow Wilson Fellowship 1957-58
Ford Foundation Doctoral Dissertation Fellowship 1960-61
John Simon Guggenheim Memorial Fellowship 1965-66
Ford Foundation Faculty Research Fellowship 1968-69
NSF/ASA/Census Senior Research Fellowship, 1988-1990
Fellow, Econometric Society
Fellow, American Statistical Association

HONORS:

Honorary *Doctor of Economics and Management Science* University of Cyprus, 2002
Invited ASSET Lecturer, Association of Southern European Economic Theorists, 2002.
Invited Lecture, Magdalinos Memorial Conference, 2003.

POSITIONS HELD:

CURRENT POSITION
Professor of Economics Columbia University, 1973-

OTHER POSITIONS HELD

Visiting Scholar, Institute for Advanced Studies, Vienna, 2005
Visiting Scholar, University of Cyprus, 2005
Professor of Economics, University of California, Los Angeles, 1971-1973
Professor of Economics, University of Pennsylvania, 1967-72

Associate Professor of Economics, University of Pennsylvania, 1964-67
Assistant Professor of Economics, Harvard University, 1962-64
Instructor, Harvard University, 1960-61
Visiting Professor of Economics, Institute for Advanced Studies, Vienna, Austria, Spring 1994, Fall 1996
Visiting Professor of Economics, Monash University, Australia, Summer, 1970

Research Associate:

Senior Research Associate, National Bureau of Economic Research, 1974-
Human Resources Research Center, University of Southern
California, 1971-72
Massachusetts Institute of Technology, Summer 1963, 1964
Cowles Foundation at Yale University, Summer 1961

Other Service:

Scientific Advisory Board, Institute for Advanced Studies, Vienna, 2005-
Scientific Advisory Board, National Institute on Aging, 1982-1989.
Consultant, National Institute on Aging, 1978.
Consultant on Training, International Monetary Fund, 1972-79.
Consultant, the RAND Corporation, 1971-74
Chairman, Program Committee, North American Meeting, Econometric Society, 1974
Board of Editorial Advisors, **Greek Economic Review**, 1979-
Editor, **Econometrics**: Lecture Notes Series, Springer-Verlag, 1975-1993
Co-Editor, **Journal of Econometrics**, 1973-78
Editorial Policy Board, **Journal of Econometrics**, 1991-
Managing Editor and Editor, **International Econometric Review**, 1964-71
Associate Editor, **International Economic Review**, 1971-
Advisory Board, **Econometric Theory**, 2002-
Member, Initial Economics Faculty Selection Committee, University of Cyprus, 1990-1994.

PUBLICATIONS:

BOOKS:

Econometrics: Statistical Foundations and Applications, Harper and Row, New York, 1970.

Distributed Lags: Problems of Formulation and Estimation, Holden-Day, San Francisco, 1971.

Econometrics: Statistical Foundations and Applications, (corrected edition) Springer-Verlag, New York, 1974.

Introductory Econometrics, Springer-Verlag, New York, 1978.

Mathematics for Econometrics, Springer-Verlag, New York, 1978.

Impact of an Overvalued Currency on Domestic Income, Employment and Prices, Monograph 34, Center of Planning and Economic Research, Athens, 1978.

Distributed Lags: Problems of Formulation and Estimation, (second edition), North Holland, Amsterdam, 1982.

Distributed Lags: Problems of Formulation and Estimation, (Russian edition), Academy of Sciences of Soviet Union, Moscow (1984).

Mathematics for Econometrics, (second edition), Springer-Verlag, New York, 1984.

Topics in Advanced Econometrics: Vol. I Probability Foundations, Springer Verlag, New York, 1989.

Topics in Advanced Econometrics: Vol. II, Linear and Nonlinear Simultaneous Equations, Springer-Verlag, New York 1994.

Theoretical and Applied Econometrics: The Selected Papers of Phoebus J. Dhrymes, in the series **Economists of the Twentieth Century**, Edward Elgar, Aldershot, U.K, Brookfield, US, 1995.

Time Series, Unit Roots and Cointegration, Academic Press, 1998.

Mathematics for Econometrics, (third edition), Springer-Verlag, New York, 2000.

PAPERS:

"On the Economic and Sociological Consequences of Debt Bondage and Detribalization in Ancient Greece", **Economic Development and Cultural Change**, vol. 6, 1958, pp.88-108. (jointly with M. E. Polakoff).

"On Devising Unbiased Estimators for the Parameters of a Cobb-Douglas Production Function", **Econometrica**, vol. 30, 1962, pp. 297-304.

"Optimal Advertising, Capital and Research Policies under Dynamic Demand Conditions", **Economica**, NS vol. 29, 1962, pp. 275-79.

"A Comparison of Productivity Behavior in the Manufacturing and Service Industries, U.S. 1947-58", **Review of Economics and Statistics**, vol. 45, 1963, pp. 64-69.

"Divided Policies of Electric Utilities", **Review of Economics and Statistics**, vol. 46, 1964, pp. 76-81. (jointly with M. Kurz).

"Technology and Scale in Electricity Generation", **Econometrica**, vol. 32, 1964, pp. 287-315. (jointly with M. Kurz).

"On the Theory of the Monopolistic Multiproduct Firm Under Uncertainty", **International Economic Review**, vol. 5, 1964 pp. 239-257.

"Some Extensions and Tests of the CES Class of Production Functions", **Review of Economics and Statistics**, vol. 47, 1965, pp. 357-366.

"On the Treatment of Certain Recurrent Nonlinearities in Regression Analysis", **Southern Economic Journal**, vol. 33, 1966, pp. 187-196.

"Investment, Dividend and External Finance Behavior of Firms", in **Determinants of Investment Behavior**, National Bureau of Economic Research, New York: Columbia University Press, 1967, pp. 427-467. (jointly with M. Kurz).

"Adjustment Dynamics and the Estimation of the CES Class of Production Functions", **International Economic Review**, vol. 8, 1967, pp. 209-217.

"On a Class of Utility and Production Functions Yielding Everywhere Differentiable Demand Functions", **Review of Economic Studies**, vol 34, 1967 pp. 399-408.

"On the Measurement of Price and Quality Changes in Some Consumer Capital Goods: Preliminary Results", **American Economic Review**, vol. 57, 1967, pp. 501-528.

"A Comment on CES Production Functions", **Review of Economics and Statistics**, vol. 49, 1967' pp. 610-611.

"Efficient Estimation of Distributed Lags with Autocorrelated Error Terms", in **International Economic Review**, vol. 10, 1969, pp. 47-67.

"An Identity Between Double k-class and 2SLS Estimators", **International Economic Review**, vol. 10, 1969, pp. 114-117.

"Alternative Asymptotic Tests of Significance and Related Aspects of 2SLS and 3SLS Estimated Parameters", **Review of Economic Studies**, vol. 36, 1969, pp. 213-226.

"A Model of Short Run Labor Adjustment", Chapter 5 in **The Brookings Model: Some Further Results**, J. S. Duesenberry, *et. al.*, (eds.), Rand McNally, 1969, pp. 110-149.

"Estimation of Joint Production Functions", **Econometrica**, vol. 37, 1969, pp. 732-736. (jointly with B. Mitchell).

"The Savings and Loan Industry: A Survey", in **Proceedings of the 1969 Conference of Savings and Residential Financing**, Chicago, (jointly with P. J. Taubman).

"An Empirical Analysis of the Savings and Loan Industry", (jointly with P. J. Taubman) in **Study of the Savings and Loan Industry**, published by the Federal Home Loan Bank Board, Washington, D. C., 1969.

"Estimation of Distributed Lags", (jointly with L. R. Klein and K. A. Steiglitz), **International Economic Review**, vol. 11, 1970, pp. 235-250.

"On the Game of Maximizing $\overline{R}^2$", **Australian Economic Papers**, vol. 14, 1970, pp. 117-185.

"Elasticities of Substitution for Two Digit Industries: A Correction", **Review of Economics and Statistics**, vol. 52, 1970, pp. 115-117. (jointly with P. Zarembka).

"Price and Quality in Consumer Capital Goods: An Empirical Study", in Z. Griliches (ed.) **Price Indexes and Quality Change**, Harvard University Press, Cambridge, Mass. 1971, pp. 89-149.

"On the Strong Consistency of Estimators for Certain Distributed Lag Models with Autocorrelated Errors", **International Economic Review**, vol. 12, 1971, pp. 329-343.

"Equivalence of Aitken and Maximum Likelihood Estimators for a System of Regression Equations", **Australian Economic Papers**, vol. 15, 1971, pp. 20-24.

"A Simplified Structural Estimator for Large Scale Econometric Models", **Australian Journal of Statistics**, vol. vol 13, 1971, pp. 168-175.

“Simultaneous Equations Inference in Econometrics”, **IEEE Transaction on Automatic Control**, vol. AC-17, 1972, pp. 427-438.

“Asymptotic Properties of Simultaneous Least Squares Estimators”, **International Economic Review**, vol. 13, 1972, pp. 201-211.

“Spectral Analysis in Econometrics”, in A. V. Balakrishnan (ed.) **Techniques of Optimization**, Academic Press, New York, 1972.

“Asymptotic Properties of an Iterate of the Two Stage Least Squares Estimator”, **Journal of the American Statistical Association**, vol. 67, 1972, pp. 444-447. (jointly with V. Pandit).

“Criteria for Evaluation of Econometric Models”, **Annals of Economic and Social Measurement**, vol. 1, 1972, pp. 291-324. (jointly with others).

“Restricted and Unrestricted Reduced Forms: Asymptotic Distribution and Relative Efficiency”, **Econometrica**, vol. 41, 1973, pp. 119-134.

“Small Sample and Asymptotic Relations between Maximum Likelihood and Three Stage Least Squares Estimators”, **Econometrica**, vol. 41, 1973, pp. 357-364.

“A Simple Proof of the Asymptotic Efficiency of 3SLS Relative to 2SLS Estimators”, **Western Economic Journal**, vol. 11, 1973, pp. 187-190.

“Full Information Estimation of Dynamic Simultaneous Equations Models with Autoregressive Errors”, in B. Srivastava (ed.), **Proceedings of the All India Conference on Demography and Statistics**, 1973.

“Distributed Lags: A Survey”, (in Russian), **Mathematical Economics**, 1973.

“A Comparison of Some Limited Information Estimators in Dynamic Simultaneous Equations Models with Autocorrelated Errors”, (jointly with R. Berner and D. Cummins), **Econometrica**, vol. 42, 1974, pp. 311-332.

“Asymptotic Properties of Full Information Estimators in Dynamic Autoregressive Simultaneous Equations Models”, (jointly with H. Erlat), **Journal of Econometrics**, vol. 2, 1974, pp. 247-259.

“A Note on an Efficient Two Step Estimator”, **Journal of Econometrics**, vol. 2, 1974, pp. 301-304.

“On an Efficient Two Step Estimator for Dynamic Simultaneous Equations Models with Autoregressive Errors”, **International Economic Review**, vol. 17, 1976, pp. 362-376. (jointly with John B. Taylor).

“Econometric Models”, in **Encyclopedia of Computer Science and Technology**, J. Reizer, A. G. Holzman, and A. Kent, eds., pp. 22-52, Marcel Dekker, Inc., New York, 1977.

"Some Aspects of the Estimation of Large Scale Econometric Models", in S. Shulman (Ad. Ed.), **Mathematical Models in Economics, Papers and Proceedings of a US-USSR Seminar, Moscow 1976**, NBER, 1978.

"On the Estimation of the Polynomial Lag Hypothesis", **Greek Economic Review**, Vol. 3, 1981, pp. 18-24.

"An Analysis of the Predictive Accuracy of Econometric Models: The Case of the WEFA Models", in **Economic Activity and Finance** Blume, M. E., J. Crockett and P. Taubman (eds.) Ballinger, Cambridge, Mass., 1982, pp. 205-242.

"The Asymptotic Relative Inefficiency of Partially Restricted Reduced Forms", in Adams, F. G. and B. Hickman (eds.), **Global Econometrics**, MIT Press, Cambridge, Mass., 1983, pp. 125-139.

"A Critical Reexamination of the Empirical Evidence on the APT Model", invited paper presented at the Ninth Annual Meeting of the European Finance Association, Jerusalem, September 1982. Published in **Journal of Finance**, vol. 39, 1984, pp. 323-346. (jointly with I. Friend and B. N. Gultekin).

"On the Empirical Relevance of Arbitrage Pricing Theory", **Journal of Portfolio Management**, vol. 10, 1984, pp. 35-44.

"An Empirical Examination of the Implications of Arbitrage Pricing Theory", invited paper presented at the Institute of Quantitative Research in Finance Seminar, Colorado Springs, October 1983. Published in **Journal of Banking and Finance**, vol. 9, 1985, pp. 73-99. (jointly with I. Friend and B. N. Gultekin).

"On the Empirical Relevance of APT: Comment", **Journal of Portfolio Management**, vol. 11, 1985, pp. 70-71.

"New Tests of the APT and Their Implications", **Journal of Finance**, vol. 40, 1985 pp. 659-674. (jointly with I. Friend and B. M. Gultekin).

"Limited Dependent Variables", in vol. III, of **Handbook of Econometrics**, Z. Griliches and M. Intrilligator (eds.), North Holland, 1986.

"On the Existence of Generalized Inverse Estimators in a Singular System of Equations", **Journal of Forecasting**, vol. 6, 1987, pp. 181-193. (jointly with S. Schwarz).

"On the Invariance of Estimators for Singular Systems of Equations", **Greek Economic Review**, vol. 9, 1987, pp. 88-107. (jointly with S. Schwarz).

"Comparison of the Forecasting Performance of WEFA and ARIMA Time Series

Models", **International Journal of Forecasting**, vol. 4, 1988, pp.81-101. (jointly with S. Peristiani).

"Financial Stringency and the Probability of First Homeownership", in **Studies in Banking and Finance**, vol. 5, 1988, pp. 27-47, Supplement to the **Journal of Banking and Finance**.

"Restricted Reduced Forms, Forecasting and the GLSEM", chapter in Ullah, A. and J. Dutta (eds) **Contributions to Econometric Theory and Applications: A Volume in Honor of A.L. Nagar's** 60^{th} **Birthday**, Springer Verlag, New York 1990.

"The Structure of Production Technology: Evidence from the LED Sample I", (1990) **Annual Research Conference, 1990**, Bureau of the Census, US Department of Commerce, US Government Printing Office, Washington, D.C.

"On the Estimation of Systems of Equations with Autoregressive Errors and Singular Covariance Matrices", (1994), **Econometric Theory**, vol. 10, pp.

"Convergence of Second Moment Matrices", (1994), **Econometric Theory**, vol. 10, (appendix to the previous paper).

"Specification Tests in Simultaneous Equations Systems", (1994), **Journal of Econometrics**, vol. 64, pp. 45-76.

"Chi-Squared Tests in Singular Systems of Equations", (1994) *Journal of Econometrics*, vol. 64, (appendix to the previous paper).

"Identification and Kullback Information in the GLSEM", (1998), **Journal of Econometrics**, vol. 83, pp.163-184.

"Productivity Dynamics: US Manufacturing Plants, 1972-1986" (1998), joint with E. Bartelsman, **Journal of Productivity**,vol. 9, pp. 5-34.

" Structural VAR, MARMA and Open Economy Models" (1998), joint with Dimitrios D. Thomakos, **International Journal of Forecasting**, vol. 14, pp. 187-198.

"Socially Responsible Investment: Is It Profitable?" The Investment Research Guide to Socially Responsible Investing, **The Colloquium on Socially Responsible Investing** 1998.

"Estimation of Models with Grouped and Ungrouped Data by means of 2SLS", (2006), joint with Adriana Lleras-Muney, **Journal of Econometrics**, vol. 133, pp. 1-29.

"Testing for Autocorrelation in Systems of Equations" in D.G. A. Phillips (ed.), **The Refinement of Econometric Estimation and Test Procedures: Fi-**

nite Sample and Asymptotic Analysis, CU Press, Cambridge 2007.

RECENT DISCUSSION PAPERS:

"The Structure of Panel Data Models", 2006
"Constrained Estimation", 2006
"Diagonal Covariance Matrices", 2005
"Notes on Probability Theory", 2005
"Identification of Singular Autoregressive Models Revisited", 2005
"Moments of Truncated Variables, 2005
"Limited Information Estimation of Simultaneous Equations odels with Indicator Endogenous Variables", 2005
"Monte Carlo for Dummy Endogenous Models", 2005
"Generalized h-test, 2005
"Econometric Retrospectives", 2006
"Two Samples, 2004
"The Hausman Test Revisited", 2003
"A Note On Heteroskedasticity Issues", 1992
The preceding appear on my web page **www.columbia.edu/ ~ pjd1**.

"A Conformity Test for Cointegration" (1996), Discussion Paper, Columbia University.

"On the Design of Monte Carlo Experiments" (1996), Discussion Paper, Columbia University.

"On the Structure of Cointegration" (1995), Discussion Paper, Columbia University.

"A Useful Multivariate Stochastic Integration Result" (1995), Discussion Paper, Columbia University.

"The Structure of Production Technology: Productivity and Aggregation Effects" (1991), Discussion Paper No. 551, Department of Economics, Columbia University. (incorporated in **Theoretical and Applied Econometrics: The Selected Papers of Phoebus J. Dhrymes**, in the series **Economists of the Twentieth Century**, Edward Elgar, Aldershot, U.K, Brookfield, US, 1995.

"A Note on Identification Test Procedures: The Anderson-Rubin Test Revisited" (1991), Discussion Paper No. 587, Department of Economics, Columbia University, (incorporated in **Topics in Advanced Econometrics: Vol. II, Linear and Nonlinear Simultaneous Equations**, Springer-Verlag, New York 1994.

"A Note on Identification Test Procedures" (1991), Discussion Paper No. 588, Department of Economics, Columbia University, (incorporated in **Topics in Advanced Econometrics: Vol. II, Linear and Nonlinear Simultaneous Equations**), Springer-Verlag, New York 1994.

OLD UNPUBLISHED REPORTS:

"Econometric Issues in the Analysis of the AHS Files", 1985.

"A Note on the Multivariate Linear Regression Test for the APT Model", 1983.

"On the Testability of Arbitrage Pricing Models", 1983.

"On the Estimation of Certain Limited Dependent Variables Models", Discussion Paper No. 44, Department of Economics, Columbia University, December 1979.

"Tripartite Arms Interaction: A Preliminary Econometric Analysis", R-1390-PR, Rand Corporation, 1974.

"On Iterated Two Stage Least Squares and Fix Point Estimation", Discussion Paper No. 7302, Columbia University, Department of Economics, 1973.

"Models of Optimal Research and Capital Policies under Uncertainty", a paper presented at the First Far Eastern Meetings of the Econometric Society, Tokyo, July 1966.

"A Note on Uncertainty, Bayesian Inference and Competitive Behavior", Cowles Foundation Discussion Paper No. 124, August 1961.

"A Bayesian view of the Pareto Process", mimeographed.

BOOK REVIEWS:

A Strategy for Greek Economic Development, by A. G. Papandreou in **Economic Development and Cultural Change**, April, 1964.

Surplus Labor in Greek Agriculture, by A. A. Pepelassis and P. A. Yotopoulos in **Economic Development and Cultural Change**, vol. 12, 1964.

A Study in Econometrics: The Demand for Electricity in the United States, by F. M. Fisher and C. Kaysen in the **Journal of the American Statistical Association**, vol. 63, 1968.

The Theory and Empirical Analysis of Production, M. Brown (ed.), **The Journal of Finance**, vol. 23, 1968.

Foundations of Supply-Side Economics, by Canto, V. A. *et. al.*, (Academic Press), in **Journal of Business and Economic Statistics**, vol. 3, 1985, pp. 174-177.