

MOHAMMAD I. CHOWDHURY

Tenured Associate Professor
Department of Business Administration
& Education

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309 Cremer Hall
1200 Commercial Street
Emporia State University
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2502 West Ridge Drive
Emporia, Kansas 66801
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EDUCATION:

Ph.D. Economics, University of Missouri-Columbia, 1987
Areas of Concentration:
Econometrics, Statistics, Quantitative Analysis, and Micro-economics

M.A. Economics, University of Missouri-Columbia, May 1985
M.Sc. Statistics, University of Chittagong, Bangladesh, 1973

COURSES TEACHING/TAUGHT:

Emporia State University

Graduate: BU 820 - Quantitative Analysis for Business

Undergraduate: BU 255 - Business Statistics
Undergraduate: BC 104 - Micro-economics
Undergraduate: BU505 - Business Forecasting

COURSES TAUGHT:

at other institution

Graduate: BUAD 501 & 601-Quantitative Analysis for Business I & II

Undergraduate: MGMT 327 -Management Science & Systems
MGMT 328 -Production and Operations Management
ECON 413 - Mathematical Economics
ECON 414 - Econometrics
ECON 312 - Principles and Methods of Statistics II

Mohammad I. Chowdhury

COMPUTER FAMILIARITY:

Main Frame/PC: SAS, Excel, Lotus 1-2-3, QM for Windows, APL, SPSS,
Fortran, WordPerfect, The Management Scientist

RESEARCH INTERESTS:

Applied Research on Statistical Modeling and forecasting, Data Mining, Optimization, and Input-Output Models.

REFERRED JOURNALS:

Chowdhury, M., "An Expert System to Help End-Users Identify Multivariate Statistical Methods," *International Journal of Business and Economic Perspective*, (Co-authored With Khaled Al-Share, Arsjad Sjamsuddin, and Elizabeth Williams), Vol 1, Number 1, pp. 96-102, Spring 2006.

Chowdhury, M., "K-C Model of Three Customer Contact Dimensions: An Exploratory Hospital Field Test," *International Journal of Services and Standards*, (Co-authored William L. Smith) (Forthcoming 2006)

Chowdhury, M., "Data Envelopment Analysis (DEA): A Review of Concepts and Applications," *International Journal of Business and Economic Perspectives*, Vol. 3, Number 2, 2006 (Co-authored With Khaled Al-Share) (Forthcoming 2006)

Chowdhury, M. and Miller, D., "Application of the Logit Model in a Decision Making Process," *Business Journal*, pp. 57-62, Fall-Spring 2001.

Chowdhury, M. and Groneman, N., "Respecification and Application of a Model for Efficient Estimation in Presence of Serial Correlation," *Emporia State Research Studies*, Vol. 42, pp. 5-22, 2001.

Chowdhury, M. I. and Hoffman K., "School of Business Salary Equity and Compression at a Regional Midwestern University," *Business and Economic Review*, Vol. 14, No.1, pp. 30-40, Fall 2000.

Chowdhury, M., "A Short Term Hourly System Load Forecasting Model," *The Journal of Business and Economic Studies*, Vol. V, No. 1, Spring 1999, pp. 1-13.

Kenneth Hoffman and Mohammad I. Chowdhury, "Developing a Common Language for Work Place Ethics: Comparing the Options of Educators and Business Representatives," *Delta Pi Epsilon Journal*, Vol. XXXX, No. 4, Fall 1998, pp 190-201.

Mohammad I. Chowdhury

"An Application of Economic Forecasting using Neural Networks", *International Business Schools Computing Quarterly*, pp. 1-10, Summer 1996 (Joint paper with Dr. S. Bapna).

Chowdhury, M. and Edlund, T., "Electric Load Demand for Residential Customers in Central Maryland", *Journal of Business and Economic Studies*, pp. 70-86, Fall 1995.

REFEREED PROCEEDINGS (PUBLISHED):

"Data Envelopment Analysis (DEA): A Review of Concepts and Applications," Proceedings of the International Academy of Business and Public Administration Disciplines (IABPAD), April 24, 2006, pp. 1134-1147. (Co-authored with Khaled Al-Share)

"An Expert System to Help End-Users Identify Multivariate Statistical Methods," Proceedings of the International Academy of Business and Public Administration Disciplines (IABPAD), 2006, pp. 1122-1129. (Co-authored with Khaled Al-Share, Arsjad Sjamsuddin, and Elizabeth Williams)

"Faculty Salary Equity in the College of Arts and Sciences at a Regional Midwestern University," International Academy of Business and Public Administration Disciplines, 2006, pp. 998-1012. (Co-authored with Thomas E. Slocombe and Khaled Al-Share)

Chowdhury, M. I., Slocombe, T., and Miller, D., "Student Attendance and Classroom Performance: A Management Issue," Proceedings of the Southwest Business Symposium (SWBS), 22nd session, pp. 204 -222, March 2005, Edmond, OK.

Chowdhury, M. I., Al-Share, K., and Miller, D., "Does Attendance Affect student performance in Business Statistics Class? An Empirical study," Proceedings of the International Academy of Business and Public administration Disciplines (IABPAD), Vo. 2, Number 1, pp.1-4, January 2005.

Chowdhury, M. I., Al-Share, K., and Miller, D., "Does Class Time Make a Difference in Students' Performance in Business Statistics Class? An Empirical Study," Proceedings of the International Academy of Business and Public administration Disciplines (IABPAD), Vol. 1, Number 2, pp.191- 200, May 2004.

Chowdhury, M. I. and Hoffman, K., "Does Software Competency Make a Difference in the Performance of Business Statistics Assignments? An Empirical Analysis," Proceedings of the 30th Annual Conference of the International Business Schools Computing Association (IBSCA), pp. 198- 207, July 2002.

Chowdhury, M. I. and Hoffman, K., "Does Student Background in an Open Admission Policy School Matter in A Business Statistics Class at a Small Mid-Western University?," Proceedings of the DSI 32nd Annual Conference, p. 1251, 2001.

Chowdhury, M. and Hoffman, K., "Does Class Standing Make a Difference in the Distribution of Examination Scores In a Business Statistics Class," Proceedings of the Twenty-ninth Annual Conference of the International Business Schools Computing Association (IBSCA), pp. 13-21, July 2001.

Chowdhury, M. and Hoffman K., "Is there a Grade Difference in A Business Statistics Class? An empirical Analysis," Proceedings of the DSI 30nd Annual Conference, p.989, 1999.

Chowdhury, M. and Hoffman K., "Grade Inflation Revisited: An Empirical Approach," Proceedings of the Twenty Seventh Annual Conference of the International Business Schools Computing Association (IBSCA), pp.1-6, July 1999.

"Short-Term Electric Load Demand for Residential Customers in Central Maryland," Proceedings of the Twenty-Third Annual Conference of the International Business Schools Computing Association (IBSCA), pp. 303-313, 1995

"Model Specification and Efficient Estimation of a Model in Presence of Serial Correlation," Proceedings of the Twenty-Second Annual Conference of the International Business Schools Computing Association (IBSCA), pp.462-468, 1994

"An Application of Deseasonalized Forecasting Using System Load Data", Proceedings of the 21st Annual Conference of the International Business Schools Computing Association (IBSCA), pp 185-190, 1993.

"Application of Probability Model in a Dichotomous Dependent Variable", Proceedings of the 20th Annual Conference of the International Business School Computer Users Group (IBSCUG), pp. 352-357, 1992.

PAPER UNDER REVIEW:

"Faculty Salary Equity in the College of Arts and Sciences at a Regional Midwestern University," is under review by *the Journal of Business and Economic Review* (Co-authored with Thomas E. Slocombe and Khaled Al-Share)

PROCEEDINGS (PUBLISHED):

"Estimation of Domestic Car Sales in the United States", Fourth Annual Conference of the Urban Business Association, Baltimore, Maryland, April 29, 1995.

"An Application of Deseasonalized Forecasting Using Auto-regressive Model", Proceedings of the Third Annual Conference of the Urban Business Association, PP 223-226, Baltimore, Maryland, April 24, 1993.

"Application of Non Linear Probability Model in a Dichotomous Dependent Variable", Proceedings of the 1992 Annual Conference of Urban Business Association, pp. 122-126, Baltimore, Maryland, April 25, 1992.

"An Exercise on Forty Eight Hour System Load Forecasting by Using APL", Proceedings of the 1991 Annual Conference of Urban Business Association, pp. 116-126, Baltimore, Maryland, April 1991.

PRESENTATIONS IN CONFERENCES:

Chowdhury, M., "Data Envelopment Analysis (DEA): A Review of Concepts and Applications," The International Academy of Business and Public Administration Disciplines (IABPAD) Spring Conference, April 24, 2006, Dallas, TX (Presented with Dr. Khaled Al-Share)

Chowdhury, M., "Does Software Competency Make a Difference in the Performance of Business Statistics Assignments? An Empirical Analysis, 30th Annual Conference of the International Business Schools Computing Association, Savannah, Georgia, July 2002.

Chowdhury, M., "Does Student Background in an Open Admission Policy School Matter in A Business Statistics Class at a Small Mid-Western University?," DSI 32nd Annual Meeting, San Francisco, CA, November 18-20, 2001.

Chowdhury, M. and Hoffman, K., "Does Class Standing Make a Difference in the Distribution of Examination Scores In a Business Statistics Class," Twenty-ninth Annual Conference of the International Business Schools Computing Association (IBSCA), Providence, RI, July 2001.

Chowdhury, M., "School of Business Salary Equity and Compression at a Regional Midwestern University," INFORMS Annual Meeting 2000, San Antonio, TX, November, 2000.

Chowdhury, M. and Hoffman K., "Is there a Grade Difference in A Business Statistics Class? An empirical Analysis," DSI 30nd Annual Conference, New Orleans, LA, Nov. 1999.

Chowdhury, M., "Grade Inflation Revisited: An Empirical Analysis," Twenty Seventh Annual Conference of the International Business Schools Computing association Conference (IBSCA-99), Georgia institute of Technology, July 20, 1999.

Chowdhury, M., "Short Term Electric Load Demand for Residential Customers in Central Maryland," Twenty-Third Annual Conference of the International Business Schools Computing Association, Kalamazoo, Michigan, July 23-26, 1995.

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Chowdhury, M., "Estimation of Domestic Car Sales in the United States," Fourth Annual Conference of the Urban Business Association, Baltimore, Maryland, April 29, 1995.

Chowdhury, M., "Model Specification and Efficient Estimation of a Model in Presence of Serial Correlation," Twenty-Second Annual Conference of the International Business Schools Computing Association, Baltimore Inner Harbor, July 19, 1994.

REPORTS (PUBLISHED):

National Security Agency Employee Survey Data Analysis & Modeling Report by Morgan State University, Baltimore, Maryland, Feb.-April, 1993.

"U.S. Agriculture: Fertilizer", Long Term International Agricultural Outlook, FAPRI /WHARTON Econometric Forecasting Associates, Winter 1986 and Spring 1986.

SERVICE

PAPER REVIEWER FOR:

Business and Economic Review Journal

"Performance Testing and Student Performance: The Impact of Financial Incentives," *Business and Economic Review*, Bureau of Business and Economic Research, Jackson State University, Jackson, MS, May 2002, Re-reviewed in March 2003.

2002 Decision Sciences Institute Conference, San Diego, California

Statistics/Decision/Forecasting Track

- i. A Cautionary Note on using Ranked Set sampling with Simple linear regression
- ii. Discriminating Between Groups of Data From Mixtures of Distributions With Increasing Hazard Rate Functions

2001 Decision Sciences Institute Conference, San Francisco, California

Statistics/Decision/Forecasting Track

- i. The Distribution of Products of Independent Beta Random Variables
- ii. The Distribution of ns^2/σ^2 for Samples from Beta Populations
- iii. Decision Rules: Elections vs. Awards

2000 Decision Sciences Institute Conference, Orlando, Florida

MS/OR: Techniques, Methods, and Applications Track

- i. Variance Propagation and Moment Analysis for Tactical Capital Budgeting by HMO=s.

- ii. The Dynamic Interactions of Quality and pricing in the Presence of Advertising
- iii. Modeling SO2 Allowance Prices: A Projected Dynamical Systems Approach
- iv. Exploring the Need for Node Biases in Artificial Neural Networks for Time Series Forecasting

1999 Decision Sciences Institute in New Orleans, LA, November 20-23

Statistics, Decision Analysis & Forecasting Track:

- i. Roulette Revisited- Of martingales, Dollar Auctions, and Sunk Costs
- ii. Identifying Factors Characterizing Patient Satisfaction to Measure Success of Telemedicine in Rural Alaska

MS/OR: Techniques, Models, and Applications

- i. Determining Faculty Salary Equity Adjustments: A Multiple Objective Programming Approach
- ii. A Simplified Model for Discrete Multi-criteria Decision making.
- iii. Goal programming Model for Construction Bidding.

1999 International Business Schools Computing Association meeting in Atlanta, Georgia, July 19-22

- i. Laptop Computing-Initial faculty Responses to a New Phenomenon.

1998 International Business Schools Computing Association meeting in Denver, Colorado, July 9-11

- i. A proposal for a Mission Driven Faculty Development System in the spirit of TQM.
- ii. The Paperless Term Paper: Shaping Students= Skills For The 21st Century.

1995 DECISION SCIENCES INSTITUTE meeting in Boston, MA

- i. Chance Constrained Programming Model of Casualty insurances
 - ii. A Two Step Programming-Assignment Model for U.S. Air Force Sortie Assignment Decision
- 1995 NORTHEAST DSI** meeting, March, Providence, Rhode Island

- i. The Use of Patent Statistics to Measure & Predict International Competitiveness.
- ii. Pressures for technological Protectionism: An Empirical Analysis.

1994 DSI MEETING: MS/OR techniques, November, Hawaii.

- i. Development of a Framework for Discrete Event Simulation
- ii. A Model for Planning Staff and Bed Requirements in a Blood Bank
- iii. An Efficient Algorithm for Minimum Flow in Planar Networks

UNIVERSITY/SCHOOL(ESU):

Member: Assessment Committee, SB, 2006-2007
Member: MBA program Committee, SB, 2005-2007, 2001-2003
Member: General Education Council, ESU, 2000-2002
Member: MBA Curriculum Committee, 1999-2002
Member: Dean's Faculty Advisory Council, Fall 2002
Chair: Strategic Planning Committee, Spring 2001.
Member, VPAA's Faculty Advisory Committee, Spring 2000
Member: AACSB Accreditation Team, Continuous Improvement of Faculty
Qualifications and development, Fall 1998, Fall 1999, Fall 2000
Member: AACSB Faculty Development Committee, Spring 1999.
Member, Division X Acting Chair Search Committee, Summer 1999.
ESU Ombudsman for 1998-99
Member: Dean's Faculty Advisory Council, ESU, 1997- Spring 2001.
Member: Division X search committee, May 2000
Member: Faculty Composition and Development Committee, SB, ESU, 98-99

DEPARTMENT (ESU)

Member, Faculty Development Committee, SB, 2004-2005.
Member, Diversity Committee, SB, 2004-2005.
Member, Faculty Development Committee, 2003-2004
Member, POM Search Committee, Fall 2001
Member, Business Law Search Committee, Fall 1999.
Member: Regents Program Review Committee, ESU, 1998-99
Faculty Development Committee, 1997-98

(Other Institution)

Member, Teaching Effectiveness Committee, MSU, 1993
Member, Library Committee, MSU, 1991-93
Made requests for acquisitions of new books in Soper library.
Chairman, Facilities Committee, School of Business & Management (SBM), MSU, 1995-96
Member, Facilities Committee, 1992-95.

Developed a Work Order Request Form for McMechen Hall; Have filled Order Request Forms for Jenkins, Banneker Communications, NorthWood Complex, and Portable Units.

Member: Graduate Admissions Committee for MBA, SBM, MSU, 1991-94.

Developed Placement Tests for Quantitative Analysis for Business I and II Courses, 1992.
Developed a criterion of admission based on probability using GMAT and GPA, 1993.

PROFESSIONAL ORGANIZATIONS:

Member, American Statistical Association
Member, Institute of Operations Research and the Management Sciences (Informs)
Member, Decision Sciences Institute
Member, International Business Schools Computing Association, 2003
Member, American Economic Association, 1990-2000.

SEMINARS/ WORKSHOPS ATTENDED

AHigh Reliability Research: The research process and results@ by Professor Karlene H. Roberts, Haas School of Business, UC Berkeley, Roe Cross Conference Room, ESU, March 10, 2003.

AAn Introduction to Scantron Technology@ by Dr. James Stephens, ESU, CH315, March 8, 2002.

DO=S and DONT=S for successssful article submission process discussion by Dr. Larry Crumbly, Editor of *OIL, Gas, & Energy Quarterly*, CH204, April 6, 2001

ADiversity-Caused Conflict: A Better Training Approach,@ by Brad Goebel, John Hesse, and Dr. Leon Crosby at ESU, CH204, April 16, 2001.

AMeasuring Technical Efficiency and Total Factor Productivity of Cotton Producers in Texas@ by Kalyan Chakraborty at ESU, CH 204, August 2, 2000.

AThe Likely Neoclassical Evolutionary Origin of the Prospect Theory Consumer,@ by Peter C. Mayer at ESU, CH204, Aug. 04, 2000.

ADoing Business in Mexico: Understanding Cultural Differences@ by Charles R. Greer of Texas Christian University at ESU, CH 318, 3 PM, November 19, 1999.

Grant Workshop by Michael Neal of Grants Resource Center in Washington, D.C., ESU, CH204, October 6, 1999.

ADiffering Values Associated With Differing Ethics Premises@ by Dr. Judy McLean Parks of Washington University in Saint Louis, ESU, CH204, Wednesday, 12 Noon, April 28, 1999.

AToward a Model of Country Risk: The Influence of Internal and External Political Processes on International Business@ by Dr. Mohan Limaye of Boise State University, ESU, CH204, 3 PM, April 16, 1999.

ACommunication is a structure that creates the culture of the organization@ by Dr. Joann Keyton of The University of Memphis at ESU, CH204, Monday, April 12, 1999.

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Seminar of Case Studies, Presented by Dr. Bill Remington, Dr. Sridhar Sundaram, and Dr. Mary Margaret Weber, Emporia State University, November 19, 1998.

AThe Impact of Globalization on Business and Business Studies: An Indian Perspective@ by Dr. K. Chandrasekhar, Emporia State University, August 26, 1997.

AInternationalizing the Business Curriculum at Morgan State University," Conducted by the Memphis State CIBER, McMechen 504, Jan.13, 1994.

"The impact of firm type on tax preference shifting in 1986", by Dr. Brad Childs, Mckelden 309, Morgan State University, April 5, 1994.

"Intelligent Scheduling in Flexible Manufacturing Systems" by Dr. Zigish Zaveri, Mckelden 309, Morgan State University, April 29, 1994.

"Internationalizing the Core Program in Marketing, Management, and Accounting", presented by Dr. Lee Preston, Director, University of Maryland Ciber Institute, Morgan State University, November 18, 1993.

"Asian Studies Development Program", Presented by Scholars from the East/West Center in Hawaii, McMechen 504, Morgan State University, October 26, 1993.

"Japan: An Intercultural Training Program", Mitchell Building, Rm 122, Morgan State University, May 25-26, 1993.

"Teaching Effectiveness Workshop" by Dr. Harvey Brightman of Georgia State University, Mckelden Ball room, Morgan State University, March 19, 1993.

Xerox Corporation: Quality Improvement Process Seminar and Problem Solving Skills Training, Leesburg, Virginia, 1991.

Quality Control Seminar: Presented by an IBM executive, McMechen 504, Morgan State University, April 9, 1991.

Greater Baltimore County and Morgan State University Reception, USF&G, Baltimore Inner Harbor, Nov. 15, 1990.

A Talk offered by an executive from Manekin Corporation, McMechen 504, Morgan State University, Oct. 24, 1990.

CONFERENCE DISCUSSANT:

“Applying Data Cleansing Techniques” by Paul Ziegler and Ronald King, The International Academy of Business and Public Administration Disciplines Conference, April 20-23, 2006, Dallas, Texas.

“Determining IT Support Staffing Levels in K-12 Schools in Texas” by Jonathan Coppin and Karl Walker, The International Academy of Business and Public Administration Disciplines Conference, April 20-23, 2006, Dallas, Texas

Twenty Second Annual Conference of the International Business Schools Computing Association (**IBSCA**), Baltimore Inner Harbor, July 19, 1994.

"A Strategic Multiechelon Distributed Database Model for Training and Development Systems" by Mr. Hany Fanous, session M6, Baltimore Inner Harbor, Maryland, July 18, 1994.

Urban Business Association Conference, Baltimore, Maryland, April 1992.

"Forecasting Highway Mileage in Virginia" by Samuel K. Moak, Department of Marketing and Management, Virginia State University, Petersburg, Va 23803.

"Issues in marketing and Services" session 19, Baltimore, Maryland, April 25, 1992.

Urban Business Association Conference, Baltimore, Maryland, April 27, 1991.

"Brownian Motion & its applications to POM" by Dr. Mark Tang.

"A Computer Program for Statistical Output Analysis from a Queuing Simulation" by Dr. Dennis Agboh.

PROFESSIONAL EXPERIENCE:

08/97-Present Associate Professor of Business Administration and Education, School of Business, Emporia State University, Emporia, Kansas 66801

08/90-05/97 Assistant Professor, Information Science & Systems, School of Business and Management, Morgan State University, Baltimore, Maryland 21239.

Have been involved with applied econometric/statistical modeling research; provide students and the university with quality instruction and service to meet the educational needs of a diverse student population through class meetings, labs, workshops, seminars, professional meetings, publications, research projects, and various committee assignments.

Mohammad I. Chowdhury

06/89 - 09/89 Senior Economic/Fiscal Analyst; State of Delaware; Reviewed State economic and revenue models; attended numerous Delaware action committee for development and improvement technical sub-committee meetings

03/88 - 05/89 Research Associate, Department of Agricultural Economics, Texas A&M University, College Station, Texas 77843

Identification of livestock variables; development of a database using AREMOS; Proposed a structural model for the U.S. Beef industry.

01/86 - 09/87 Research Analyst, Food and Agricultural Policy Research Institute, Department of Agricultural-Economics, University of Missouri-Columbia, Missouri 65201.

Responsible for building and estimating econometric models in some of the U.S. agricultural sector, make forecast and analyze agricultural policy.

Developed an econometric model, which provided inter-relationships among the demand, supply, export, import, and stocks of the U.S. fertilizer industry.

01/85 - 12/85 Research Assistant, The Center for National Food and Agricultural Policy, Department of Agricultural Economics, Univ. of Missouri-Columbia, MO 65211.

Developed a cost minimization program for the City of Columbia Municipal Power Plant using APL.

Worked on a project to project the impact of weather on retail sales of major U.S. cities by using Principal Component Analysis.

CONSULTING EXPERIENCE: City of Columbia, Missouri

Duration: Jan. 1985 - June 1985

Responsibilities: Develop and test the performance of a short-term system load forecasting model

RESEARCH AWARD:

For the paper "Data Envelopment Analysis (DEA): A Review of Concepts and Applications" by The International Academy of Business and Public Administration Disciplines (IABPAD), Dallas, Texas, April 21, 2006

SERVICE AWARD:

Session Chair: International Academy of Business and Public Administration Disciplines Conference, April 20-23, 2006, Dallas, Texas

Mohammad I. Chowdhury

Session Discussant: International Academy of Business and Public Administration Disciplines Conference, April 20-23, 2006, Dallas, Texas

TEACHING AWARD:

WHO'S WHO AMONG AMERICA'S TEACHERS, 1994. The Best Teachers in America Selected by the Best Students.

TRAINING AWARDS:

Xerox Corporation Integrated Systems Operations: Recognition for the successful completion of Quality Improvement Process Seminar, Leesburg, VA, Fall 1991.

Xerox Corporation Integrated Systems Operations: Recognition for the successful completion of Problem Solving Skills Training, Leesburg, VA, Fall 1991

GRANTS:

Summer Research Grant Award, School of Business, ESU, 1998

Summer Research Grant Award, School of Business, MSU, 1994

Summer Research Grant Award, School of Business, MSU, 1991