

## Curriculum Vitae

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Name: David W. Butterfield

Citizenship: U.S.

Home Address: 641 Amaryllis Drive  
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Business Address: College of Business Administration  
University of Central Florida – Cocoa Campus  
1519 Clearlake Road, Building 3, Suite 347  
Cocoa, Florida 32922, U.S.A.  
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## Educational Background:

B.S. (Physics), California Institute of Technology, 1960.  
M.S. (Electrical Engineering), California Institute of Technology, 1961.  
A.B. (Social Science), University of California, Berkeley, 1967.  
M.A. (Economics), University of California, Berkeley, 1969.  
Ph.D.(Economics), University of California, Berkeley, 1975.

## Current Status:

Instructor, Department of Economics, College of Business Administration,  
University of Central Florida – Cocoa Campus

## Employment History:

Instructor, Department of Economics, University of Central Florida, Cocoa Campus, August 2003  
- present  
Associate Professor of Economics, McMaster University, July 1, 1982 to June 30, 2003 (retired).  
Assistant Professor of Economics, McMaster University, July 1, 1971 to June 30, 1982.  
Lecturer (in Economics), California State College-Hayward, Hayward, California, March  
1971-June 1971.  
Station Manager, Page Communications, Koror, Palau, April 1965-January 1966.  
Member of Technical Staff, TRW Systems (formerly Space Technology Laboratories), Redondo  
Beach, California, July 1961-April 1965.

Areas of Research Interest:

Environment and National Accounts  
 Theory of Natural Resources  
 Environment/Economy Interactions  
 Interregional Modelling  
 Applied Econometrics

Courses Taught (last 10 years):

Undergraduate:

Quantitative Business Tools I (ECO 3401 - linear algebra, calculus, probability and descriptive statistics)  
 Quantitative Business Tools II (ECO 3411 - statistical inference, linear regression and statistical decision analysis)  
 Managerial Economics (ECP 4703 – microeconomics for managerial decisions)  
 Contemporary Labor Economics (ECP 3203)  
 Money and Banking (ECO 3223)  
 Introductory Economics - Microeconomics and Macroeconomics  
 Introduction to Analysis of Economic Data (introductory statistics for economics majors)  
 Linear Economic Models (input/output models and linear programming)  
 Honours Seminar in Economics

Graduate:

Applied Business Research Tools (ECO 6416 - econometrics for MBA students)  
 Economic Analysis of the Firm (ECO 6115 – microeconomics for MBA students)  
 Economics for Management (MBA)  
 Macroeconomics (MBA)  
 Environmental and Resource Economics (MA) - natural resource component

Teaching Awards:

McMaster Student Union Teaching Awards - nominated in 1982, 1984, 1989, 2000, 2002 and 2003.

McMaster Student Union Lifetime Award - nominated in 1999.

## Graduate Supervision:

## Supervisor:

## M.A.:

T. Bandopadhyay, "A Study on the Problem of Optimum Economic Growth", 1975.

## Ph.D.:

M. Dayananda, "Potential Cartelization in a Monopsonistic Market Structure: A Model of the World Tea Market with Special Reference to Sri Lanka", 1977.

R. Azhar, "Induced Technological Change in United States Manufacturing Industries", 1980.

M. Faroque, "Employment Creation in Bangladesh: A Linear Programming Study", 1983.

S. Khandker, "The Farm-Household Model in the Context of Bangladesh", 1983.

Q. Shahabuddin, "Agricultural Decision Making Under Uncertainty: An Empirical Study for Bangladesh", 1983.

A. Karunasena, "A Macroeconometric Model of Sri Lanka", 1983.

M. Hoda, "A Demand-Supply Multisectoral Econometric Model of Iran", 1984.

P. Daniel, "The Two-Market Disequilibrium Model in the Canadian Context", withdrew from program.

S. Chami, "Tradeoffs between Short-Run and Long-Run Policy Goals, Optimal Control Experiments for Canada", 1985.

S. Sinha, "Testing the Schumpeterian Hypotheses Concerning Firm Size, Market Power and Innovative Activity", 1987.

N. Rizk, "Productivity, Technical Change, and the Role of R&D: The Case of Public Sector Engineering and Textiles Industries in Egypt 1975-1989", 1995.

## Committee Member:

K. Korayem, "The Consistency of Real and Financial Planning in Egypt", 1974.

A. Guha, "The Effects of Alternative Income Distributions on Resource Allocation in India", 1976.

M. Vargas, "Financial Interdependence and Economic Policy in Costa Rica", 1978.

J. Cox, "Intergovernmental Grants and Regional Adjustment", 1979.

J. Jideonwo, "Optimal Utilization of Oil Resources in Development", 1979.

M. Habib, "Optimal Research, Induced Innovation and Agricultural Development", 1980.

M. Kabir, "Price Formation in Bangladesh": An Econometric Analysis", 1981.

R. Aziz, "Optimal Regional Development in Canada", 1981.

- A. Dar, "Saving, Capital Imports and Growth: A Macroeconometric Study of India", 1981.
- T. Myatt, "The Cyclical Relationship Between Real Wages and Employment", 1981.
- V. Upadhyay, "Industrialization in India: A Re-examination", 1984.
- E. Asante, "Protection of Textile Industries in Canada, A Linear Programming Analysis", 1985.
- M. Kabalouris, "Short-run Deviations from Purchasing Power Parity", 1985.
- J. Johnson, "Production and Efficiency at Ontario Universities: Evidence from Departments of Economics", 1987.
- P. Abou-ezze, "Labour Mobility and Inter-regional Policy in Canada", 1987.
- L. Sun, "The Optimal Time Path for the Liberalization of a Controlled Economy: Theory and Simulation Results", 1991.
- N. Sharif, "Farmer Efficiency: The Frontier Approach Applied to Rice Farming in Bangladesh", 1992.
- S. Rahman, "Learning and Energy Substitution in Canadian Manufacturing", 1992.
- R. Tahir, "Sources of Macroeconomic Fluctuations in Canada", 1993.

## Publications:

## Peer Reviewed:

Books: None

## Contributions to Books:

"Bahrain and the GCC: Lessons in Arab Economic Cooperation", A.A. Kubursi and D.W. Butterfield, in ***The Economy of Bahrain***, Jeffrey B. Nugent and Theodore H. Thomas, eds., Croom Helm, London, 1985, pp. 190-209.

## Journal Articles:

"Resource depletion under uncertainty: implications for mine depreciation, Hartwick's rule and national accounting", David W. Butterfield, ***Resource and Energy Economics***, Vol. 27, Issue 3 (August 2003), pp. 219-238.

"Measuring the Returns to Tourism Advertising", David W. Butterfield, Kenneth R. Deal, and Atif A. Kubursi, ***Journal of Travel Research***, Vol. 37 (August 1998), 12-20.

"Regional Economic Effects of Recycling in Ontario", D. Butterfield and A. Kubursi, ***Canadian Journal of Regional Science***, Vol. 16, No. 3 (1993).

"The Economic Case for the Emergence of New Producers of Petro-chemicals from the Hydrocarbon Rich Developing Countries", P. Abou-Ezze, D. W. Butterfield and A.A. Kubursi, ***Industry and Development***, No. 27 (1989), 31-43.

"The Implications of Myopic Policymaking for Macroeconomic Performance", Saade N. Chami and David W. Butterfield, ***International Journal of Forecasting***, Vol. 5, (1989), 49-58.

"Measuring Economic Stimulation from Capital Investment in Transportation", B.L. Allen, D.W. Butterfield, A. Kazakov, M.L. Kliman, A.A. Kubursi, and J.D. Welland, ***Transportation Research Record***, 1197 (1988), 49-55.

"Banker's Preferences and Monetary Control", D. W. Butterfield and A.A. Kubursi, ***Economie Appliquee***, Vol. 41, No. 1, (1988), 109-127.

"The Land Constraint and the Impact of Borrowing Agricultural Technology: An Evaluation", V. Upadhyay, D. Butterfield and A. Kubursi, ***Asian Economic Review***, Vol. 24, No. 3 (1987), 1-21.

"Consumption, Family Size, Schooling and Labour Supply Decisions: Estimates of a Linear Expenditure System for Bangladesh", Shahidur R. Khandker and David W. Butterfield, ***Journal of Economic Development***, Vol. 12, No. 2 (1987), 89-113.

"Impacts on Growth of the Structure of Demand and Income Distribution in Less Developed Countries: an Application to Bangladesh", Ahkter Faroque and David Butterfield, ***Journal of Economic Development***, Vol. 12, No. 1 (1987), 161-193.

"The Impact of Risk on Agricultural Decisions: Tests of a Safety-First Model in Bangladesh", Quazi Shahabuddin and David Butterfield, ***Bangladesh Development Studies***, Vol. XIV, No. 3 (September 1986), pp. 13-37.

"A Model of the Petrochemical Industry", David W. Butterfield, Atif. A. Kubursi and J. Douglas Welland, ***Energy and Development***, Vol. 9, No. 2 (1984), pp. 299-335.

"Optimal Determination of OPEC Pricing and Output Strategies" (in Arabic), Atif A. Kubursi and David W. Butterfield, ***Oil and Arab Cooperation***, Vol. 10, No. 1 (1984), pp. 85-102.

"The Allocation of Research Expenditures Among Competing Crops: The Application of an Ex Ante Model to Bangladesh", Mohammed Ahsan Habib, David Butterfield and Stuart Mestelman, ***Journal of Economic Development***, December 1983.

"Regional Equity and Efficiency: Some Experiments for Canada", Rashid Aziz, David Butterfield and Atif Kubursi, ***Journal of Regional Science***, August 1983, pp. 397-412.

"Investment Planning and Industrialization in the Syrian Arab Republic: a Simulation Exercise", Atif A. Kubursi and David W. Butterfield, ***Industry and Development***, November 1981, pp. 65-85.

"Wage Indexation and the Unemployment-Inflation Trade-off", David W. Butterfield and Atif A. Kubursi, ***Journal of Macroeconomics***, March 1981, pp. 227-245.

Conference Proceedings:

"The Short-Run Versus Long-Run Tradeoff in Macroeconomic Policy: An Optimal Control Analysis in the Canadian Context", with S.N. Chami, ***Proceedings of the Fifth IFACS/IFORS Conference on Dynamic Modelling and Control of National Economies*** (1986).

Not Peer Reviewed:

Conference Proceedings:

"Comparing the Economic Benefits of Water Demand and Supply Management", A. Kubursi, D. Butterfield, K. Schaefer and M. Zegarac, ***Proceedings, 1996 Annual Conference, Water Resources***, Volume B, American Water Works Association, Denver, Colorado, pp. 579-585 (1996).

"Conservation Strategies - Through Pricing", D. Butterfield, A. Kubursi, K. Schaefer and M. Zegarac, ***Proceedings, 1996 Annual Conference, Water Resources***, Volume B, American Water Works Association, Denver, Colorado, pp. 545-560 (1996).

"Water Infrastructure Investments and Economic Impact", A. Kubursi, D. Butterfield, K. Schaefer and M. Zegarac, ***Proceedings of Conserv 96: Responsible Water Stewardship***, American Water Works Association, Denver, Colorado, (1996).

"Transport Impact Model (TRIM) and Its Application to Financial Decisions", A. Kazakov, B.L. Allen, D.W. Butterfield, M.L. Kliman, A.A. Kubursi and J.D. Welland, ***Proceedings of the 1988 Annual Conference, Roads and Transportation Association of Canada (RTAC)***, Roads and Transportation Association of Canada, Ottawa, Vol. 2, B19-B40 (1988).

"Factor Mobility and Economic Efficiency when Demand Constraints are Binding", David Butterfield and Atif Kubursi, ***Proceedings of the Sixteenth Annual Modeling and Simulation Conference***, University of Pittsburgh, (1985), Vol. 16, part 1, 395-399.

"Optimal Regional Intersectoral Fiscal Policy", D. W. Butterfield and A. A. Kubursi, ***Proceedings of the Fifteenth Annual Modeling and Simulation Conference***, University of Pittsburgh, Vol. 15, part 1, 207-213, (1984).

"Inter-regional Factor Mobilities and National Efficiency: Some Experiments for Canada", David Butterfield, Atif Kubursi and Rashid Aziz, in ***Proceedings of the Fourteenth Annual Modeling and Simulation Conference***, University of Pittsburgh, Vol. 14, (1983).

"Optimal OPEC Production Strategies", David W. Butterfield, Atif A. Kubursi and John A. Jideonwo, in ***Simulation, Modelling and Decisions in Energy Systems***, M.B. Carver and M.H. Hamza, eds., Anaheim, Acta Press, (1979).

Research Reports:

***Developing an Overall Framework for Evaluating and Communicating the Impacts of Capital Spending to Central Agencies***, B.L. Allen, D.W. Butterfield, M.L. Kliman, A.A. Kubursi, J.D. Welland and A. Kazakov, Ministry of Transportation-Ontario, December 1989.

***General Economic Stimulation and Energy Indicators for Capital Investment: Initiatives in Various Transportation Modes***, B.L. Allen, D.W. Butterfield, M.L. Kliman, A.A. Kubursi, J.D. Welland and A. Kazakov, Ministry of Transportation of Ontario, September 1988, Downsview, Ontario.

Presentations at Meetings (excluding those later published or listed above in Conference Proceedings):

Not Peer Reviewed:

"Sustainable Development Potential and Other Benefits from Restoration, Enhancement and Protection of Watersheds", P. Stokoe, M. Trott, A. Kubursi, D. Butterfield and T. Muir, International Symposium on Models of Sustainable Development, Paris, March 1994.

"An Assessment of the Socio-Economic Impacts of Solid Waste Management Options in Ontario", D. Butterfield, A. Kubursi, O. Salmon and M. Trott, Technology and the Environment Conference, Toronto, November 1992.

"Recycling, Reducing and Reusing: A Theoretical Framework", A.A. Kubursi and D.W. Butterfield; Environmental Research: 1990 Technology Transfer Conference, Toronto, Ontario, November 1990.

"Labour Mobility and the Interregional Equity-Efficiency Tradeoff", P. Abou-Ezze, D.W. Butterfield and A.A. Kubursi, joint session of the Canadian Economics Association and the Canadian Regional Science Association, University of Windsor, June 1988.

"A Regional Planning Model for Canada", A.A. Kubursi, P. Abou-ezze and D.W. Butterfield, 8th International Input-Output Conference, Sapporo, August 1986.

"Determinants of R&D Expenditure: Evidence from U.S. Manufacturing Industries", Rauf Azhar and David W. Butterfield, Canadian Economics Association Meetings, University of Manitoba, May 1986.

"Optimal Allocation of Economic Activities over Space: The Canadian Case", P. Abou-ezze, D.W. Butterfield and A.A. Kubursi, Canadian Economics Association Meetings, University of Manitoba, May 1986.

"Balancing the Canadian Budget: An Optimal Control Approach", S.N. Chami and D.W. Butterfield, Canadian Economics Association Meetings, University of Manitoba, May 1986.

"Supply versus Demand Constraints in Interregional Models", David Butterfield and Atif Kubursi, 9th Pacific Regional Science Conference, Molokai, Hawaii, August 1985.

"Regional Efficiency and Factor Mobility: A Canadian Perspective", David Butterfield, Atif Kubursi and Rashid Aziz, Eighth Pacific Regional Science Conference, Tokyo, August 1983.

"The Relationship between Local and National Impact: A Case Study", with A.A. Kubursi, S.H. Park and D.W. Butterfield, North American Meetings of the Regional Science Association, Pittsburgh, November 1982.

"Financial Interdependence and Economic Growth: An Input Output Approach", D.W. Butterfield, A.A. Kubursi and M.G. Vargas, 7th International Conference on Input-Output Techniques, Innsbruck, Austria, April 1979.

"Money as a Productive Factor", Conference of the Subcommittee on Monetary Research, SSRC, Washington, D.C., April 1971.

Administrative Responsibilities (past ten years):

- i) UCF – Economics Department  
ECO 3401 & 3411 Coordination, Learning Objectives and Common Exams
- ii) UCF – Southern Region  
Economics programs and scheduling
- iii) McMaster - Economics Department:  
Undergraduate Committee, member.
- iv) McMaster - Social Science Faculty:  
Committee on Undergraduate Curriculum and Policy, department representative.  
Committee on Retention and Recruitment, department representative.  
Faculty Council, department representative.  
Engineering Faculty, social science faculty representative.