

## CURRICULUM VITAE

**NAME: JAMES MICHAEL HARDIN, PH.D.**

*HOME ADDRESS/PHONE NUMBER:*

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*BUSINESS ADDRESS/PHONE NUMBER:*

Provost and Vice President for Academic Affairs  
Samford University  
800 Lakeshore Drive  
Birmingham, AL 35229  
205-726-2718 (office)  
205-266-4395 (cell)  
mhardin@samford.edu

*BIRTHDATE:* March 14, 1956

*BIRTHPLACE:* Mobile, Alabama

*MARITAL STATUS:*

Married (2 Children)

*EDUCATION:*

The University of Alabama  
Tuscaloosa, Alabama

Ph.D. 1985 Applied Statistics

New Orleans Baptist Theological Seminary  
New Orleans, Louisiana

M.Div. 2001 Divinity/Theological Studies

The University of Alabama  
College of Arts and Sciences  
Tuscaloosa, Alabama

MA 1984 Mathematics

Florida State University  
College of Education  
Tallahassee, Florida

MS 1981 Research Design and Statistics

University of West Florida  
Pensacola, Florida

BA 1978 *Magna cum laude*—Mathematics

University of West Florida  
Pensacola, Florida

BA 1978 *Magna cum laude*—Philosophy

**POSITIONS HELD:**

- 7/2015 – Present *Provost and Vice President for Academic Affairs*, Samford University, Birmingham, Alabama
- 8/2011 – 6/2015 *Dean*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama.
- 5/2008 – 8/2011 *Senior Associate Dean*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama.
- 1/2007 – 8/2011 *Associate Dean for Research*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama.

**Administrative and Other Positions (The University of Alabama)**

- 2008 – Present *Director*, NIH Alabama EPSCoR Agency, The University of Alabama, Tuscaloosa, Alabama.

- 2006 – 2012 *Associate Director, UA Campus*, University Transportation Center for Alabama, The University of Alabama, The University of Alabama at Birmingham, and The University of Alabama in Huntsville.
- 2004 – 2009 *Director*, Data Analysis and Data Management Core, Center for Mental Health and Aging, The University of Alabama, Tuscaloosa, Alabama.
- 2003 – 2011 *Director*, Institute of Business Intelligence, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama.

#### **Current Faculty Appointments (The University of Alabama)**

- 2015 – Present *Professor of Quantitative Analysis*, Brock School of Business, Samford University, Birmingham, Alabama
- 2013 – 2015 *Russell Professor of Business*, Culverhouse College of Commerce, The University of Alabama, Tuscaloosa, Alabama.
- 2001 – Present *Professor of Statistics*, Department of Information Systems, Statistics, and Management Science, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama.

#### **Other Current Faculty Appointments**

- 2010 – Present *Adjunct Professor of Biostatistics*, Department of Biostatistics, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama.
- 2002 – 2012 *Adjunct Professor of Health Informatics*, Department of Health Services Administration, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama.

#### **Former Primary Faculty Appointments (The University of Alabama at Birmingham)**

- 2002 – 2006 *Adjunct Professor of Biostatistics*, Department of Biostatistics, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama.
- 2002 – 2006 *Adjunct Professor of Computer Science*, Department of Computer Science and Information Science, School of Natural Sciences and Mathematics, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1996 – 2001 *Professor of Health Informatics*, Department of Health Services Administration, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1996 *Professor of Biostatistics and Biomathematics*, Department of Biostatistics and Biomathematics, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1991 – 1996 *Associate Professor of Biostatistics and Biomathematics*, Department of Biostatistics and Biomathematics, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1988 – 1991 *Assistant Professor of Biostatistics and Biomathematics*, Department of Biostatistics and Biomathematics, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama.

#### **Former Secondary Faculty Appointments (The University of Alabama at Birmingham)**

- 2000 – 2003 *Research Professor of Family and Community Medicine*, Department of Family and Community Medicine, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).
- 1998 – 2003 *Professor of Computer Science*, Department of Computer Science and Information Science, School of Natural Sciences and Mathematics, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).
- 1997 – 2001 *Professor of Biostatistics and Biomathematics*, Department of Biostatistics and Biomathematics, School of

Public Health, The University of Alabama at Birmingham, Birmingham, Alabama.

- 1996 – 2001 *Professor of Medical Informatics*, Division of Medical Informatics, Department of General and Internal Medicine, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).
- 1994 – 2001 *Associate Professor of Gerontology and Geriatric Medicine*, Division of Gerontology and Geriatric Medicine, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).
- 1993 – 2001 *Associate Professor*, Department of Counseling, Human Services, and Foundations, School of Education, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).
- 1993 – 1996 *Associated Faculty of Developmental Psychology*, Department of Psychology, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1993 – 2001 *Associate Professor of Preventive Medicine*, Division of Preventive Medicine, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).
- 1993 – 2001 *Associate Professor of Nutrition Sciences*, Department of Nutrition Sciences, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).
- 1993 – 1996 *Associate Professor of Health Informatics*, Department of Health Services Administration, Division of Health Informatics, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama (Secondary).

**Former Administrative and Other Positions (The University of Alabama at Birmingham)**

- 1998 *Interim Co-Director*, Health Informatics Program, Department of Health Services Administration, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1991 – 1996 *Director*, Information Systems and Data Analysis Facility, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1990 – 1993 *Director*, Computer Resources Laboratory, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1994 – 1996 *Co-Director*, Human Subjects and Data Analysis Core, Developmental Disabilities Prevention Research Center, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1995 – 1996 *Associate Project Director*, Head Start National Research Evaluation Team, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1991 – 1993 *Deputy Director*, CARDIA Coordinating Center, Division of Preventive Medicine, Department of Medicine, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama, funded by the National Heart, Lung, and Blood Institute, National Institutes of Health, Department of Health and Human Services, Washington, DC.
- 2000 – 2001 *Senior Scientist*, The University of Alabama at Birmingham Center for Aging, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1999 – 2001 *Scholar*, The University of Alabama at Birmingham John J. Sparkman Center for International Public Health Education, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1998 – 2001 *Senior Scientist*, The University of Alabama Chemoprevention Center, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1993 – 2000 *Scientist*, The University of Alabama at Birmingham Center for Aging, The University of Alabama at Birmingham, Birmingham, Alabama.

- 1993 – 1997 *Scientist*, Comprehensive Cancer Center, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1994 – 2001 *Affiliated Member*, Campus-wide Toxicology Program, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1992 – 2001 *Preceptor*, Caries Research Program, School of Dentistry, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1991 – 2001 *Scientist*, AIDS Research Center, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1991 – 2001 *Scholar*, UAB Center for Health Risk Assessment and Disease Prevention, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1991 – 1996 *Senior Scientist*, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1990 – 1993 *Biostatistician*, CARDIA Coordinating Center, Division of Preventive Medicine, Department of Medicine, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama, funded by the National Heart, Lung, and Blood Institute, National Institutes of Health, Department of Health and Human Services, Washington, DC.
- 1988 – 1997 *Biostatistician*, Biostatistics Unit, Comprehensive Cancer Center, The University of Alabama at Birmingham, Birmingham, Alabama.
- 1988 – 1993 *Associate Scientist*, Comprehensive Cancer Center, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama.

**Former Positions:**

- 1986 – 1988 *Assistant Professor of Statistics*, Department of Mathematics and Statistics, Mississippi State University, Starkville, Mississippi.
- 1985 – 1986 *Adjunct Assistant Professor*, Department of Mathematics and Statistics, University of West Florida, Pensacola, Florida.
- 1984 – 1986 *Mathematical Statistician* GS 12, Freeman Mathematical Laboratory, Eglin Air Force Base, Florida.
- 1981 – 1984 *Graduate Research and Teaching Assistant*, Department of Management Science and Statistics, The University of Alabama, Tuscaloosa, Alabama.
- 1979 – 1981 *Mathematical Statistician*, Freeman Mathematical Laboratory, Eglin Air Force Base, Florida.
- 1978 – 1979 *Graduate Teaching Assistant*, Department of Educational Research and Department of Mathematics, Florida State University, Tallahassee, Florida.

**VISITING POSITIONS:**

- 2000 *Visiting Professor*, Department of Management and Information Sciences and Statistics, Trinity College, University of Dublin, Dublin, Ireland, August – September, 2000 (Sabbatical).
- 2000 *Scholar in Residence*, Center for Information Management and Department of Information Systems and Operations Management, Loyola University Chicago, Chicago, Illinois, February 9-12, 2000. (Was chosen to be the first such scholar.)
- 1999 *Visiting Scholar*, Department of Management and Information Sciences and Statistics, Trinity College, University of Dublin, Dublin, Ireland, September 21-27, 1999.

## MEMBERSHIPS IN PROFESSIONAL AND SCHOLARLY ORGANIZATIONS:

- Member, Alpha Kappa Psi Professional Business Fraternity, 2014 – Present
- INFORMS, 2011 – Present
- Member, Rotary International, 2007 – Present
- Associate Member, Institute for Data Warehousing, 1997 – 2001
- The Association of Computing Machinery, 1997 – 2011
- Philosophy of Science Association, 1989 – Present
- Alabama Chapter of the American Statistical Association, 1984 – Present
- The Institute of Mathematical Statistics, 1982 – Present
- Biometric Society (ENAR), 1982 – Present
- American Statistical Association, 1979 – Present
- Member, Decision Sciences Institute, 2015 - Present

## PATENTS:

On December 31, 2002 the United States Patent Office formally granted patents for "Method for analyzing sets of temporal data," inventors: Stephen E. Brossette, Stephen A. Moser, Alan P. Sprague, *J. Michael Hardin*, and Warren T. Jones. The U.S. Patent Application Serial Numbers are: 09/679,676 and 09/554,359.

This is work related to data mining in controlling hospital infection rates and quality of patient care. The work was done at UAB. The patent is licensed to the Birmingham-based company **MedMined** founded by Stephen Brossette. See <http://www.cardinal.com/medmined/>

## FELLOW AWARDS:

- Elected 2011 Fellow of the American Statistical Association.

## BOARD MEMBERSHIPS

- 2014 – Present     *Board of Directors*, Business Council of Alabama, Birmingham, Alabama.
- 2014 – Present     *Chairman of the Board*, Alabama Quality Assurance Foundation, LLC (non-profit), Birmingham, Alabama.
- 2011 – 2015         *Board of Directors*, Southern Business Administration Association, Tampa, Florida.
- 2013 – 2015         *Board Member*, SAS Customer Advisory Board, Cary, North Carolina.
- 2013 – 2015         *Board Member*, INFORMS Analytic Committee, Catonsville, Maryland.
- 2013 – 2015         *Committee Member*, Performance Improvement Committee, DCH Hospital, Tuscaloosa, Alabama.
- 2013 – 2015         *Board of Directors*, Graduate Management Admission Council.
- 10/2012 – 2015     *Board of Advisors*, Regions Bank, Tuscaloosa, Alabama.
- 5/2012 – 2015       *Board of Directors*, Tuscaloosa Symphony Orchestra, Tuscaloosa, Alabama.
- 4/2012 – Present    *Board Member*, American Statistical Association Development Committee, Raleigh, North Carolina
- 1/2012 – 2015       *Board of Directors*, Black Warrior Council, Boy Scouts of America, Tuscaloosa, Alabama.
- 4/2010 – Present    *Board of Directors*, Executive Committee, Alabama Quality Assurance Foundation, LLC (non-profit), Birmingham, Alabama.
- 4/2010 – Present    *Board of Advisors*, Member, Capitalytics LLC, Birmingham, Alabama.

- 4/2009 – 2010 *Member, Compliance Committee, Alabama Quality Assurance Foundation, LLC (non-profit), Birmingham, Alabama.*
- 4/2008 – Present *Board of Directors, Alabama Quality Assurance Foundation, LLC (non-profit), Birmingham, Alabama.*
- 2001 – Present *External Advisor Board Member, Bioinformatics/Biostatistics Shared Resource Facility, The University of Kansas Cancer Center, Department of Biostatistics, The University of Kansas Medical Center, Kansas City, Missouri*

## HONORS:

- Invited Coach. The University of Alabama Athletic Department, Annual A-Day game, April 14, 2011.
- Cambridge Who's Who, Lifetime Member. Registry of Executives, Professionals and Entrepreneurs, 2008-2009 Edition
- Letter and Certificate of Appreciation, from Dr. Donald E. Williamson, M.D., State Health Officer and Head, State of Alabama Department of Public Health, in recognition of activities and assistance in developing and implementing the Alabama Child Death Review System for the Department's Bureau of Family Health Services, March 30, 2000.
- Windsor, R.A., Woodby, L.L., Miller, T.M., Hardin, J.M., Crawford, M.A., DiClemente, C.C., "Evidence-based Patient Education Increases Smoking Cessation in Pregnancy," Reuters Medical News [On-line] Available: <http://www.reutershealth.com/mednews>, February 8, 2000.
- International Who's Who of Professionals, 1998, 1999, 2000 Editions
- International Who's Who of Public Service, 2000 Edition
- International Biographical Centre, 26th Edition
- Lexington Who's Who Among Executives & Professionals, 1999/2000 Millennium Edition
- Who's Who in the South and Southwest, 26th Edition
- International Who's Who of Information Technology, 1999 Edition
- Interview, given to For the Record, regarding Defining Data Mining, p. 28, February 1998
- Who's Who in the South and Southwest, 25th Silver Edition, 1997
- Who's Who in Medicine and Healthcare, 2nd Edition, 1997
- Interview, given to Physical Therapy, published by the American Physical Therapy Association, regarding Outcomes Data Collection and Outcomes Databases, p. 52, March 1997
- Sterling Who's Who, Executive Edition, 1995 – 1996
- Men of Achievement, 1995
- Member, Two Thousand Notable American Men, American Biographical Institute, 3rd Edition, 1995
- Sterling Who's Who, 1994 – 1999
- Who's Who Worldwide; Who's Who Registry of Business Leaders, 1994 – 1995
- Who's Who in the World, 1994, 1995
- Dictionary of International Biography – Twenty-Third Edition; International Biographical Centre, Cambridge, England, 1994
- Who's Who in Education in America, 1993, 1994, 1995
- Nominated for the Excellence in Teaching Award for the Joint Health Sciences Programs, 1992
- Who's Who of Emerging Leaders in America, 1992, 1993, 1994
- Who's Who Among Young American Professionals, 1992, 1993
- Who's Who in the South and Southwest, 1991, 1992, 1993, 1994, 1995
- Phi Sigma (national biological honorary society), The University of Alabama at Birmingham, Birmingham, Alabama, 1990
- Sustained Superior Performance Award, Department of the Air Force, Freeman Mathematical Laboratory, Directorate of Computer Science, Eglin Air Force Base, October 1985
- Outstanding Graduate Student in Applied Statistics, The University of Alabama, 1984

- Mu Sigma Rho (statistical honorary society), The University of Alabama, Vice-President, 1982 – 1983; President, 1983 – 1984
- Phi Kappa Phi (national honorary society), elected to membership, University of West Florida, 1978

## **OTHER SPECIAL COMMENTS:**

### **Masters Thesis Direction**

Heim, P., “A Longitudinal Modeling and Analysis of Smoking, Integrating Fluctuational Patterns, and Its Impact on Birthweight over Successive Pregnancies: A GEE and Mixed Model Comparison,” Department of Biostatistics, School of Public Health, The University of Alabama at Birmingham, Graduated December, 1996.

Hsu, C., “A Study of Some Statistical Techniques for Cancer Chemoprevention Experiments.” Department of Biostatistics, School of Public Health, The University of Alabama at Birmingham, Graduated August, 1990.

*External Ph.D. Examiner*, “Comparing Generalized Additive Neural Networks with Decision Trees and Alternating Conditional Expectations,” S.E.S. Campher, MS Candidate, Faculty of Natural Sciences, Computer Science, Yunibesiti Ya Bokone-Bophirima, North-West University, NoordWes-Universiteit, Potchefstroom Campus, Potchefstroom, South Africa, May 2008.

(I have served as a committee member on over 15 Masters Committees. A list is available upon request.)

### **Ph.D. Dissertation Direction**

Bass, J.D., “A Contribution to Longitudinal Data Analysis: Maximum Quasi-Likelihood Generalized Estimating Equations,” Department of Biostatistics, School of Public Health, The University of Alabama at Birmingham, Graduated June 1993.

Hsu, C., “Statistical Analysis of Cancer Chemoprevention Experiments.” Department of Biostatistics, School of Public Health, The University of Alabama at Birmingham, Graduated June 1995.

Person, S., “Time Series Analysis in the Presence of Missing Data,” Department of Biostatistics, School of Public Health, The University of Alabama at Birmingham, Graduated December 1998.

Wilshire, J., “Physician Trust and Access to Care Use of Care, Satisfaction with Care Among Women,” Co-director, Department of Health Services Administration, Program in Administration-Health Services, The University of Alabama at Birmingham, Graduated August 2003.

Hong, B., “Multivariate Surveillance Schemes for Infectious Diseases on Multiple Locations,” Applied Statistics Program, The University of Alabama, Graduated June 2004.

Szychowski, J., “Locally Weighted Regression for Improved Variable Selection Methods,” Applied Statistics Program, The University of Alabama, Graduated August 2006 (co-director with M. Conerly).

Anderson, B., “Topics in Reject Inference for Credit Scoring,” Applied Statistics Program, The University of Alabama, Graduated August 2008.

Landeros, A., “Studies of Data Complexity Measures Applied to Classifier Evaluation,” Applied Statistics Program, The University of Alabama, Graduated August 2008.

Devasher, M., “Optimal Design Theory for Phase I Pharmacokinetic Studies,” Applied Statistics Program, The University of Alabama, Graduated December 2008.

Keel, T. L., “Lipomatous Tissues: Variation in Treatment Procedures, Co-morbidities, and Outcomes,” Co-director, Department of Health Services Administration, Program in Administration-Health Services, The University of Alabama at Birmingham, Graduated December 2008.

Choi, H., “Multivariate Time Series Clustering using Kernel Variant Multi-Way Principal Component,” Applied Statistics Program, The University of Alabama, Graduated May 2010.

*External Ph.D. Examiner*, “Automated Construction of Generalized Additive Neural Networks for Predictive Data Mining,” JV du Toit, Ph.D. candidate, Faculty of Natural Sciences, Yunibesiti Ya Bokone-Bophirima, North-West University, NoordWes-Universiteit, Potchefstroom Campus, Potchefstroom, South Africa, 2006.

*External Ph.D. Examiner*, “A Some Generalized Discrete Distributions and their Applications,” Sri Basudev Pradhan, Ph.D. candidate, Sambalpur University, Jyoti Vihar, Burla, Sambalpur (Orissa), India, 1999.

(I have served as a committee member on over 45 Ph.D. dissertation committees. A list is available upon request.)

### **Post-doctoral Direction**

Redden, D., “Applications of Hierarchical Linear Models and Bayesian Analysis to a Multisite Study: The National Head Start Transition Study,” Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama, September 1994 – July 1996.

### **MAJOR CONSULTANCIES:**

#### **Statistical consultant to:**

- Administration on Children, Youth, and Families, Health and Human Services, Washington, DC
- AmSouth Bank, Birmingham, Alabama
- Baylor University
- Fitzpatrick, Cooper, and Brown, Attorneys at Law, Birmingham, Alabama
- O2 Ideas Worldwide, Birmingham, Alabama
- Blue Cross and Blue Shield of Alabama, Birmingham, Alabama
- Cahaba Government Benefit Administrators, Birmingham, Alabama
- Cahaba Safeguard Administrators, Birmingham, Alabama
- FMAS Medical Information Services: A Subsidiary of DynCorp, Columbia, Maryland
- National Institute of Health, National Heart, Lung, and Blood Institute, Washington, DC
- The Center for Statistical and Mathematical Services, Mississippi State University
- SAS Quality Partner, Cary, North Carolina
- SAS North American Consulting, Cary, North Carolina
- SAS Contract Instructor, Cary, North Carolina – Areas: Data Mining and Time Series Analysis
- US Army Dental Command, Fort Sam Houston, Texas
- Southern Research Institute, Birmingham, Alabama
- Sirote and Permutt, Attorneys at Law, Birmingham, Alabama

### **MAIN AREAS OF RESEARCH AND SCHOLARLY INTEREST:**

Statistical issues in Business Analytics, Data Mining and Knowledge Discovery, including appropriate Database and Data Warehouse design and development. Particular areas of application include health and healthcare organization data analysis, e.g. profiling, case-mix adjustments, fraud and aberrancy identification, and utilization and risk management. Other application industries include marketing organizations, database marketing, credit scoring, and financial risk management. Additional areas of interest include statistical methodologies for the design and analysis of longitudinal studies, hierarchical (HLM) modeling, Bayesian methods, the interaction and relationship of philosophies of science to the development of statistical methodologies, statistical issues in the design of experiments, time series analysis, simulation, and statistical computing and education.

### **ACTIVITIES RELATED TO SERVICE TO PROFESSIONAL ORGANIZATIONS:**

#### **Current Appointments**

5. *Editor*, **International Journal of Business Analytics**, 2017 - Present
4. *Editor*, **International Journal of Telemedicine and Applications**, 2017 - Present
3. *Editorial Board Member*, Eminent Scholar Editor for Business Analysis Section, **Decision Science**



**Institute**, 2014-Present.

2. *Member*, **SEC Dean's Affinity Group, AACSB**, 2011 – Present.
1. *Editorial Review Board*, **International Journal of Information Systems and Supply Chain Management**, 2006 – Present.

#### Former Appointments

27. *Steering Committee*, **Associate Deans Affinity Group, AACSB**, 2010 – 2012.
26. *Invited Member*, **College of Scientific Review, National Institutes of Health**, 2010 – 2013.
25. *Peer Review Team Member*, **AACSB**, The University of Cape Town, South Africa, 2013.
24. *Chair*, **Health Care Reform Summit**, (Keynote Speaker, Governor Robert Bentley), Hosted by the University of Alabama, Birmingham, Alabama, February 2011.
23. *Chair*, **West Alabama Economic Summit**, (Keynote Speaker, Governor Bob Riley), Hosted by the Culverhouse College of Commerce and Business Administration, Tuscaloosa, Alabama, January 2009.
22. *Chair*, **The 2008 Economic Summit for Alabama Leaders**, (Keynote Speaker, Governor Bob Riley), Hosted by the Culverhouse College of Commerce and Business Administration, Birmingham, Alabama, October 2008.
21. *Associate Editor*, **International Journal of Telemedicine and Applications**, 2007 – 2010.
20. *Member*, Reviewer Panel, **Decision Sciences**, 2006 – 2009.
19. *Associate Editor*, **The American Statistician**, a publication of the American Statistical Association, 2006 – 2009.
18. *Member*, **ENAR Regional Advisory Board (RAB)**, 2006 – 2009. This Board makes recommendations to the Eastern North American Regions (ENAR) Regional Committee, which is the governing body of ENAR. ENAR is one of the regions of the International Biometric Society.
17. *Co-Chair and Session Organizer*, **Data Mining: Mining the Past, Seeing the Future, South East SAS Users Group 2008**, St. Pete Beach, Florida, October 19-22, 2008.
16. *Co-Session Organizer*, **Statistical Quality Control Applications to Epidemiological Surveillance, 2006 Joint Statistical Meetings**, Seattle, Washington, August 6-10, 2006.
15. *Session Organizer*, **Data Mining Session, International Conference on Statistics, Combinatorics, Mathematics, and Applications – 12th Annual Conference of the Forum for Interdisciplinary Mathematics (FIM XII)**, Auburn University, December 2-4, 2005.
14. *Member*, **Committee on the Award of the Outstanding Statistical Application**, a committee of the American Statistical Association, 2002 – 2005.
13. *Session Chair*, **M2005 Data Mining Technology Conference**, October 24-25, 2005.
12. *Session Chair*, **Data Mining Session**, SAS Users Group International (SUGI) 30 SAS Users Group, April 11-13, 2005.
11. *Associate Editor*, **Evidenced-Based Preventive Medicine**, 2004 – 2005.
10. *Co-chair*, **SAS M2004 Data Mining Technology Conference**, October 18-19, 2004. ([www.sas.com/m2004](http://www.sas.com/m2004)). This was the largest data mining conference in the world in 2004. See the UA press release on the IBI web site.
9. *Session Chair*, **M2003 SAS Data Mining Technology Conference**, October 13-15, 2003.

8. *Session Organizer* and Chair, **The Logistics of Bioinformatics, 2001 Biometrics Society Meetings**, Charlotte, North Carolina, March 25-28, 2001.
7. Member, **National Task Force, Research/Decision Support Analyst Task Force**, American Health Information Management Association, 1999 – 2000.
6. *Member*, Technical Advisory Panel, **Early Identification of Children at-Risk for Special Education**, Student Initiated Research Project, funded by U.S. Department of Education, Division of Special Education and Rehabilitative Services, 1994 – 1996.
5. *Local Arrangements Chairman*, **1995 Biometrics Society Meetings held in Birmingham, Alabama**, March 26-29, 1995.
4. *Session Organizer*, for sessions on statistical methodologies for the clustering of health data at the **Third General Meeting of the International Environmetrics Society**, Helsinki University of Technology, Espoo, Finland, August 17-21, 1992.
3. *President*, **Alabama Chapter of the American Statistical Association**, 1993 – 1995.
2. *Vice-President*, **Alabama Chapter to the American Statistical Association**, 1991 – 1993.
1. *Founding Member*, **Mississippi Chapter of the American Statistical Association**, Chartered April, 1987.

#### **ACTIVITIES RELATED TO SERVICE, SCHOOL, AND COMMUNITY: Current**

##### **Appointments**

15. *Member*, **Search Committee for Dean of Social Work**, 2013- Present
14. *Member*, **Mediation Committee**, The University of Alabama, 2013-Present
13. *Board Member*, **New Testament Textual Studies Foundation**, New Orleans Baptist Theological Seminary, New Orleans, Louisiana, 2011-Present.
12. *Member*, **Rotary International**, Tuscaloosa, Alabama, 2006-Present.
11. *Faculty Advisor*, **The Anderson Society**, The University of Alabama, Tuscaloosa, Alabama 2010 – 2012.
10. *Faculty Advisor*, **Sigma Phi Fraternity**, The University of Alabama, Tuscaloosa, Alabama 2010 – Present.
9. *Faculty Advisor*, **Phi Beta Lambda**, The University of Alabama, Tuscaloosa, Alabama, 2010 – Present.
8. *Member*, **Conflict of Interest Committee**, The University of Alabama, Tuscaloosa, Alabama 2010 – 2012.
7. *Member*, **Information Technology Governance Committee**, The University of Alabama, Tuscaloosa, Alabama 2009 – Present
6. *Member*, **University Intellectual Property Standing Committee**, The University of Alabama, Tuscaloosa, Alabama, 2009 – 2011.
5. *Member*, **Interim Program Coordinating Council**, The University of Alabama, Tuscaloosa, Alabama, 2009 – Present.
4. *Member*, **Council of Assistant and Associate Deans**, The University of Alabama, Tuscaloosa, Alabama, 2007 – Present.

3. *Faculty Associate, Center for Mental Health and Aging*, The University of Alabama, Tuscaloosa, Alabama, 2003 – Present.
2. *Member, Executive Committee*, Center for Mental Health and Aging, The University of Alabama, Tuscaloosa, Alabama, 2003 – Present.
1. *Member, Applied Statistics Committee*, The University of Alabama, Tuscaloosa, Alabama, 2001– Present.

#### **Former Appointments (The University of Alabama)**

17. *Member, Search Committee for Vice President for Research*, The University of Alabama, Tuscaloosa, Alabama, 2013.
16. *Member, Search Committee for Vice President for Research*, The University of Alabama, Tuscaloosa, Alabama, 2010.
15. *Member, Search Committee for Dean of Nursing*, The University of Alabama, Tuscaloosa, Alabama, 2013.
14. *Member, Search Committee for Dean of Honors College*, The University of Alabama, Tuscaloosa, Alabama, 2010.
13. *Member, Search Committee for Associate Dean for Research*, College Human Environmental Sciences, The University of Alabama, Tuscaloosa, Alabama, 2010.
12. *Member, Search Committee for Vice President for Research*, The University of Alabama, Tuscaloosa, Alabama, 2009.
11. *Co-Chair, United Way Campaign*, The University of Alabama, Tuscaloosa, Alabama, 2008
10. *Member, Search Committee for Director of Institutional Research*, The University of Alabama, Tuscaloosa, Alabama, 2007.
9. *Member, Search Committee for Director of Center for Mental Health and Aging*, The University of Alabama, Tuscaloosa, Alabama, 2007.
8. *Member, Masters Committee*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama, 2005 – 2006.
7. *Member, Professorship/Fellowship Search Committee*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama, 2004 – 2005.
6. *Member, Leadership Awards Committee*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama, 2003 – 2004.
5. *Member, Search Committee for University Registrar in The University of Alabama*, Tuscaloosa, Alabama, 2005.
4. *Organizer, University of Alabama/SAS Business Intelligence Symposium*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama, October 31, 2003.
3. *Member, Search Committee for Director of Institutional Research*, The University of Alabama, Tuscaloosa, Alabama, 2004.
2. *Member, Technology Committee*, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama, 2003 – 2005.
1. *Member, Promotion and Tenure Committee*, Department of Information Systems, Statistics, and Management Science, The University of Alabama, Tuscaloosa, Alabama, 2001 – 2008.

### Former Appointments (The University of Alabama at Birmingham)

58. *Senator, Faculty Senate*, The University of Alabama at Birmingham, Birmingham, Alabama, 2001.
57. *Alternate Senator, Faculty Senate*, The University of Alabama at Birmingham, Birmingham, Alabama, 1999 – 2001.
56. *Member, Decision Support Committee*, Office of the Provost, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 2001.
55. *Member, Student Information Systems Management Advisory Committee*, Institutional Studies and Services, Office of the Provost, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 2001.
54. *Member, UAB Knowledge Discovery and Data Mining Research Group*, Department of Computer Sciences, The University of Alabama at Birmingham, Birmingham, Alabama, 1996 – 2001.
53. *Member, Section on Medical Informatics*, Division of Internal Medicine, Department of Medicine, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama, 1996 – 2001.
52. *Member, Board of Internal Advisors, Center for Educational Accountability*, School of Education, The University of Alabama at Birmingham, Birmingham, Alabama, 1995 – 2001.
51. *Member, Graduate Faculty*, The University of Alabama at Birmingham, Birmingham, Alabama, 1988 – 2001.
50. *Member, Dean Search Committee for School of Health Related Professions*, The University of Alabama at Birmingham, Birmingham, Alabama, 2000.
49. *Chairman, Faculty Affairs Committee for School in Health Related Professions*, The University of Alabama at Birmingham, Birmingham, Alabama, 1999 and 2000.
48. *Member, Faculty Affairs Committee for School in Health Related Professions*, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 2000.
47. *Member, Search Committee for Program Director in Health Services Administration*, Department of Health Service Administration, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, 1999 – 2000.
46. *Member, Search Committee for Faculty Positions in Health Services Administration*, Department of Health Service Administration, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, 1999 – 2000.
45. *Member, UAB Enterprise Data Warehouse Assessment Project*, Office of Financial Affairs, The University of Alabama at Birmingham, Birmingham, Alabama, 1999 – 2000.
44. *Member, Information Technology Assessment Group (ITAG)*, UAB Health Information Services, University Hospital, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 2000.
43. *Member, Clinical Messaging Focus Group*, UAB Health Information Services, University Hospital, The University of Alabama at Birmingham, Birmingham, Alabama, 2000.
42. *Member, Master of Science in Health Administration Program Committee*, Department of Health Services Administration, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 2000.
41. *Member, Learning Resource Center Committee*, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, 1997 – 1999.

40. *Member, Curriculum Task Force Committee*, Department of Health Services Administration, School of Health Related Professions, The University of Alabama at Birmingham, 1997 – 2000.
39. *Member, IAIMS Committee*, The University of Alabama at Birmingham, Birmingham, Alabama, 1996 – 2000.
38. *Member, Graduate Curriculum Subcommittee, Academic Affairs Committee*, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, 1997 – 1999.
37. *Member, University Grievance Committee, School of Public Health Representative*, The University of Alabama at Birmingham, Birmingham, Alabama, 1995 – 1997 (*Chaired* Special Committee, 1996).
36. *Member, Master of Science in Health Administration Curriculum Review Committee*, Department of Health Services Administration, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 1999.
35. *Member, Master of Science in Health Administration Program Committee*, Department of Health Services Administration, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 1999.
34. *Member, Graduate Council*, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 1999.
33. *Chairman, IAIMS Organizational Dynamics Workgroup, IAIMS Committee*, The University of Alabama at Birmingham, Birmingham, Alabama, 1998 – 2000.
32. *Member, Search Committee for Health Informatics Faculty in Department of Health Services Administration*, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, 1997.
31. *Examiner, Ph.D. Exam in Epidemiology*, Department of Epidemiology, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, December 1996.
30. *Member, Cancer Prevention and Control Program*, Comprehensive Cancer Center, The University of Alabama at Birmingham, Birmingham, Alabama, 1995 – 1997.
29. *Member, Search Committee for Faculty Position in Department of Human Studies*, School of Education, The University of Alabama at Birmingham, Birmingham, Alabama, 1996.
28. *Member, Classroom Technology Committee*, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, 1995 – 1996.
27. *Member, Academic Health Center Research Advisory Group*, School of Public Health Research Advisory Committee, The University of Alabama at Birmingham, Birmingham, Alabama, 1995 – 1996.
26. *Member, Seminar Series Committee*, Department of Biostatistics, The University of Alabama at Birmingham, Birmingham, Alabama, 1995 – 1996.
25. *Member, Student Recruitment Committee*, Department of Biostatistics, The University of Alabama at Birmingham, Birmingham, Alabama, 1994 – 1996.
24. *Member, Inner-City Committee*, Birmingham Baptist Association, 1994 – 1996.
23. *Member, Search Committee – Faculty Position, Department of Epidemiology*, The University of Alabama at Birmingham, Birmingham, Alabama, 1994 – 1995. 22. *Committee Member, State of Alabama Superintendent of Education Task Force in Special Education*, 1994 – 1995.
21. *Judge, 44<sup>th</sup> International Science and Engineering Fair*, Birmingham-Jefferson Civic Center, Birmingham, Alabama, May

- 11, 1994.
20. *Member, Database Working Group for UAB Titusville 2000 Project*, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama, 1993 – 1996.
  19. *Member, UAB Titusville 2000 Resource Development Committee*, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama, 1993 – 1996.
  18. *Member, Social Well-being Working Group for UAB Titusville 2000 Project*, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama, 1993 – 1996.
  17. *Member, Surveillance Committee of the Alabama Prevention Committee for the Alabama Office of Prevention*, Civitan International Research Center, The University of Alabama at Birmingham, Birmingham, Alabama, 1992 – 1996.
  16. *Member, Ad Hoc Committee on Biostatistics Graduate Programs*, Department of Biostatistics, The University of Alabama at Birmingham, Birmingham, Alabama, 1992 – 1996.
  15. *Member, IAIMS Committee*, The University of Alabama at Birmingham, Birmingham, Alabama, 1992 – 1994.
  14. *Member, Self Study The University of Alabama at Birmingham SACs Accreditation Committee, (Library Subcommittee)*, The University of Alabama at Birmingham, Birmingham, Alabama 1992 – 1993.
  13. *Member, Office of Information Management and Instruction Coordinating Committee*, Joint Schools of Health Related Professions, Nursing, and Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, 1992 – 1993.
  12. *Member, Search Committee – Faculty Position*, Department of Biostatistics and Biomathematics, The University of Alabama at Birmingham, Birmingham, Alabama, 1992 – 1993.
  11. *Member, Medical Center Computer Committee*, The University of Alabama at Birmingham, Birmingham, Alabama, 1991 – 1993.
  10. *Member, Search Committee – Faculty Position*, Department of Biostatistics and Biomathematics, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, 1991.
  9. *Chairman, Seminar Series Committee*, Department of Biostatistics and Biomathematics, The University of Alabama at Birmingham, Birmingham, Alabama, 1990 – 1993.
  8. *Member, Admissions and Promotions Committee*, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, 1990 – 1993.
  7. *Member, Ph.D. Committee*, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, 1990 – 1993.
  6. *Member, Computer Education and Information Management Committee*, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, 1990 – 1993.
  5. *Member, Medical Center Learning Technologies Committee*, The University of Alabama at Birmingham, Birmingham, Alabama, 1990 – 1992.
  4. *Member, Graduate Coordinating Committee*, Department of Mathematics and Statistics, Mississippi State University, 1987 – 1988.
  3. *Member, Computer Advisory Committee*, Department of Mathematics and Statistics, Mississippi State University, 1987 – 1988.
  2. *Member, Statistics Committee*, Mississippi State University, 1986 – 1988.
  1. *Associate Member, Graduate Faculty*, Mississippi State University, 1986 – 1988.

## REVIEW COMMITTEES AND SITE VISITS:

42. *Member, Review Panel*, Grant Mechanism, ZRG1 HDM-C, National Center for Scientific Review, National Institutes of Health, October 7, 2010.
41. *Member, Review Panel*, Health Research Program, Nova Scotia Research Foundation, May 30, 2010
40. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, March 26, 2010.
39. *Chair, Review Panel*, Grant mechanism, ZRG1 HDM-G 04M, National Center for Scientific Review, National Institutes of Health, March 24, 2010.
38. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, February 18-19, 2010.
37. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: R15 Mechanism,” National Center for Research Resources, National Institutes of Health, December 11, 2009.
36. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, June 4-5, 2009.
35. *Member, Review Panel*, “Special Emphasis Panel: Biomedical Informatics Research Network Coordinating Center (BIRN),” National Center for Research Resources, National Institutes of Health, February 1, 2009.
34. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, October 2-3, 2008.
33. *Member, Review Panel*, “Special Emphasis Panel: Biomedical Informatics Research Network Coordinating Center (BIRN),” National Center for Research Resources, National Institutes of Health, July 22, 2008.
32. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, June 11-12, 2008.
31. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, February 11-12, 2008.
30. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, October 12, 2007.
29. *Member, Review Panel*, “Research Methodology; Quality Measurement & Effectiveness; Health Care Costs & Utilization Panel,” Department of Veterans Affairs (VA), August 7-8, 2007.
28. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, March 15-16, 2007.

27. *Member, Review Panel*, “Research Methodology; Quality Measurement & Effectiveness; Health Care Costs & Utilization Panel,” Department of Veterans Affairs (VA), March 6-8, 2007.
26. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, October 5-6, 2006
25. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, March 30-31, 2006.
24. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, March 10-11, 2005.
23. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, September 28-29, 2004.
22. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, February 10-11, 2003.
21. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel: Technology Development for Biomedical Applications,” National Center for Research Resources, National Institutes of Health, October 7-8, 2002.
20. *Member, Review Panel*, “Tobacco-related Disease Research and Policy Program Review Committee,” University of California at Los Angeles, Office of the President, May 18-19, 2002.
19. *Member, Review Panel*, “Biomedical Research Technology Special Emphasis Panel,” National Center for Research Resources, National Institutes of Health, February 26, 2002.
18. *Member, Review Panel*, “Program Project Review – Basic and Preclinical Review Group,” National Cancer Institute, National Institutes of Health, February 25, 2002.
17. *Member, Review Panel*, “Improving Patient Safety: Health Systems Reporting, Analysis, and Research Demonstration Review,” Agency for Healthcare Research and Quality (AHRQ), Department of Health and Human Services, August 6-7, 2001.
16. *External Reviewer*, Proposal for Master of Science Degree in Health Care Informatics, University of Wisconsin- Milwaukee, at the request of the Assistant Vice Chancellor, University of Wisconsin-Milwaukee, February 2001.
15. *Member, Review Panel*, Subcommittee C – Basic & Preclinical R01, National Cancer Institute Initial Review Group, National Cancer Institute, Department of Health and Human Services, February 7-9, 2001.
14. *Member, Review Panel*, Demonstration & Education Research Grants (R-18), Special Emphasis Panel, National Institutes of Health, Department of Health and Human Services, November 2, 2000.
13. *Member, Review Panel*, International Collaborative HIV/STD Prevention Trial, Special Emphasis Review Committee, National Institute of Mental Health, Department of Health and Human Services, July 26, 1999.
12. *Member, Review Panel*, Special Emphasis Review Committee, National Institute of Mental Health, Department of Health and Human Services, April 14, 1999.
11. *Member, Review Panel*, Special Review Panel for Program Project, P01 Application, for National Cancer Institute Review Group/Subcommittee E: Prevention and Control, The National Cancer Institute, Department of Health and Human Services, February 22-24, 1999.
10. *Member, Review Panel*, Review Committee – R13 Applications, The National Cancer Institute, Department of



- Health and Human Services, February 24, 1999.
9. *Member, Review Panel, Cancer Center Core Grant Review Committee, The National Cancer Institute, Department of Health and Human Services, September 14-17, 1998.*
  8. *Member, Review Panel, Clinical AIDS and Immunology Review Committee Meeting, Department of Health and Human Services, March 10-11, 1998.*
  7. *Member, Review Panel, Program Project Application: A Novel Approach to Chemoprevention of Cancer in Rodents, National Cancer Institute, February 20-22, 1997.*
  6. *Member, Special Emphasis Panel, review of RFA for Ischemic Heart Disease in Blacks, National Heart, Lung, and Blood Institute, July 19-20, 1995.*
  5. *Member, Special Emphasis Panel, review of RFA for Behavioral Interventions for Control of Tuberculosis, National Heart, Lung, and Blood Institute, June 11-13, 1995.*
  4. *Member, Special Review Committee, Demonstration and Education Research Grant applications, National Heart, Lung, and Blood Institute, March 1-2, 1994.*
  3. *Member, Special Review Committee, Demonstration and Education Research Grant applications, National Heart, Lung, and Blood Institute, February 19-20, 1992.*
  2. *Member, Clinical Trials Review Committee, R18 Grant applications, Special Review Committee, NIH, National Heart, Lung, and Blood Institute, October 23-24, 1991.*
  1. *Member, Head Start/Public School Early Childhood Transition Demonstration Projects Grant Applications Review, Administration on Children, Youth, and Families, September 3-6, 1991.*

#### **REFEREED FOR THE FOLLOWING JOURNALS:**

*American Journal of Industrial Hygiene*  
*American Journal of Medicine*  
*American Statistician*  
 Ad Hoc reviewer, American Medical Informatics Association Fall Symposium 1998  
 Ad hoc reviewer for ACM Symposium on Applied Computing, SAC 2005  
 Ad hoc reviewer for ACM Symposium on Applied Computing, SAC 2004  
 Ad hoc reviewer for ACM Symposium on Applied Computing, SAC 2003  
 Ad hoc reviewer for *Decision Support in Medicine, Special Issue on Decision Support*, 2005  
 Ad hoc reviewer for *Decision Science Institute Annual Meeting*, 2007  
*Annals of Epidemiology* *FEBS Letters*  
*Biometrics & Biostatistics International Journal*  
*Communications in Statistics Decision Sciences*  
*Drug Investigation*  
*IGI Global Journal*  
*IIE Transactions on Healthcare Systems Engineering*  
*Inderscience Publishers*  
*Institute of Electronic and Electric Engineers*  
*International Journal of Information Systems and Supply Chain Management*  
*International Journal of Telemedicine and Applications*  
*Journal of the American Medical Association*  
*Journal of General Internal Medicine* *Journal of American Medical Association* *Journal of the Applied Gerontology*  
*Journal of Pharmacy Practice*  
*Journal of Statistical Computation and Simulation*  
*Medical Care* *Psychological Methods*  
*Statistics in Medicine*

## PUBLICATIONS:

### Manuscripts – Published (Refereed Journals)

93. Anderson, B., **Hardin, J.M.**, Herbert, D., Olinsky, A., “Time Series Data Mining: A Retail Application.” **International Journal of Business Analytics**, 1: 4, 52-70, 2014
92. Anderson, B., **Hardin, J.M.**, “Modified Logistic Regression using the EM Algorithm for Reject Inference.” **International Journal of Data Analysis Techniques and Strategies**, 5: 4, 359-373, 2013.
91. Windsor, R., Woodby, L., Miller, T., and **Hardin, J.M.**, “Effectiveness of Smoking Cessation and Reduction in Pregnancy Treatment (SCRIPT) Methods in Medicaid-Supported Prenatal Care: Trial III,” **Health Education & Behavior**, 38: 4, 412-422, August 2011.
90. Zheng, S., **Hardin, J.M.**, and Gupta, A.K., “The inverse problem of multivariate and matrix-variate skew normal distributions,” **Statistics: A Journal of Theoretical and Applied Statistics**, 46: 3, 361-371, June 2012.
89. Watters, A.J., Hanninen, P.V., and **Hardin, J.M.**, “Developing a Community-Based Research Network for Interdisciplinary Science: The Alabama Entrepreneurial Research Network,” **Journal of Community Engagement and Scholarship**, 14: 2, June 2012.
88. Raja, U., McManus, D., and **Hardin, J.M.**, “Rural Healthcare Information Systems: A Collaborative Model,” **International Journal of Emerging Technologies**, February, 2011.
87. Miller, T., Windsor, R.A., Woodby, L., and **Hardin, J.M.**, “Effectiveness of Smoking Cessation and Redirection in Pregnancy Treatment (SCRIPT) Methods in Medicaid Supported Prenatal Care: SCRIPT Trial III,” **Health Education & Behavior**, 1-11, Spring, 2011.
86. Olson, E.D., Anderson, B., **Hardin, J.M.**, “The analysis of health care coverage through transition matrices using a one factor model,” **Journal of Data Science**, 8: 4, 619-630, October 2010.
85. Norton, M.J., Allen, R.S., Snow, A.L., **Hardin, J.M.**, and Burgio, L.D., “Predictors of Need-driven Behaviors in Nursing Home Residents with Dementia and Associated Certified Nursing Assistant Burden,” **Aging & Mental Health**, 14: 3, 303-309, April 2010.
84. Anderson, B., **Hardin, J.M.**, Alexander, D., Meleth, S., Grizzle, W.E., and Manne, U., “Comparison of the Predictive Qualities of Three Prognostic Models Built on a Molecular Biomarker Dataset of Colorectal Cancer,” **Frontiers in Bioscience**, (E2), 665-672, January 2010.
82. Ford, B.K., Shino, K.J., Sander, E., and **Hardin, J.M.**, SBIR (Small Business Innovation Research) and STTR (Small Business Technology Transfer) Programs: The Private Sector, Public Sector and University Trifecta, **Journal of Research Administration**, (39), 58-77, 2008.
81. Raja, U., Mitchell, T., Day, T., and **Hardin, J.M.**, “Text Mining in Healthcare: Application and Opportunities,” **Journal of Health Information Systems**, (22), 52-56, 2008.
80. Meleth, S., Chatla, C., Katkooi, V.R., Anderson, B.S., **Hardin, J.M.**, Jhala, N.C., Bartolucci, A., Grizzle, W.E., and Manne, U., “Comparison of Predicted Probabilities of Proportional Hazards Regression and Linear Discriminant Analysis Methods Using a Colorectal Cancer Molecular Biomarker Database,” **Cancer Informatics**, (2), 125-132, 2007.
79. Burgio, L.D., Park, N.S., **Hardin, J.M.**, and Sun, F., “A Longitudinal Examination of Agitation and Resident Characteristics in the Nursing Home,” **The Gerontologist**, (47), 642-649, 2007.
78. **Hardin, J.M.**, Anderson, B.S., Woodby, L.L., Crawford, M., and Russell, T., “Using an Empirical Binomial Hierarchical Bayesian Model as an Alternative to Analyzing Data from Multi-Site Studies,” **Evaluation Review** (32), 143-156, 2008.

77. Macchiarini, P., Altmayer, M., Go, T., Walles, T., Schulze, K., Wildfang, I., Haverich, A., **Hardin, J.M.**, and the Hannover Interdisciplinary Intrathoracic Tumor Task Force Group, "Technical Innovations of Carinal Resection for Nonsmall-Cell Lung Cancer," **Annals of Thoracic Surgery**, (82), 1989-1997, 2006.
76. Wall, T.C., Senicz, E., Evans, H.H., Woolley, A., and **Hardin, J.M.**, "Hearing Screening Practices Among a National Sample of Primary Care Pediatricians," **Clinical Pediatrics**, (45), 559-566, 2006.
75. Fisher, S.E., Burgio, L.D., Thorn, B.E., and **Hardin, J.M.**, "Obtaining Self-report Data from Cognitively Impaired Elders: Methodological Issues and Clinical Implications for Nursing Home Pain Assessment," **The Gerontologist** (46), 81-88, 2006.
74. Allen, R.S., Burgio, L.D., **Hardin, J.M.**, Fisher, S., and Shuster, J., "Behavioral Characteristics of Agitated Nursing Home Residents with Dementia at the End of Life," **The Gerontologist**, (45), 661-666, 2005.
73. Halloran, D.R., Wall, T.C., Evans, H.H., **Hardin, J.M.**, and Woolley, A., "Hearing Screening at Well-Child Visits," **Archives of Pediatrics and Adolescent Medicine**, (159), 949-955, 2005.
72. **Hardin, J.M.**, Woodby, L.L., Crawford, M.A., Windsor, R.A., and Miller, T.M., "Data Collection and Management in a Multi-Site Effectiveness Project: The SCRIPT Study," **Public Health Nursing**, 22(4), 347-351, 2005.
71. Crawford, M.A., Woodby, L.L., Russell, T.V., Turner, T.J., **Hardin, J.M.**, and Harrington, T.M., "Tobacco Use Assessment and Counseling Practices Among Alabama Primary Care Physicians," **Quality in Primary Care**, 13:163-70, 2005.
70. Roff, L.L., Burgio, L.D., Gitlin, L., Nichols, L., Champlin, W., and **Hardin, J.M.**, "Positive Aspects of Alzheimer's Caregiving: The Role of Race," **Journal of Gerontology: Psychological Sciences**, 59(4), 185-190, 2004.
69. Burgio, L.D., Fisher, S. E., Fairchild, J. K., Scilley, K., and **Hardin, J.M.**, "Quality of Care in the Nursing Home: Effects of Staff Assignment and Work Shift," **The Gerontologist**, 44(3), 368-377, 2004.
68. Wall, T.C., Marsh-Tootle, W., Evans, H.H., Fargason, C.A., Ashworth, C.S., and **Hardin, J.M.**, "Compliance with Vision-Screening Guidelines Among a National Sample of Pediatricians," **Ambulatory Pediatrics**, (2), 449-455, 2002.
67. Berner, E.S., McGowan, J.J., **Hardin, J.M.**, Spooner, S.A., Raszka, W.V., and Berkow, R.L., "A Model for Assessing Information Retrieval and Application Skills of Medical Students," **Academic Medicine**, 77: 547-551, 2002.
66. Hill, A.E., Jones, W.T., Hyatt, R.M., and **Hardin, J.M.**, "Parallel Automated Knowledge Acquisition of Case- Based Semantic Networks from Relational Databases," **Journal of Integrated Design and Process Science**, (10), 375-394, 2001
65. Burgio, L.D., Scilley, K., **Hardin, J.M.**, and Hsu, C., "Temporal Patterns of Disruptive Vocalization in Elderly Nursing Home Residents," **International Journal of Geriatric Psychiatry**, 16, 1-9, 2001.
64. Burgio, L.D., Butler, F.R., Roth, D.L., **Hardin, J.M.**, Hsu, C., and Ung, K., "Agitation in Nursing Home Residents: The Role of Gender and Social Context," **International Psychogeriatrics**, 12, 495-511, 2001.
63. Cheng, H., Macaluso, M., and **Hardin, J.M.**, "Validity and Coverage of Estimates of Relative Accuracy," **Annals of Epidemiology**, 10(4): 251-260, 2000.
62. Windsor, R.A., Woodby, L.L., Miller, T.M., **Hardin, J.M.**, Crawford, M.A., and DiClemente, C.C., "Effectiveness of AHCPR Guidelines and Patient Education Methods for Pregnant Smokers in Medicaid Maternity Care," **American Journal of Obstetrics and Gynecology**, 182(1): 68-74, 2000.

61. Caufield, P.W., Dasanayake, A.P., Li, Y., Pan, Y., Hsu, C., and **Hardin, J.M.**, "Natural History of Streptococcus Sanguinis in the Oral Cavity of Infants: Evidence for a Discrete Window of Infectivity," **Infection and Immunity**, 68(7): 4018-4023, 2000.
60. Rogers, J.C., Holm, M.B., Burgio, L.D., Grasnieri, E., Hsu, C., **Hardin, J.M.**, and McDowell, B.J., "Improving Morning Care Routines of Nursing Home Residents with Dementia," **Journal of the American Geriatrics Society**, 47(9), 1049-1057, 1999.
59. Nick, T.G. and **Hardin, J.M.**, "Regression Modeling Strategies: An Illustrative Case Study from Medical Rehabilitation Outcomes Research," **The American Journal of Occupational Therapy**, 53(5), 459-470, 1999.
58. **Hardin, J.M.**, Miller, P., Whelton, A., and Bellile, S., "A New Role for HIM in the Knowledge Economy," **Journal of American Health Information Management Association**, 70(7), 56-59, 1999.
57. **Hardin, J.M.**, "The Principle of Intention to Treat Analysis in Clinical Studies: Its Use and Controversies," **Journal of Pharmacy Practice**, XI, 3, 18, 1998.
56. Brossette, S.E., Sprague, A.P., **Hardin, J.M.**, Waites, K.B., Jones W.T., and Moser, S.A., "Association Rules and Data Mining in Hospital Infection Control and Public Health Surveillance," **Journal of the American Medical Informatics Association**, 5: 373-381, 1998.
55. Burgio, K.L., Locher, J.L., Goode, P.S., **Hardin, J.M.**, McDowell, B.J., Dombrowski, M., and Candib, D., "Behavioral Versus Drug Treatment for Urge Urinary Incontinence in Older Women: A Randomized Controlled Trial," **Journal of American Medical Association**, 280(23): 1995-2000, 1998.
54. Cotter, E.M., Burgio, L.D., Hsu, C., and **Hardin, J.M.**, "Behavioral Microanalysis of Helping Interactions Between Mothers and Adult Children with Mental Retardation," **Journal of Adult Development**, 5(4): 231-238, 1998.
53. Sanderson, B.K., Raczynski, J.M., Cornell, C., **Hardin, J.M.**, and Taylor, H.A., Jr., "Ethnic Disparities in Patient Recall of Physician Recommendations of Diagnostic and Treatment Procedures for Coronary Disease," **American Journal of Epidemiology**, 148(8): 741-9, 1998.
52. Morgan, S.L., Vaughn, W.H., Thompson, G., Hsu, C., and **Hardin, J.M.**, "The Use of an Enteral Expert System in the Prescription of Enteral Formulas in a University Hospital," **Applied Nutritional Investigation**, 13: 196-201, 1997.
51. Osterkamp, L., Mathews, R.M., Burgio, L.D., and **Hardin, J.M.**, "Social Workers Acceptability Ratings of Behavioral Treatments and Pharmacotherapy for the Management of Geriatric Behavior Problems," **Educational Gerontology**, 23: 425-435, 1997.
50. Ritchie, C.S., Burgio, K.L., Locher, J.L., Cornwell, A., Thomas, D., **Hardin, J.M.**, and Redden, D., "Nutritional Status of Urban, Homebound Older Adults," **American Journal of Clinical Nutrition**, 66(4): 815-8, 1997.
49. Williams, M.A., LaMarche, J.A., Smith, R.L., Fielstein, E.M., **Hardin, J.M.**, McGiffin, D.C., Zorn, G.L., Kirklin, J.K., and Boll, T.J., "Neurocognitive and Emotional Functioning in Lung Transplant Candidates: A Preliminary Study," **Journal of Clinical Psychology in Medical Settings**, 4: 79-90, 1997.
48. Burgio, K.L., Locher, J.L., Ives, D.G., **Hardin, J.M.**, Newman, A.B., and Kuller, L.H., "Nocturnal Enuresis in Older Adults," **Journal of the American Geriatrics Society**, 44: 139-143, 1996.
47. Burgio, K.L., Locher, J.L., Zyczynski, H., **Hardin, J.M.**, and Singh, K., "Urinary Incontinence during Pregnancy in a Racially Mixed Sample: Characteristics and Predisposing Factors," **International Urogynecology Journal & Pelvic Floor Dysfunction**, 7(2): 69-73, 1996.
46. Markovitz, J.H., Raczynski, J.M., Lewis, J.F., Chesney, M., Chettur, V., **Hardin, J.M.**, and Johnson, E., "The Relationship of Left Ventricular Mass and Cardiovascular Reactivity to Physical and Psychological Stress in the CARDIA Study," **American Journal of Hypertension**, 9(9): 915-923, 1996.
45. Burgio, L.D., Scilley, K., **Hardin, J.M.**, Hsu, C., and Yancey, J., "Environmental White Noise: An Intervention for Verbally Agitated Nursing Home Residents," **Journal of Gerontology: Series B, Psychological Sciences**

**& Social Sciences**, 51(6): P364-73, 1996.

44. Bild, D., Burke, G., Smith, D., Lewis, B., and **Hardin, J.M.**, "Correlates and Predictors of Weight Loss in Young Adults: The CARDIA Study," **International Journal of Obesity and Related Metabolic Disorders**, 20: 47-55, 1996.
43. **Hardin, J.M.**, Willers, J.L., and Wagner, T.L., "Non-Parametric Multiple Comparisons of Survivorship Distributions," **Journal of Economic Entomology: Biostatistics**, 89 (3): 715-721, 1996.
42. Burgio, L.D., **Hardin, J.M.**, Sinnott, J., Janosky, J., and Hohman, M. J., "Nurses Acceptance of Behavioral Treatments and Pharmacotherapy for Behavioral Disturbances in Older Adults," **Applied Nursing Research**, 8(4): 174-181, 1995.
41. Waller, L.A., Turnbull, B.W., and **Hardin, J.M.**, "On Obtaining Distribution Functions by Numerical Inversion of Characteristic Functions with Applications," **The American Statistician**, 49 (4): 346-350, 1995.
40. Lamartiniere, C.A., Moore, J.B., Brown, N.M., Thompson, R., **Hardin, J.M.**, and Barnes, S., "Genistein Suppresses Mammary Cancer in Rats," **Carcogenesis**, 16: 2833-2840, 1995.
39. Gammon, R.B., Shin, M.S., Grover, R.H., **Hardin, J.M.**, Hsu, C., and Buchalter, S.E., "Clinical Risk Factors for Pulmonary Barotrauma: A Multivariate Analysis," **The American Journal of Respiratory and Critical Care Medicine**, 152: 1235-1240, 1995.
38. Paczek, A., Gardin, J.M., **Hardin, J.M.**, Anton-Culver, H., Kurosaki, T., Hsu, C., and Bild, D.E., "Comparison of M-Mode and Two-Dimensional Echocardiographic Algorithms Used to Estimate Left Ventricular Mass: The CARDIA Study," **Journal of the American Society of Echocardiography**, 8 (6): 780-792, 1995.
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22. Anderson, B. and **Hardin, J.M.**, *Social Media Credit Scoring* in Encyclopedia of Business Analytics and Optimization, Editors, Wang, J. Montclair, NJ, 2016.
21. White, S., **Hardin, J.M.**, *Research and Decision Support* in Ethical Health Informatics, Editor, Harmon, L.B., Cornelius, F.H., Jones and Bartlett Learning, LLC: Burlington, MA, 2017

20. Anderson, B., **J.M. Hardin**, Davis, C. M., *An Introduction to Data and Text Mining in Healthcare* in Healthcare Informatics: Improving Efficiency through Technology, Analytics, and Management, Editor, Kudyba, Stephan P., CRC Press, and Taylor & Francis Group: Boca Raton, FL, 2016
19. Anderson, B., and **Hardin, J.M.**, *Data Analytics* in Ethical Challenges in the Management of Health Information, Editor, Cornelius, F., Jones & Bartlett Learning, LLC: Burlington, MA, 2015.
18. White, S., **Hardin, J.M.**, *Research and Decision Support* in Ethical Informatics: Challenges and Opportunities, Editors, Cornelius, F., Harman, L.B., Jones & Bartlett Learning, LLC: Burlington, MA, In press, 2015.
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10. **Hardin, J.M.** and Raja, U., *Expert Systems and Decision Support*, Chapter 19, in Health Information Management: Concepts, Principles, and Practice, 3<sup>rd</sup> Edition, edited by Eichenwald, S. and LaTour, K. AHIMA: Chicago, IL, 2009.
9. Davis, C.M., **Hardin, J.M.**, Bohannon, T. and Oglesby, J., *Data Mining Applications in Higher Education*, in Data Mining Methods and Applications, Editors, Lawrence, K.D., Kudyba, S. and Klimberg, R.K., Auerbach Publications, Taylor & Francis Group: Boca Raton, FL, 2008.
8. **Hardin, J.M.**, Anderson, B., Lutz, T., Stewart, D., *Overview of Analytical Methods for Money Laundering*, in Money Laundering, Financing Terrorism, and Suspicious Activity, Author/Editor, Gup, B.E., NOVA Publishing. Carbondale, IL, 2006.
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Management of Health Information, Editor, Harman, L., Aspen Publishing, 113-130. Gaithersburg, MD, 2001.

2. Allison, J.J. and **Hardin, J.M.**, *Outcomes Analysis: The Role of EMRS and Clinical Databases*, in Electronic Medical Records: A Guide for Administrators and Clinicians, Editor, Carter J, American College of Physicians, 213-228 Philadelphia 2001.
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#### Manuscripts – Refereed Conference Proceedings

13. Anderson, B. and **Hardin, J.M.**, Modified Logistic Regression Using the EM Algorithm for Reject Inference, Credit Scoring & Credit Control XI: Edinburgh, Scotland, August 28-30, 2009.
12. Chhieng, D., **Hardin, J.M.**, Anderson, B., and Manne, U., Predicting 5-year survival of colorectal carcinoma patients using data mining methods. American Medical Informatics Association (AMIA) Symposium Proceedings, November 10-14, 2007.
11. **Hardin, J.M.** and Conerly, M.D., The University of Alabama and SAS® Data Mining Certificate Partnership. SAS SUGI Proceedings 30, Philadelphia, PA, April 10-13, 2005.
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1. Willers, J.L., Boykin, D.L., **Hardin, J.M.**, Wagner, T.L., Olson, R.L., and Williams, M.R., A Simulation Study of the Relationship between the Abundance and Spatial Distribution of Insects and Selected Sampling Schemes. Proceedings of the Second Annual Kansas State University Conference on Applied Statistics in Agriculture. Edited by George A. Milliken and J.R. Schwenke, 33-45, 1990.

#### Manuscripts – Un-refereed Proceedings

7. Anderson, B.S., **Hardin, J.M.**, Conerly, M.D., and Landeros, A., Mixture Models Applied to Reject Inference. Proceedings of Statistical Computing Section, American Statistical Association, 2006.
6. Anderson, B., **Hardin, J.M.**, Crawford, M.A., Woodby, L.L., and Russell, T.V., The Use of Hierarchical Empirical Bayes for the Analysis of a Smoking Cessation Dissemination Project: *The SCRIPT Project*, Proceedings of Statistical Computing Section, American Statistical Association, 2005.
5. Conerly, M.D., **Hardin, J.M.**, and Waller, L.A., When Is Satterthwaite's Approximation Adequate? Proceedings of Statistical Computing Section, American Statistical Association. 209-213, 1994.
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2. **Hardin, J.M.** and Woolley, T.W., A Rationale for Teaching Bayes/Neyman – Pearson Compromise in Introductory Biostatistics. Proceedings of the Section of Statistical Education, American Statistical Association, 1990 Proceedings. 200-205, 1991.
1. **Hardin, J.M.** and Conerly, M.D., Biased Estimators for Regression: A Pitman Nearness Approach. Proceedings of the Statistical Computing Section, American Statistical Association. 309-314, 1990.

#### Manuscripts – Submitted

(A complete list of submitted publications is available upon request.)

#### Course Notes (Published)

1. Anderson, B. and **Hardin, J.M.**, Development of Credit Scoring Applications Using SAS® Enterprise Miner™, SAS Institute, Inc., Cary, North Carolina, 2009.

#### Technical Reports:

16. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Summary of Subject Attrition, Retention, and Mobility Patterns.** May 28, 1996.
15. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Report of Quality Assurance Procedures and Outcomes.** March 28, 1996.
14. Brossette, S.E., **Hardin, J.M.**, Moser, S.A., Sprague, A.P., Steindel, S.J., and Jones, W.T. A Knowledge Discovery and Data Mining Surveillance System Applied to Infection Control. **Department of Computer and Information Sciences Technical Report, CS-TR-96-11,** 1996.
13. Brossette, S.E., Moser, S.A., Sprague, A.P., **Hardin, J.M.**, and Jones, W.T. KDD Surveillance: A Next Generation System. **Department of Computer and Information Sciences Technical Report, CS-TR-96-13,** 1996.

12. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Proposed Reports and Statistical Models to Address: The Reorganized Operational Questions for National Study**, May 9, 1995.
11. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Proposed Reports and Statistical Models to Address: The Reorganized Operational Questions for National Study**, March 17, 1995.
10. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Summary of Attrition to Date: Years 1 and 2**, 1995.
9. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Report of Quality Assurance Procedures and Outcomes**, Washington, DC, September 30, 1994.
8. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Report of First Year Findings**, Washington, DC, April 22, 1994.
7. **Contributor.** Sequential Analysis and Behavioral Intervention for Disruptive Vocalization in the Nursing Home. **Retirement Research Foundation.** The University of Alabama at Birmingham, Birmingham, Alabama, 1994.
6. Waller, L.A., Turnbull, B.W., and **Hardin, J.M.** On Obtaining Distribution Functions by Numerical Inversion of Characteristic Functions with Applications. **Research Report 93-012.** University of Minnesota, September, 1993.
5. **Contributor.** The Evaluation of the Head Start/Public School Early Childhood Transition Demonstration Project. **Addendum.** Washington, DC, September 23, 1991.
4. **Hardin, J.M.** Users Guide: Multiple Comparisons among K Samples Subject to Unequal Patterns of Censorship. **Technical Report, Center for Statistical and Mathematical Services.** Mississippi State University, 1988.
3. Christakos, G.J. and **Hardin, J.M.** Lead Angle Error Minimization Using the Golden Section and a Cyclic Coordinate Search Technique. **Technical Memorandum, Freeman Mathematical Laboratory.** Eglin Air Force Base, Florida, 1986.
2. **Hardin, J.M.** The Use of Quaternions in AD/KR Missile Simulations. **Technical Report 85-02, Freeman Mathematical Laboratory.** Eglin Air Force Base, Florida, 1985.
1. **Hardin, J.M.** The Derivation of Pitch and Yaw Errors. **Technical Memorandum, Freeman Mathematical Laboratory.** Eglin Air Force Base, Florida, 1985.

#### **ABSTRACTS AND CONFERENCE PRESENTATIONS:**

230. **Hardin, J.M.,** Invited Presentation. SAS Global Forum, Washington, D.C., March 25-26, 2014.
229. **Hardin, J.M.,** Invited Presentation. Big Data, Big Analytics, Government Analytics Innovation Summit, Montgomery, Alabama, October 8, 2013.
228. **Hardin, J.M.,** Invited Presentation. What is Business Analytics? SAS Global Forum 2013, San Francisco, California, April 28-May 1, 2013.
227. **Hardin, J.M.,** AACSB Panel Discussion, ICAM Conference, Chicago, Illinois, April 6-8, 2013.
226. **Hardin, J.M.,** Joint Statistical Meeting 2012, San Diego, California, July 29-31, 2012.
224. *Track Chair,* "Business Intelligence," 5<sup>th</sup> International Conference on Information Systems, Technology and Management (ICISTM)-2011, March 10-11, 2011.

223. **Hardin, J.M.**, Invited panelist for session on Business Analytics, 2010 INFORMS Annual Meeting, Austin, Texas, November 9, 2010.
222. **Hardin, J.M.** and Grabowski, G. Invited Presentation. Educating and Equipping Business Analytics Professionals: A Corporate/Academic Perspective, M2010, Las Vegas, Nevada, October 25-26, 2010.
221. **Hardin, J.M.** and Conerly, M.D. Invited Presentation. Analytics in Manufacturing: A Case Study from Aluminum Recycling, Joint Statistical Meetings 2010, Vancouver, Canada, August, 2010.
220. Hanninen, P.V., **Hardin, J.M.**, and Watters, A.J., Alabama Entrepreneurial Research Network, Cambridge, England, July, 2010.
219. Raja, U., McManus, D., and **Hardin, J.M.**, Rural Healthcare Information Systems: A Collaborative Model, Madrid, Spain, June 21-28, 2010.
218. Anderson, B. and **Hardin, J.M.**, Modified Logistic Regression Using the EM Algorithm for Reject Inference, Credit Scoring & Credit Control XI: Edinburgh, Scotland, August 28-30, 2009.
217. Allen, R.A., Norton, M., Burgio, L., Snow, A.L., and **Hardin, J.M.**, Nursing Home Resident Pain as a Predictor of Agitation and Certified Nursing Assistant Burden, Annual Gerontological Society of America Symposium, National Harbor, Maryland, November 21-25, 2008.
216. Durkin, D., Sun, F., Hilgeman, **Hardin, J.M.**, and Burgio, L., Predicting Alzheimer's Caregivers Desire to Institutionalize: The Role of Quality of Care, Annual Gerontological Society of America Symposium, National Harbor, Maryland, November 21-25, 2008.
215. Shuster, J.L., Essary, S., and **Hardin, J.M.**, Divalproex Sodium Extended-Release vs. Quetiapine for Agitated Behaviors in Patients with Dementia, Academy of Psychosomatic Medicine Annual Meeting, Miami, Florida, November 19-22, 2008.
214. Landeros, A. and **Hardin, J.M.**, Data Complexity and Classifier Performance, Joint Statistical Meetings, Denver, Colorado, August 3-7, 2008.
213. Owen, J., Biggio, J., and **Hardin, J.M.**, Performance Effect of Pregnancy Misdating on the Multiple Marker Screening Test for Fetal Aneuploidy, The American College of Obstetricians and Gynecologists National Meeting, New Orleans, Louisiana, May 5-7, 2008.
212. Chhieng, D., **Hardin, J.M.**, Anderson, B., and Manne, U., Predicting 5-Year Survival of Colorectal Carcinoma Patients Using Data Mining Methods, American Medical Informatics Association Annual Symposium, Chicago, Illinois, November 10-14, 2007.
211. Anderson, B.S., **Hardin, J.M.**, and Olson, E., Comparison of Reject Inference Techniques Using a Simulation Study, Credit Scoring & Credit Control X: Edinburgh, Scotland, August 29-31, 2007.
210. Olson, E., Anderson, B., and **Hardin, J.M.**, A Comparative Study of Two Different Credit Models, Credit Scoring & Credit Control X: Edinburgh, Scotland, August 29-31, 2007.
209. Choi, H. and **Hardin, J.M.**, Approaches to Time Series Clustering, Joint Statistical Meetings, Salt Lake City, Utah, July 29-August 1, 2007.
208. Szychowski, J.M., **Hardin, J.M.**, Conerly, M.D., Horn, W.S., and Woodby, L.L., A Locally Weighted Regression Approach to Evaluating the Effects of Smoking Reduction on Birth Weight, 2007 Joint Statistical Meetings, Salt Lake City, Utah, August 2007.
207. **Hardin, J.M.**, Predictive Data Mining Models for Diagnosis and Therapy Selection in Healthcare, Invited Presentation, SAS Executive Healthcare Conference, Cary, North Carolina, May 16-17, 2007.
206. **Hardin, J.M.** and Conerly, M.D., Teaching Business Applications of Data Mining, SAS Global Forum, Orlando, Florida, April 16-19, 2007.

205. **Hardin, J.M.**, Day, T., Hamilton, J., Mitchell, T., Keenum, T., and Oglesby J., Building Predictive Models from Textual Data in Medical Records, INORMS 2006, Pittsburgh, Pennsylvania, November 5-8, 2006.
204. Davis, C.M., **Hardin, J.M.**, and Bohannon T., Using Data Mining to Build an Effective Recruitment and Retention Strategy, Invited Presentation, *M2006 – SAS Data Mining Technology Conference*, Las Vegas, Nevada, October 23-24, 2006.
203. Anderson, B., **Hardin, J.M.**, Landeros, A., and Conerly, M., Mixture Models Applied to Reject Inference, Joint Statistical Meetings, Seattle, Washington, August 6-10, 2006.
202. DeVasher, M. and **Hardin, J.M.**, Design of Experiments for Parameter Estimation in Compartmental Models, Joint Statistical Meetings, Seattle, Washington, August 6-10, 2006.
201. Adams, B.M., Saithanu, S., and **Hardin, J.M.**, A Neural Network Approach to Control Charts with Applications to Health Surveillance, Joint Statistical Meetings, Seattle, Washington, August 6-10, 2006.
200. **Hardin, J.M.**, Using Predictive Modeling to Enhance Diagnosis and Therapy Selection, Hewlett-Packard (HP) Worldwide Health and Life Science Symposium II, Invited Presentation, Orlando, Florida, July 18-20, 2006.
199. Bohannon, T., **Hardin, J.M.**, and Thompson, R., Developing Freshmen Retention Models Using Data Mining Techniques: The Baylor University and University of Alabama Experiences, Invited Presentation, 31<sup>th</sup> SAS Users Group International (SUGI) Meeting, March 27-29, 2006.
198. Macchiarini, P., Altmayer, M., Walles, T., Schulze, K., Wildfang, I., and **Hardin, J.M.**, Results of Carinal Resection for Non-small Cell Lung Cancer, 42<sup>nd</sup> Annual Meeting of the Society of Thoracic Surgeons, Chicago, Illinois, January 29-February 3, 2006.
197. **Hardin, J.M.** and Conerly, M.D., The Data Mining Program at The University of Alabama, **Data Mining Session, International Conference on Statistics, Combinatorics, Mathematics, and Applications – 12th Annual Conference of the Forum for Interdisciplinary Mathematics (FIM XII)**, Auburn University, December 2-4, 2005.
196. Park, N.S., Burgio, L.D., **Hardin, J.M.**, and Sun, F., Longitudinal Study of Behavioral Symptoms and Resident Characteristics in Nursing Home Residents, 58<sup>th</sup> Annual Gerontological Society of America Symposium, November 18-22, 2005.
195. **Hardin, J.M.**, Data Mining at UA, Invited panelist for session on Teaching Data Mining in Business Schools, Decision Science Institute Meeting, San Francisco, California, November 19-22, 2005.
194. **Hardin, J.M.**, Sox, C., and Conerly, M.D., The University of Alabama MBA Business Intelligence Track: A New Initiative, INORMS 2005, November 13-16, 2005.
193. Gup, B.E., **Hardin, J.M.**, and Conerly, M.D., Business Analytics Applied to Money Laundering Detection, Invited Presentation, *M2005 – SAS Data Mining Technology Conference*, Las Vegas, Nevada, October 24-25, 2005.
192. Hong, B. and **Hardin, J.M.**, A Study of the Performance of Multivariate Forecast-based Surveillance Schemes for Infectious Diseases on Multiple Locations, Invited Presentation, Joint Statistical Meeting, Minneapolis, Minnesota, August 7-11, 2005.
191. **Hardin, J.M.**, Invited panelist, The UA/SAS Data Mining Certificate Program, SAS Conference on Data Mining in Higher Education, Cary, North Carolina, June, 2005.
190. **Hardin, J.M.**, The Use of DataFlux Data Quality Software in a Data Mining Certificate Program at The University of Alabama, Invited Presentation, DataFlux Users Meeting, May 4-5, 2005.
189. **Hardin, J.M.** and Conerly, M.D., The University of Alabama and SAS® Data Mining Certificate Partnership Invited Presentation, 30<sup>th</sup> SAS Users Group International Meeting, April 10-13, 2005.
188. **Hardin, J.M.** and Thompson, R.J., The University of Alabama's Student Retention Initiative and SAS Enrollment Management Lifecycle, 19<sup>th</sup> Annual Conference of the Alabama Institutional Research Association, April 7-8, 2005.

187. Conerly, M.D. and **Hardin, J.M.**, Statistics for Institutional Research Using SAS Enterprise Guide, 19<sup>th</sup> Annual Conference of the Alabama Institutional Research Association, April 7-8, 2005.
186. Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, Russell, T.V., and Windsor, R.A., Disseminating Tobacco Cessation Counseling Best Practices to Maternity Care Providers, Society for Research in Nicotine and Tobacco 11<sup>th</sup> Annual Meeting and 7<sup>th</sup> SRNT European Conference, Prague, Czech Republic, March 2005.
185. Burgio L.D., Fisher S.E., Fairchild J.K., Scilley K., and **Hardin J.M.**, Quality of care in the nursing home: effects of staff assignment and work shift, 57<sup>th</sup> Annual Gerontological Society of America Symposium, November 21-23, 2004.
184. Wiltshire, J.C., Smith, M., and **Hardin, J.M.**, Family-Household Structure and Access to Care among Midlife Women, 57<sup>th</sup> Annual Gerontological Society of America Symposium, November 21-23, 2004.
183. Manne, U., Grizzle, W.E., Jhala, N., Sreelatha, M., Chatla, C., and **Hardin, J.M.**, Clinical Implications of Molecular Markers of Colorectal Cancer Differ with Tumor Location, Stage and Ethnicity, 9<sup>th</sup> World Congress on Advances in Oncology and 7<sup>th</sup> International Symposium of Molecular Medicine, Crete, Greece, Abstract 414, October 2004.
182. Meleth, S., Anderson, B., **Hardin, J.M.**, Chatla, C., and Manne, U., Molecular Biomarkers and Colorectal Cancer – Better than Duke’s Stage? Invited Presentation, *M2004 – SAS Data Mining Technology Conference*, October 18-20, 2004, Las Vegas, Nevada.
181. **Hardin, J.M.**, Discussant – Special Session on Genetic Algorithms, 2004 Joint Statistical Meetings, Toronto, August 8-12, 2004.
180. Hong, B. and **Hardin, J.M.**, A Multivariate Forecast-based Surveillance Scheme for Infectious Diseases at Multiple Locations, 2004 Joint Statistical Meetings, August 8-12, 2004.
179. **Hardin, J.M.**, Teaching Data Mining in the University, Invited Panelist, SAS Conference on Data Mining in Higher Education, Cary, North Carolina, June, 2004.
178. Hong, B. and **Hardin, J.M.**, Infectious Disease Surveillance Scheme C: A Multivariate Approach. presented at the 2004 ENAR Spring Meeting, Pittsburgh, Pennsylvania, March 28-31, 2004.
177. Horn, W.S., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, Windsor, R.A., and Macrina, D., Low Birth Weight Outcomes Among Smokers and Nonsmokers by Race, 2003 Conference on Tobacco or Health, Boston, Massachusetts, December, 2003.
176. **Hardin, J.M.**, Data Mining at UA, Invited panelist for session on Teaching Data Mining in Business Schools, Decision Science Institute Meeting, Washington, DC, November 22, 2003.
175. Allen, R.S., Burgio, L.D., Fisher, S.E., **Hardin, J.M.**, Pierce, T., and Shuster, J.L., Terminal Agitation in the Nursing Home, 56<sup>th</sup> Annual Gerontological Society of America Symposium, San Diego, California, November 21-25, 2003.
174. Fisher, S.E., **Hardin, J.M.**, and Burgio, L.D., Characterizing Rater Agreement in Nursing Home Research, 56<sup>th</sup> Annual Gerontological Society of America Symposium, San Diego, California, November 21-25, 2003.
173. Roff, L.L., Burgio, L.D., Gitlin, L., Nichols L., Chaplin W., and **Hardin J.M.**, Positive Aspects of Alzheimer's Caregiving: The Role of Race, 56<sup>th</sup> Annual Gerontological Society of America Symposium, San Diego, California, November 21-25, 2003.
172. Crawford, M., Woodby, L., Windsor, R., **Hardin, J.M.**, Miller, T., McVay, J., and McCallum, D., Diverse Smoking Patterns among Indigent Alabama Women and a Program to Create Healthier Babies and Smoke Free Homes, American Public Health Association 130th Annual Meeting, Philadelphia, Pennsylvania, November 9-13, 2003.
171. Watkins, W., **Hardin, J. M.**, Conerly, M.D., Hong, B., and Feng, C., Traffic Safety Analyses: A Data Mining Approach, UTCA Symposium, Birmingham, Alabama, October, 2003.

170. Watkins, W., **Hardin, J.M.**, Conerly, M.D., Hong, B., and Feng, C., A Statistical Measure of the Economic Impact of Traffic Crashes in Alabama, Joint Statistical Meetings, San Francisco, California, August 3-7, 2003.
169. Zhou, Z., Hsu, C., and **Hardin, J.M.**, A Useful Chart of the Global Assessment in Clinical Trials, PharmaSUG (SAS Users Group) 2003, Miami Beach, Florida, May 4-7, 2003.
168. Chen, R.Y., Westfall, A.O., **Hardin, J.M.**, and Saag, M.S., Red Alert: Identifying Predictors of Mortality in HIV-Infected Individuals [abstract], 7th International Workshop on HIV Observational Databases, Fiuggi, Italy, March 28-30, 2003.
167. Conerly, M.D., **Hardin, J.M.**, Watkins, W., Feng, C., and Hong, B., An Economic Index for Evaluating Traffic Safety, Interface 2003, Salt Lake City, Utah, March 13-15, 2003.
166. Chen, R.Y., Westfall, A.O., **Hardin, J.M.**, Vermund, M.S., and Saag, M., Complete Blood Count (CBC) as a Surrogate CD4 Marker for HIV Monitoring in Resource-Limited Settings, 10th Conference on Retroviruses and Opportunistic Infections (CROI), Boston, Massachusetts, February 10-14, 2003.
165. **Hardin, J.M.**, Thompson, R.J., Conerly, M.D., and Watkins, W., Data Mining—Harvesting the Gold for Campus Reporting, SACRAO 2003, Biloxi, Mississippi, February 10, 2003.
164. Crawford, M.A., Woodby, L.L., **Hardin, J.M.**, Windsor, R.A., and Miller, T.M., A Media and Social Marketing Program to Create Healthier Babies and Smoke-free Homes, 2002 National Conference on Tobacco or Health, San Francisco, California, November, 2002.
163. Crawford, M.A., Woodby, L.L., Windsor, R.A., **Hardin, J.M.**, Miller, T.M., McVay, J., McCallum, D., and Blum, A., Diverse Smoking Patterns among Indigent Alabama Women and a Program to Create Healthier Babies and Smoke Free Homes, American Public Health Association National Meeting, Philadelphia, Pennsylvania, November, 2002.
162. Quality of Care in the Nursing Home, paper presented at the 55<sup>th</sup> Annual Scientific Meeting of the Gerontological Society of America, Boston, Massachusetts, November 21-25, 2001.
161. Crawford, M.A., Woodby, L.L., **Hardin, J.M.**, Windsor, R.A., and Miller, T.M., Alabama Tobacco Free Families: A Media and Social Marketing Program to Reduce Tobacco Use, Society for Research in Nicotine and Tobacco European Conference, Santander, Spain, October, 2002.
160. **Hardin, J.M.**, Conerly, M.D., Thompson, R.J., and Watkins, W., Predicting Student Retention: Data Mining and CRM in Higher Education, Invited Presentation at the M2002 SAS Conference on Data Mining, October, 2002.
159. **Hardin, J.M.**, Sharpe, S., and Olgesby, J., Data Mining and CRM: What Executives Need to Know, Council on Logistics Management 2002 Annual Meeting, San Francisco, California, September 30, 2002.
158. Berner, E.S. and **Hardin, J.M.**, Assessing Learning Outcomes of an Online Course in Health Informatics, Presentation at the Association of University Programs in Health Administration, Washington, DC, July, 2002.
157. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, and Miller, T.M., Integration of Smoking Cessation/Reduction in Pregnancy Treatment Model (SCRIPT) into Maternity Care and Practice, American Psychological Association Conference, Enhancing Outcomes in Women's Health, Translating Psychosocial and Behavioral Research into Primary Care Community Interventions and Health Policy, Washington, DC, February, 2002.
156. Crawford, M.A., Woodby, L.L., Windsor, R.A., **Hardin, J.M.**, and Miller, T.M., Alabama Tobacco Free Families, Society for Research in Nicotine and Tobacco Annual Meeting, Savannah, Georgia, February, 2002.
155. Crawford, M.A., Woodby, L.L., Windsor, R.A., **Hardin, J.M.**, and Miller, T.M., Alabama Tobacco Free Families: A Media and Social Marketing Program to Reduce Tobacco Use, National Conference on Tobacco or Health Annual Meeting, New Orleans, Louisiana, November, 2001.
154. Woodby, L.L., Windsor, R.A., Crawford, M.A., **Hardin, J.M.**, Miller, T.M., and DiClemente, C.C., Predictors of Cessation

and Reduction among Women in the Smoking Cessation/Reduction in Pregnancy Trial, National Conference on Tobacco or Health Annual Meeting, New Orleans, Louisiana, November, 2001.

153. Woodby, L.L., **Hardin, J.M.**, Windsor, R.A., Crawford, M.A., Miller, T.M., and DiClemente, C.C., Predictors of Cessation and Reduction among Alabama Women in the Smoking Cessation/Reduction in Pregnancy Trial, 129th Annual Meeting of the American Public Health Association, Atlanta, Georgia, October 21-25, 2001.
152. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, Miller, T.M., and DiClemente, C.C., Effectiveness and Cost Benefit of the Smoking Cessation or Reduction in Pregnancy Treatment Model in Medicaid Maternity Care, 129th Annual Meeting of the American Public Health Association, Atlanta, Georgia, October 21-25, 2001.
151. Person, S.D., **Hardin, J.M.**, and Allison, J.J., An Examination of the Relationship between Appropriate Receipt of ACE Inhibitors and Mortality: A Bayesian Hierarchical Linear Models Approach, Joint Statistical Meetings, Atlanta, Georgia, August 5-9, 2001.
150. Giles, D., **Hardin, J.M.**, and Alexander, G., An Application of Hierarchical Linear Modeling in the Examination of Maternity Length of Stay for Cesarean-Section Deliveries, Joint Statistical Meetings, Atlanta, Georgia, August 5-9, 2001.
149. Woodby, L.L., **Hardin, J.M.**, Crawford, M.A., Windsor, R.A., Miller, T.M., and DiClemente, C.C., Predictors of Cessation: The SCRIPT Study, XVII World Conference on Health Promotion and Health Education, Paris, France, July 15-20, 2001.
148. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, Miller, T.M., and DiClemente, C.C., Smoking Health Education, Paris, France, July 15-20, 2001.
147. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, Miller, T.M., and DiClemente, C.C. Effectiveness and Cost Benefit of the Smoking Cessation or Reduction in Pregnancy Treatment Model in Medicaid Maternity Care, XVII World Conference on Health Promotion and Health Education, Paris, France, July 15-20, 2001.
146. Person, S.D. and **Hardin, J.M.**, Forecasting of Incomplete Stationary Time Series, International Symposium on Forecasting 2001, Callaway Gardens, Georgia, June 17-20, 2001.
145. Hsu, C., Zhou, Z., and **Hardin, J.M.**, A SAS Macro Program for Star-plots, 26th Annual SAS Users Group International Conference, Long Beach, California, April 22-25, 2001.
144. Brossette, S.E., Moser, S.A., Jones, W.T., Sprague, and **Hardin, J.M.**, DMSS: A Knowledge Discovery System for Epidemiologic Surveillance, 2001 Annual American Computing Machinery (ACM) Southeast Conference, University of Georgia, Athens, Georgia, March 16-17, 2001.
143. Manne, U., **Hardin, J.M.**, Sprague, A.P., Jones, W.T., and Grizzle, W.E., Use of Artificial Intelligence (AI) and Computational Statistical (CS) Methods in Predicting the Clinical Outcome of Colorectal Cancer (CRC) Patients, 92nd Annual Meeting of the American Association for Cancer Research, New Orleans, Louisiana, March 24-28, 2001.
142. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, Miller, T.M., and DiClemente, C.C., Effectiveness and Cost Benefit of the Smoking Cessation or Reduction in Pregnancy Treatment Model in Medicaid Maternity Care, Society for Research on Nicotine and Tobacco, Seattle, Washington, March 23-25, 2001.
141. Woodby, L.L., **Hardin, J.M.**, Crawford, M.A., Windsor, R.A., Miller, T.M., and DiClemente, C.C., Predictors of Cessation and Reduction among Women in the Smoking Cessation/Reduction in Pregnancy Trial, Society for Research on Nicotine and Tobacco, Seattle, Washington, March 23-25, 2001.
140. Giles, D., **Hardin, J.M.**, Applegate, S., and Alexander, G., Linking Multiple Sources of Secondary Data: An Example from Maternal and Child Health, International Biometric Society Eastern North American Region Spring Meeting, Charlotte, North Carolina, March 25-28, 2001.
139. Woodby, L.L., **Hardin, J.M.**, Windsor, R.A., Crawford, M.A., Miller, T.M., and DiClemente, C.C., Models for Predicting Smoking Cessation among Pregnant Women, International Biometric Society Eastern North American Region Spring Meeting, Charlotte, North Carolina, March 25-28, 2001.



138. Herzig, T., Hicks, J., Johns, M., and **Hardin, J.M.**, National Standards & Regulations Regarding Research: The HIPAA Legislation, International Biometric Society Eastern North American Region Spring Meeting, Charlotte, North Carolina, March 25-28, 2001.
137. Herzig, T. and **Hardin, J.M.**, Issues in Developing an Information Architecture for Distributed, Web-based Data Collection Systems, International Biometric Society Eastern North American Region Spring Meeting, Charlotte, North Carolina, March 25-28, 2001.
136. Crawford, M., Herzig, T., **Hardin, J.M.**, Woodby, L.L., and Harrington, T.M., Data Collection and Wireless PDAs: A Conceptual Research Architecture for Rural Physicians, International Biometric Society Eastern North American Region Spring Meeting, Charlotte, North Carolina, March 25-28, 2001.
135. Howard, G. and **Hardin, J.M.**, Database Schema for Clinical Research, International Biometric Society Eastern North American Region Spring Meeting, Charlotte, North Carolina, March 25-28, 2001.
134. Azadian, R., **Hardin, J.M.**, Woodby, L.L., Windsor, R.A., Crawford, M.C., and Miller, T.M., Using Teleform Fax Data Entry in the SCRIPT Project, International Biometric Society Eastern North American Region Spring Meeting, Charlotte, North Carolina, March 25-28, 2001.
133. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, and Miller, T.M., Integration of Smoking Cessation/Reduction in Pregnancy Treatment Model (SCRIPT) into Maternity Care and Practice, 15<sup>th</sup> National Conference on Chronic Disease Prevention and Control, Washington, DC, November, 2000.
132. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, and Miller, T.M., Translating the Smoking Cessation/Reduction in Pregnancy Treatment Model (SCRIPT) into Maternity Care and Practice, Workshop presentation for the Continuing Education Institute at the American Public Health Association 128<sup>th</sup> Annual Meeting, Boston, Massachusetts, November, 2000.
131. **Hardin, J.M.** and Casselman, B., Using Time Series Intervention Analysis for Assessing Policy and/or Edit Implementation Effectiveness for Medicare Claims Processing, 4<sup>th</sup> Annual Conference on Statistics in the Medicare Program, September 19-22, 2000.
130. Giles, D., **Hardin, J.M.**, and Alexander, G., Hospital Profiling of Maternity Length of Stay, World Federation of Public Health Associations' 9<sup>th</sup> International Congress, Beijing, China, September 2-6, 2000.
129. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, Miller, T.M., and DiClemente, C.C., The Smoking Cessation/Reduction in Pregnancy Treatment Model (SCRIPT), 11<sup>th</sup> World Conference on Tobacco or Health, Chicago, Illinois, August, 2000.
128. Woodby, L.L., Windsor, R.A., Crawford, M.A., **Hardin, J.M.**, Miller, T.M., and DiClemente, S.S., Predictors of Smoking Cessation during Pregnancy, 11<sup>th</sup> World Conference on Tobacco or Health, Chicago, IL, August, 2000.
127. Russell, T.V., Woodby, L.L., Windsor, R.A., Chisolm, S., Crawford, M.A., **Hardin, J.M.**, and DiClemente, C.C., The Impact of Telephone Reinforcement and Monetary Incentives on Pregnant Smoker Behavior Change: A Formative Evaluation, 11<sup>th</sup> World Conference on Tobacco or Health, Chicago, Illinois, August, 2000.
126. Russell, T.V., Windsor, R.A., Woodby, L.L., Crawford, M.A., and **Hardin, J.M.**, Assessing the Validity of Cigarette Smoking Status among Medicaid Maternity Patients, 11<sup>th</sup> World Conference on Tobacco or Health, Chicago, Illinois, August 2000.
125. **Hardin, J.M.** and Corliss, D., Using the SAS Enterprise Miner in the University (invited), Best Practices in Academia SAS Executive Conference, Cary, North Carolina, June 6-7, 2000.
124. Person, S.D., and **Hardin, J.M.** An Extension of the PEM Algorithm to Higher Order ARMA Time Series Models. International Biometric Society Eastern North American Region Spring Meeting, Chicago, Illinois. March 19-22, 2000.

123. **Hardin, J.M.**, Hsu, C., Person, S.D., Allison, J.J., and Kiefe, C. The Use of An Exact Linear Empirical Bayes Estimator for Comparing Quality of Care Measures. International Biometric Society Eastern North American Region Spring Meeting. Chicago, Illinois, March 19-22, 2000.
122. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, and Miller, T.A. Effectiveness of Smoking Behavior Change Methods for Pregnant Smokers in Medicaid Managed Care. Proceedings of the 35th Annual Meeting of the Society of Prospective Medicine. Colorado Springs, Colorado, September, 1999.
121. Berner, E.S., McGowan, J.J., Spooner, S.A., Raszka, W., Berkow, R., Plutchak, T.S., Jackson, J.R. and **Hardin, J.M.** Evaluation of the Effects of Instruction in Online Information Retrieval and Application, Competing Constituencies of Medical Education: Meeting Accountability with Innovation. Chicago, Illinois, July, 1999.
120. Windsor, R.A., Woodby, L.L., **Hardin, J.M.**, Crawford, M.A, Miller, T.A and DiClemente, C.C. Integration of AHCPR Guideline and Patient Education Methods for Pregnant Smokers into Managed Care Practices. Proceedings of the Society for Public Health Education 1999 Midyear Scientific Conference. Minneapolis, Minnesota, June 1999.
119. Person, S.D. and **Hardin, J.M.** The Estimation and Forecasting of Incomplete Stationary Time Series. International Biometric Society Eastern North American Region 1999 Spring Meeting. March 28-31, 1999, Atlanta, Georgia.
118. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.**, and Miller, T.A., Effectiveness of AHCPR Guideline and Patient Education Methods for Pregnant Smokers in Medicaid Maternity Care. Society for Research on Nicotine and Tobacco Annual Meeting, San Diego, CA, March 1999.
117. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.** and Miller, T.M. Smoking Cessation and Reduction in Pregnancy Trial: SCRIPT. Society of Behavioral Medicine Annual Meeting. March 1999.
116. Woodby, L.L., Windsor, R.A., Crawford, M.A., **Hardin, J.M.** and Miller, T.M. SCRIPT Natural History Study. Society of Behavioral Medicine Annual Meeting. March 1999.
115. Woodby, L.L., Windsor, R.A., Crawford, M.A., **Hardin, J.M.** and Miller, T.M. A Formative Evaluation of Smoking Behavior Change Behavior Methods for Pregnant Smokers in Medicaid Maternity Care: SCRIPT. Society of Behavioral Medicine Annual Meeting. March 1999.
114. **Hardin, J.M.** Data Mining: A Case Study in the Medicare Program (Invited Presentation) 3rd Annual Conference on Statistics in the Medicare Program. HFCA. Atlanta, Georgia, Aug 25-27, 1999.
113. **Hardin, J.M.** and Casselman, B. Using Time Series Analysis in Focused Medical Review (Invited Presentation). 3rd Annual Conference on Statistics in the Medicare Program. Medicare, HFCA, Atlanta, Georgia, Aug 25-27, 1999.
112. Bartolucci, A.A., Singh, K.P., **Hardin, J.M.** and Vogler, W.R. Establishing Therapeutic Survival Equivalence in a Study of Acute Myelogenous Leukemia. Ninth International Congress on Anti-Cancer Treatment. Paris, France, February 2-5, 1999
111. Windsor, R.A., Woodby, L.L., **Hardin, J.M.** and Crawford, M.A. A Formative Evaluation of Smoking Behavior Change Methods for Pregnant Smokers in Medicaid Managed Care: SCRIPT. Society for Public Health Education Annual Meeting. Washington, D.C., November, 1998.
110. Windsor, R.A., Woodby, L.L., Miller, T.M., Crawford, M.A. and **Hardin, J.M.** Smoking Cessation and Reduction in Pregnancy Trial: SCRIPT. American Public Health Association 126th Annual Meeting. Washington, D.C., November, 1998.
109. Windsor, R.A., Woodby, L.L., Miller, T.M., **Hardin, J.M.** and Crawford, M.A. SCRIPT Natural History Study. American Public Health Association 126th Annual Meeting. Washington, D.C., November, 1998.
108. Windsor, R.A., Woodby, L.L., Miller, T.M., **Hardin, J.M.** and Crawford, M.A. A Formative Evaluation of Behavior Change Methods for Pregnant Smokers in Medicaid Managed Care: SCRIPT Pilot Study. American Public Health Association 126th Annual Meeting. Washington, D.C., November, 1998.

107. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.** and Miller, T.M. Smoking Cessation and Reduction in Pregnancy Trial: SCRIPT. XVI World Conference on Health Promotion and Health Education. San Juan, Puerto Rico, June, 1998.
106. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.** Russell, T.V., and Miller, T.M. SCRIPT Natural History Study. XVI World Conference on Health Promotion and Health Education. San Juan, Puerto Rico, June, 1998.
105. Windsor, R.A., Woodby, L.L., Crawford, M.A., **Hardin, J.M.** and Miller, T.M. A Formative Evaluation of Behavior Change Methods for Pregnant Smokers in Medicaid Managed Care: SCRIPT Pilot Study. XVI World Conference on Health Promotion and Health Education. San Juan, Puerto, June, 1998.
104. Windsor, R.A., Woodby, L.L., **Hardin, J.M.**, Crawford, M.A. and Miller, T.M. Integrating Health Education Methods for Pregnant Smokers into Managed Care Clinical Practice: SCRIPT. Proceedings of the Society for Research on Nicotine and Tobacco Annual Meeting. New Orleans, Louisiana, March, 1998.
103. Owen, J., **Hardin, J.M.**, Wenstrom, K.D., Hsu, C. and Boots, L.R. Use of Non-population Based Normative Analyte Values Degrades the Performance of the Multiple Marker Test for Downs Syndrome. American Journal of Obstetrics and Gynecology 1998 18th Annual Meeting. Miami Beach, Florida, February 2-7, 1998.
102. **Hardin, J.M.**, Burgio, L.D., Bodner, E. and Yurick, A. An Investigation of Temporal Patterns of Resident Activity and Staff Presence in the Nursing Home, Symposium - Methodological and Analytical Strategies for Studies using Real-Time Direct Observational Data. Burgio, L., Chair; **Hardin, J.M.**, Roth, D., Stevens, A., Participants. 50th Annual Scientific Meeting of the Gerontological Society of America. Cincinnati, Ohio, November 14-18, 1997.
101. Holm, M. B., Burgio, L. D., **Hardin, J.M.** and Hsu, C. Increased participation in Morning Care Routines of LTC Residents with Dementia. 50th Annual Scientific Meeting of the Gerontological Society of America. Cincinnati, Ohio, November, 14 - 18, 1997.
100. Cotter, E. M., Burgio, L. D., Roth, D. and **Hardin, J.M.** Correspondence of the FIM Self-Care Subscale with Observations of Dementia Patients ADL Performance. 50th Annual Scientific Meeting of the Gerontological Society of America. Cincinnati, Ohio, November, 14 - 18, 1997.
99. Windsor, R.A., Woodby, L.L., **Hardin, J.M.**, Crawford, M.A. and Miller, T.A. Smoking Cessation-Reduction in Pregnancy Trial: SCRIPT. American Public Health Association 125th Annual Meeting. Indianapolis, Indiana, November 9-13, 1997.
98. Woodby, L.L., Windsor, R.A., Crawford, M.A., **Hardin, J.M.** and Miller, T.M. Natural History Study and Prevalence Survey of Pregnant Smokers in Alabama: Smoking Cessation-Reduction in Pregnancy Trial: SCRIPT. American Public Health Association 125th Annual Meeting. Indianapolis, Indiana, November 9-13, 1997.
97. Redden, D., Giles, D.F., Telfair, J. and **Hardin, J.M.** Longitudinal Analysis of the Relationship Between Disease Severity and Functioning in Adolescents with Sickle Cell Disease Using Generalized Estimating Equations. American Public Health Association. Indianapolis, Indiana, November 9-13, 1997.
96. Windsor, R.A., Woodby, L.L., **Hardin, J.M.**, Crawford, M.A. and Miller, T.M. Integrating Health Education Methods into Managed Care Clinical Practice: Smoking Cessation/Reduction in Pregnancy Trial: SCRIPT. Health Education at the Crossroads: Applying Social Ecology to Prevention. Society for Public Health Education: 48th Annual Meeting. Indianapolis, Indiana, November 7-9, 1997.
95. Wong, D.Y., Jones, W.T., **Hardin, J.M.** and Moser, S.A. A Strategy for Geomedical Surveillance Using the Hawkeye Knowledge Discovery System. GeoMed '97. Rostock, Germany, September 4-6, 1997.
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89. Tanner, D.L., Bailey, E.H., Driver, D.J., Burgio, L.D., **Hardin, J.M.** and Stevens, A.B. Influence of Nursing Assistant to Resident Ratio on Selected Quality of Care Variables in the Nursing Home. Gerontological Society of America Symposium. Washington, D.C., November 11-13, 1996.
88. Cotter, E.M., Burgio, L.D., Hsu, C. and **Hardin, J.M.** Sequential Analysis of Helping Interactions Between Mothers and Adult Children with Mental Retardation. Gerontological Society of America Symposium. Washington, D.C., November 11-13, 1996.
87. Stevens, A.B., Burgio, L.D., **Hardin, J.M.**, Burgio, K.J., Paul, P.B., Tanner, D.L. and Driver, D.J. Gerontological Society of America Symposium. Washington, D.C., November 11-13, 1996.
86. Scilley, K., Burgio, L.D., Stevens, A., **Hardin, J.M.** and Hsu, C. Observed Affect as a Measure of Quality of Life For Elderly Nursing Home Residents. Gerontological Society of America Symposium. Washington, D.C., November 11-13, 1996.
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84. **Hardin, J.M.**, Hsu, C., Burgio, L., and Yurich, A. Examining Temporal Behavior Patterns of Elderly Nursing Home Residents. Gerontological Society of America Symposium. Washington, D.C., November 11-13, 1996.
83. **Hardin, J.M.** Objectives in Database Design for Outcomes Analysis (invited key note address). American Physical Therapy Association. Chicago, Illinois, November 8-9, 1996.
82. Scilley, K., Burgio, L.D., **Hardin, J.M.** and Hsu, C. Temporal Patterns of Verbal Agitation in Elderly Nursing Home Residents. Human Development. May 28-30, 1996.
81. Butler, F.R., Burgio, L.D. and **Hardin, J.M.** Analysis of Disruptive Behavior and Social Interactions: A Longitudinal Study. Geriatric Society of America. San Diego, California, November, 1995.
80. Burgio, K.L., Locher, J.L., Goode, P.S., **Hardin, J.M.**, McDowell, B.J., Steading, J. and Candib, D. Urodynamic Changes Associated with Behavior and Drug Therapy for Urge Incontinence in Older Women. Gerontological Society of America. San Diego, California, November, 1995.
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77. Redden, D.T., **Hardin, J.M.**, Blair, C. and Ramey, C. Aspects of Hierarchical Linear Modeling in Program Evaluation. 1995 Joint Statistical Meetings. Orlando, Florida, August 13-17, 1995.

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75. Snyder, S. and **Hardin, J.M.** Validation of a Modification of the School Climate Survey for Early Grades. Bi- Annual Meeting of the Society for Research in Child Development. Indianapolis, Indiana, April 2, 1995.
74. Snyder, S. and **Hardin, J.M.** Validation of the Family Routines Inventory with a National Sample. Bi-Annual Meeting of the Society for Research in Child Development. Indianapolis, Indiana, April 2, 1995.
73. Cornell, C.E., Raczynski, Bittner, V., Hsu, C., **Hardin, J.M.** and Taylor, H : Reasons for Health Care Seeking Delays in African-American and White Cardiac Patients. Annual Meeting of The Society of Behavioral Medicine. San Diego, California, March 22-25, 1995.
72. Cornell, C.E., Raczynski, Bittner, V., Hsu, C., **Hardin, J.M.** and Taylor, H. Reasons for Health Care Seeking Delays in African-American and White Cardiac Patients. Annual Prevention Center Directors Meeting. Atlanta, Georgia, February 16-18, 1995.
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70. Owen, J., Wenstrom, K.D., Davis, R.O., Brumfield, C.G., DuBard, M.B. and **Hardin, J.M.** The Correlation Between the Amniotic Fluid Index and a Subjective Estimate of the Amniotic Fluid Volume in 31,000 Sonographic Evaluations. 1995 Annual Meeting of the Society of Perinatal Obstetricians. Atlanta, Georgia, January 23-28, 1995.
69. Dasanayake, A.P., **Hardin, J.M.**, Hsu, C. and Caufield, P.W. Predictors of Time of Mutans Streptococci Colonization (MS) in Children. 1995 International Association Dental Research. Washington, D.C., January 6, 1995.
68. Burgio, L.D., Scilley, K., **Hardin, J.M.** and Lewis, T. Analysis and Intervention for Disruptive Vocalization in the Nursing Home. Gerontological Society of America Symposium. 1994.
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66. Fielstein, E.M., Williams, M.A., LaMarche, J.A., **Hardin, J.M.**, Fisher, W.S. and Boll, T.J. MMPI Cluster Analysis Among Surgically Treated Subarachnoid Hemorrhage Patients. National Academy of Neuropsychology Poster Presentation, Fourteenth Annual Meeting. Orlando, Florida, November 3-5, 1994.
65. Bittner, V., Cornell, C., Raczynski, J., Taylor, H., **Hardin, J.M.** and Hsu, J. Do Symptoms of Ischemic Heart Disease Differ by Gender? American College of Cardiology 44th Annual Scientific Session September, 1994.
64. Burgio, K.L., Locher, J.L., Goode, P.S., **Hardin, J.M.**, McDowell, B.J. and Candib, D. Behavior vs Drug Therapy for Urge Incontinence in Older Women. Fifteenth Annual Scientific Meeting Program Ontario, Canada, September 21-24, 1994.
63. **Hardin, J.M.** and Bass, D. An Investigation of Generalized Estimating Equations Using the Mahalanobis Distance and Complete Minimization. 1994 Joint Statistical Meetings. Toronto, Canada, August 14-18, 1994.
62. Conerly, M.D., **Hardin, J.M.** and Waller, L.A. When is Satterthwaite's Approximation Adequate? 1994 Joint Statistical Meetings. Toronto, Canada, August 14-18, 1994.
61. Canfield, G., **Hardin, J.M.** and Grubbs, C.J. Effect of 4-Hydroxyphenylretinamide on Methylnitrosourea- induced O6-Methylguanine Adduct Formation in Rat Mammary Gland DNA. Histopathobiology of Neoplasia, American Association for

- Cancer Research. Keystone, Colorado, July 17-24, 1994.
60. Hsu, C. and **Hardin, J.M.** Bayesian Estimation Using the Gibbs Sampler for the Inhibition/Promotion Cancer Chemoprevention Experiment. 26th Symposium on the Interface: Computing Science and Statistics. Research Triangle Park, North Carolina, June 15-18, 1994.
  59. Blair, C. and **Hardin, J.M.** Identifying a Typology of Family Risk in Early Intervention Research. Society for Research on Child Development. Gatlinburg, Tennessee, March 30 - April 2, 1994.
  58. Raczynski, J.M., Oberman, A., Caldwell, E., Gianturco, S.H., Rappaport, N., Perkins, L. and **Hardin, J.M.** Longitudinal Relationships Between Stress and Other Factors Affecting Lipid. 34th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, American Heart Association, March 16-19, 1994.
  57. **Hardin, J.M.**, Hsu, C., Bodner, E. and Burgio, L.D. Data Management and Statistical Analysis of Real Time Observational Data Collected via Laptop Computers. 46th Annual Scientific Meeting of The Gerontological Society of America. New Orleans, Louisiana, November 19-22, 1993.
  56. Raczynski, J.M., Taylor, H., Cutter, G., Oberman, A., **Hardin, J.M.**, and Cornell, C. Access to Cardiovascular Care for Underserved Minorities: Methodological Issues Related to Clinical Investigations, Invited Presentation. The American Heart Association Meeting. Atlanta, Georgia, November 3-9, 1993.
  55. Waller, L.A., Turnbull, B.W. and **Hardin, J.M.** On Obtaining P-Values by Numerical Inversion of Characteristic Functions with Application. 1993 Joint Statistical Meetings. San Francisco, California, August 8-12, 1993.
  54. Gammon, R.B., Shin, M.S., Woolley, T.W., **Hardin, J.M.**, Groves, R.H. and Buchalter, S.E. A Multivariate Analysis of Barotrauma Risk Factors. 1993 ALA/ATS International Conference. San Francisco, California, May 16-19, 1993.
  53. Raczynski, J.M., Taylor, H., Cutter, G., **Hardin, J.M.**, Rappaport, N. and Oberman, A. Rose Questionnaire Responses among Black and White Inpatients Admitted for Coronary Heart Disease: Findings from the Birmingham-BHS Project. Meetings of the Association for Black Cardiologists. Anaheim, California, March, 1993.
  52. **Hardin, J.M.**, Hsu, C., Kokoska, S.M. and Caldwell, E. Sample Size and Power Comparisons for the Cancer Chemoprevention Experiment. The Biometric Society ENAR Spring Meeting, Joint with IMS and Sections of ASA. Philadelphia, Pennsylvania, March 21-24, 1993.
  51. Lewis, C.E., Taylor, H.A., Raczynski, J.M., Caveny, J.L. and **Hardin, J.M.** Race Differences in Outcome of Percutaneous Transluminal Coronary Angioplasty. 33rd Annual Conference on Cardiovascular Disease Epidemiology. Santa Fe, New Mexico, March 17-20, 1993.
  50. **Hardin, J.M.**, Macchiarini, P. and Singh, K.P. A Statistical Model for Investigating Adjuvant Chemotherapy in T1NOMO Non-small Cell Lung Cancer. Fourth International Congress on Anti-Cancer Chemotherapy. Paris, France, February 2-5, 1993.
  49. Keltner, B. and **Hardin, J.M.** Families in Poverty: Caregiving by Mothers with Intellectual Limitations. 1993 ASA Winter Conference. Ft. Lauderdale, Florida, January 3-5, 1993.
  48. Waller, L.A., **Hardin, J.M.** and Turnbull, B.W. A Comparison of Recent Statistical Tests of Clustering of Health Events About Putative Sources of Hazard: Assumptions, Power, and Robustness. Proceedings of Third General Meeting of the International Environmetrics Society. Helsinki University of Technology, Espoo, Finland, August 17-21, 1992.
  47. Raczynski, J.M., Taylor, H., Cutter, G., **Hardin, J.M.**, Oberman, A. and Rappaport, N. Knowledge of Heart Disease Symptoms, Preventive Actions, and Actions to be Taken for Acute Events Among African American and White Community Respondents. 4th National Forum on Cardiovascular Health, Pulmonary Disorders, and Blood Resources (Minority Health Issues for an Emerging Majority), Washington, D.C., June, 1992.

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40. **Hardin, J.M.** and Singh, K.P. On the Computation of the Doubly Noncentral T Probabilities. 24th Symposium on the Interface: Computing Science and Statistics. College Station, Texas, March 18-21, 1992.
39. Liu, K., Ruth, K., Flack, J., Burke, G., Savage, P., Liang, K.Y., **Hardin, J.M.** and Hulley, S. Ethnic Differences in 5-year Blood Pressure Change in Young Adults: The CARDIA Study. American Heart Association's 32nd Annual Conference on Cardiovascular Disease Epidemiology. Memphis, Tennessee, March 18-21, 1992.
38. Owen, J., Cliver, S.P., **Hardin, J.M.**, Goldenberg, R.L. and Hoffman, H.J. Clinical Evaluation of a Fetal Growth Prediction Model. 1992 Society of Perinatal Obstetricians Meeting. Orlando, Florida, February 3-8, 1992.
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36. Cornwell, A.R., Cornwell, P.E., Keenon, J.E., Bradley, R.L., Soong, S.J. and **Hardin, J.M.** Impact of Meals on Wheels on Nutritional Status of Homebound Elderly. Fourth Annual Southeastern Allied Health Research Symposium. Birmingham, Alabama, October 23-24, 1991.
35. **Hardin, J.M.** and Bradley, E.L. A Generalized and Unified Model for Predicting Long Term  $^{222}\text{Rn}$  Concentrations from Short Term Screening Tests. Third International Conference on Statistical Method for Environmental Sciences and the Second General Meeting of the International Environmetrics Society. Madison, Wisconsin, October 7-10, 1991.
34. Branton, S.L. and **Hardin, J.M.** The Effect of Ammonium Chloride and Sodium Bicarbonate on Strain Mycoplasma Gallisepticum Isolation. Poultry Science Association Meetings. College Station, Texas, August 16-21, 1991.
33. Singh, K.P., Mohammed, A.E., **Hardin, J.M.**, and Bartolucci, A.A. Estimating the Three-Parameter Weibull Distribution by the Method of Probability-weighted Moments. Joint Statistical Meetings. Atlanta, Georgia, August 18-21, 1991.
32. **Hardin, J.M.**, Hsu, C., Kokoska, S.M. and Grubbs, C.J. A Generalized Program for Cancer Chemoprevention Experiments. Joint Statistical Meetings. Atlanta, Georgia, August 18-21, 1991.

31. Conerly, M.D. and **Hardin, J.M.** Shrunken Estimators Via a Pitman Nearness Criterion. A Conference on Pitman's Measure of Closeness Celebrating a Decade of Renaissance. San Antonio, Texas, June 15, 1991.
30. Singh, K.P., **Hardin, J.M.**, Bartolucci, A.A. and Macchiarini, P. A Family of Non-proportional Hazards Models for Analysis of Survival Data. NATO Advanced Research Workshop in Survival Analysis and Related Topics. Ohio State University, June 6-11, 1991.
29. Macchiarini, P., Buonaguidi, R., **Hardin, J.M.** and Angeletti, C.A. Results and Prognostic Factors of Surgery in the Management of Non-small-cell Lung Cancer (NSCLC) with Solitary Brain Metastasis (SMB). Twenty- seventh Annual Meeting American Society of Clinical Oncology. Proceedings of American Society of Clinical Oncology. abs. 870, Houston, Texas, May 19-21, 1991.
28. Woolley, T.W. and **Hardin, J.M.** Hypothesis Testing, the P-value and the Bayes/Neyman-Pearson Compromise. Fourth Annual Joint Meeting of the Tennessee ASA Chapter. April 20, 1991.
27. Macchiarini, P., Fontanini, G., **Hardin, J.M.**, Pingitore, R. and Angeletti, C.A. The Low Intratumoral and Peritumoral Blood Vessel and Lymphatic Invasion Provides a Rationale of Wedge Resection (WR) for Peripheral, Node-negative Non-small Cell Lung Cancer. Future of Lung Cancer, from Biology to Treatment Symposium International. Paris, France, April 10-11, 1991.
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25. Meredith, R., Plott, G., Brezovich, I., Khazael, M., Russell, C., Wheeler, R., Saleh, M., Simpson, T., Allen, L., Spencer, S., **Hardin, J.M.**, Salter, M. and LoBuglio, A. Comparative Dosimetry with Repeat Courses of 131-I labeled Murine or Mouse/Human Chimeric Monoclonal Antibodies. International Journal of Radiation Oncology Biology -Physics. 19:252, Supplement 1, Miami, Florida, October, 1990.
24. Hine, R.J., Everson, M.P., **Hardin, J.M.**, Morgan, S.L., Alarcon, G.S., Baggott, J.E., Koopman, W.J. and Krumkieck, C.L. Methotrexate (MTX) Therapy in Rheumatoid Arthritis (RA) Patients Diminishes Lectin- induced Proliferation of Mononuclear Cells (MNC). XVIII Mexican Congress of Rheumatology. September 15, 1990.
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22. Saleh, M., Khazaeli, M., **Hardin, J.M.**, Allen, L., Rogers, K. and LoBuglio, A. Clinical Application of Chimeric Monoclonal Anti-GD2 Antibody 14.18. The 15th International Cancer Congress. Hamburg, Germany, August 16-22, 1990.
21. Khazaeli, M.B., Meredith, R.F., Harvey, E.B., **Hardin, J.M.**, Russell, C.D., Orr, R.A. and Lobuglio, A.F. Radioimmunolocalization and Pharmacokinetics 131I-labeled Murine or Mouse/Human Monoclonal Antibody 17-A in Man. The 15th International Cancer Congress. Hamburg, Germany, August 12-16, 1990.
20. **Hardin, J.M.** and Woolley, T.W. A Rationale for Teaching the Bayes/Neyman-Pearson Compromise in Introductory Biostatistics. Joint Statistical Meetings. Anaheim, California, August 5-9, 1990.
19. Khazaeli, M.B., Meredith, R.F., **Hardin, J.M.**, Orr, R.A., Baker, T.D., Russell, C.D. and LoBuglio, A.F. Pharmacokinetics of Treatment Doses of Chimera I-131 B72.3 in Colorectal Carcinoma Patients. Society of Nuclear Medicine 37th Annual Meeting. Washington, D.C., June 19-22, 1990.
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16. LoBuglio, A., Khazaeli, M., Meredith, R.F., Salter, M., **Hardin, J.M.**, Plott, E. and Russell, C. Clinical Trials with 131I-labeled Chimeric Antibodies. Advances in the Applications of Monoclonal Antibodies in Clinical Oncology. Regent's Park, London, England, May 14-16, 1990.
15. Willers, J.L., Boykin, D.L. and **Hardin, J.M.** A Simulation Study on the Relationship Between the Abundance and Spatial Distribution of Insects and Selected Schemes. Second Annual Kansas State University Conference on Applied Statistics in Agriculture. Manhattan, Kansas, April 29-May 1, 1990.
14. **Hardin, J.M.**, LoBuglio, A.F. and Khazaeli, M.B. Limited Sampling Models for HA-1A Human Monoclonal Antibody. First International Conference on Human Monoclonal Antibodies. Orlando, Florida, April 18-20, 1990.
13. Macchiarini, P., **Hardin, J.M.**, Basolo, F., Bruno, J., Chella, A. and Angeletti, C.A. Surgery Plus Adjuvant Chemotherapy (AC) for T1-3NOMO Small Cell Lung Cancer (SCLC): Rationale for Current Approach. 6th International Conference on the Adjuvant Therapy of Cancer. Tucson, Arizona, March 7-12, 1990.
12. Khazaeli, M.B., Meredith R.F., Harvey, E.B., **Hardin, J.M.**, Russell, C.D., Orr, R.A. and LoBuglio, A.F. Pharmacokinetics of 131I-Mouse/Human Monoclonal Antibody 17-1A in Man. Antibody Immunoconjugates and Radiopharmaceuticals. October 17, 1989.
11. Macchiarini, P., **Hardin, J.M.**, Simpson, T., Mussi, A. and Angeletti, C.A. Multivariate Analysis of Prognostic Factors in T1-3NOMO Small Cell Lung Cancer (SCLC) Patients Treated with Surgery Plus Adjuvant Chemotherapy. International Conference on Lung Cancer. Medical Treatment of Lung Cancer. pp. 75, Ancona, Italy, September 15-17, 1989.
10. **Hardin, J.M.** and Conerly, M.D. Biased Regression Estimators: A Pitman Nearness Approach. Joint Statistical Meetings. Washington, D.C., August 6-10, 1989.
9. Branton, S.L., Deaton, J.W., Hagler, W.M., Maslin, W.R. and **Hardin, J.M.** Decreased Egg Production in Commercial Laying Hens Fed Zearalenone- and Deoxynivalenol- contaminated Grain Sorghum. Tenth Annual Meeting of the Southern Poultry Science Society. Poultry Science, 68:173, 1989, Atlanta, Georgia, January 30-31, 1989.
8. Conerly, M.D. and **Hardin, J.M.** A Comparison of Biased Regression Estimators Using a Pitman Nearness Criterion. Joint Statistical Meetings. New Orleans, Louisiana, August 22-25, 1988.
7. Branton, S.L., Simmons, J.D. and **Hardin, J.M.** Effect of Induced Molt on the Isolation of F Strain Mycoplasma Gallisepticum. Twenty-ninth Annual Meeting, Southern Conference on Avian Diseases. Baton Rouge, Louisiana, March 17-29, 1988.
6. **Hardin, J.M.** Using Bricks to Build Property (A) Designs. Fifty-Second Annual Meeting, Mississippi Academy of Science. February, 1988.
5. Branton, S.L., Lott, B.D., Deaton, J.W. and **Hardin, J.M.** F Strain Mycoplasma Gallisepticum Vaccination of Post-production Peak Commercial Leghorns and its Effect on Egg and Eggshell Quality. Ninth Annual Meeting of the Southern Poultry Science Society. Poultry Science, 67:5, 1988, Atlanta, Georgia, January 18-19, 1988.
4. **Hardin, J.M.** Artificial Intelligence and Statistical Decision Support Systems. American Statistical

Association, Alabama Chapter Spring Meeting. Tuscaloosa, Alabama, April 25, 1987.

3. **Hardin, J.M.** and Raeth, P.G. New Artificial Intelligence Software for Statistical Decision Support Systems. Fifty-first Annual Meeting Mississippi Academy of Science. Jackson, Mississippi, February 27, 1987.
2. **Hardin, J.M.** and Raeth P.G. A New Artificial Intelligence Methodology for Developing Statistical Strategies. American Statistical Association Winter Conference. Orlando, Florida, January 7-9, 1987.
1. Gray, J. and **Hardin, J.M.** A Nonparametric Statistical Advisor. Alabama Council for Computer Education Conference. Huntsville, Alabama, February 1, 1986.

#### REVIEW OF BOOKS, ETC.:

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9. Pike, M.M., Luo, C.S., Yanagida, S., Hageman, G.R., and Anderson, P.G.:  $^{23}\text{Na}$  and  $^{31}\text{P}$  NMR Studies of Ischemia-Induced Ventricular Fibrillation: Alterations of Intracellular  $\text{Na}^+$  and Cellular Energy, **Circulation Research**, 1995; (Professional Statistical Acknowledgment).
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7. *Hardin, J.M. (Rev.)*; Staudte, R.G. and Sheather, S.J. (Auth.): Review of "Robust Estimation and Testing", **Technometrics**, 33: 478-479, 1991.
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5. Trang, J.M., LoBuglio, A.F., Wheeler, R.H., Harvey, E.B., Sun, L., Ghrayeb, J., Khazaeli, M.B.: Pharmacokinetics of a Mouse/Human Chimeric Monoclonal Antibody (C-17-1A) in Metastatic Adenocarcinoma Patients, **Pharmaceutical Research**, 7: 587-592, 1990; (Acknowledgment).
4. *Hardin, J.M. (Rev.)*; Negoita, C.A. and Ralescu, D. (Auth.): Review of "Simulation, Knowledge-based Computing and Fuzzy Statistics", **Technometrics**, 31: 129-130, 1989.
3. *Hardin, J.M. (Rev.)*; Granadesikan, M., Scheaffer, R., and Swift, J. (Auth.): Review of "The Art and Technique of Simulation", **Technometrics**, 31: 483, 1989.
2. Thompson, S.: Automatic Liquid Detection (ALAD), IOT & E, **Final Report, Tactical Air Warfare Center, Eglin Air Force Base**, Florida, June 1986; (Professional Statistical Acknowledgment and Project Statistician).
1. Navard, S.E.: Obtaining Variance Estimates from Smoothed Data Final Report, July 26, 1985, **1985 USAF-UES Summary Faculty Research Program/Graduate Student Summer Support Program**, conducted by Universal Energy Systems, Inc. under Contract No. F49620-85-C-0013, Eglin Air Force Base, Florida, (USAF Research Supervisor on this project).

#### LECTURES, TUTORIALS, PRESENTATIONS, AND SEMINAR ACTIVITY:

89. "Applied Data Mining," **Invited Address One Day Tutorial**, American Statistical Association, Joint Statistical Meeting 2010, Vancouver, Canada, August 2, 2010.
88. "An Overview of Data Mining for Epidemiology," **Invited Address**, Centers for Disease Control and Prevention (CDC), Atlanta, GA., November 16-17, 2006.

87. "An Overview of Credit Scorecard Development using SAS Enterprise Miner and SAS Credit Scoring Solution," **Invited Speaker**, Business Intelligence Symposium, Center for Management and Information Systems, Department of Information and Operations Management, Mays Business School, Texas A&M University, January 27, 2006.
86. "Data Mining Applications in Higher Education," **Invited Keynote** Presentation, Business Intelligence Symposium, University of Central Florida, Orlando, Florida, November 9, 2004.
85. "Business Applications of Data Mining," **Invited Keynote**, Business Intelligence Symposium, Pace University, New York, New York, November 20, 2004.
84. "Business Application of Data Mining," **Invited Presentation** to the Executive MBA Program, University of Texas at Austin, April 1, 2004.
83. "Data mining in the biological sciences," **Invited Departmental Seminar**, Department of Pathology, The University of Alabama at Birmingham, April 3, 2003.
82. "An Overview of Data Mining using SAS's Enterprise Miner," Statistics Colloquium Series, Sponsored by the NSF EPSCoR Initiative in Functional Genomics and the Department of Statistics, University of Kentucky, February 7, 2003.
81. "Data mining and functional genomic research," **Invited Seminar**, Department of Molecular and Biomedical Pharmacology, College of Medicine, University of Kentucky, February 6, 2003.
80. "Data Mining in Health Related Research," **Invited Day-long Seminar**, Department of Biostatistics, University of North Carolina, January 17, 2003.
79. "Large Databases, Secondary Analysis, and Data Mining," Seminar in Adult Clinical Psychology, Department of Psychology, The University of Alabama, November 18, 2002.
78. "APBRN: Palm Protocol Study," Alabama Academy of Family Practice, San Destin , FL, June 2002.
77. "Practical Applications of Data Mining," August 31, 2001, as part of Data Mining and Business: A one day seminar hosted by the Hankamer School of Business and the Office of Information Management, Baylor University.
76. "Making Your Data Count: Better Visual Displays of Your Health Information Data," **Invited Tutorial**, 2001 American Health Information Management Association 73rd National Convention, Miami, Florida, October 13 - 17, 2001.
75. "Statistical Issues in Reading Medical Literature," **Invited lecture** to Pathology residents, Department of Pathology, School of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama, February 2, 2001.
74. "Statistical Ideas and Issues in Data Mining," **Invited Seminar Presentation**, Department of Statistics, Data Mining Certificate Program, University of Central Florida, Orlando, Florida, November 20, 2000.
73. "Data Mining: An Overview, Applications, and Research Directions," **Seminar Presentation**, Department of Information Systems, Statistics, and, Management Science, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama, October 13, 2000.
72. "The Visual Display of Data for Health Information Managers," **Invited Tutorial** at 2000 American Health Information Management Association 72nd National Convention, Chicago, Illinois, September 23 - 28, 2000.
71. "Demonstration of Applications of the SAS Enterprise Miner 4.1 to the Medicare Program," **Invited Presentation**, 4th Annual Conference on Statistics in the Medicare Program, September 19-22, 2000.
70. "Analysis of Preference Data in the Central Application Office (CAO) Database (Ireland's Central College Application and Admission Office) using Data Mining Techniques," (with Clare Crinion, MS Student in Information Systems and

- Statistics), **Seminar Presentation**, Department of Management and Information Sciences and Statistics, Trinity College, University of Dublin, Dublin, Ireland, September 7, 2000.
69. “Data Mining in a Healthcare Organization,” **Invited Presentation**, Health Information Services, Blue Cross Blue Shield of Alabama, Birmingham, Alabama, May 23, 2000.
  68. “Data Mining,” **Invited Presentation**, UAB Information Technology Days, The University of Alabama at Birmingham, April 18, 2000, Birmingham, Alabama.
  67. “Data Warehousing and Data Mining: An Overview for Statisticians,” **Invited Presentation**, Seminar Series, Medical Statistics Section, Department of Medicine and the Biostatistics Unit, Comprehensive Cancer Center, The University of Alabama at Birmingham, Birmingham, Alabama, March 22, 2000.
  66. “A Demonstration of the SAS Enterprise Data Miner for Business Applications,” **Invited Presentation**, Department of Information Systems and Operations Management, Loyola University Chicago, Chicago, Illinois, February 10, 2000.
  65. “What is Data Mining?” **Invited Presentation**, Department of Information Systems and Operations Management, Loyola University Chicago, Chicago, Illinois, February 10, 2000.
  64. “Illustrations of Data Mining to Solve Business Problems,” **Invited Presentation**, Department of Information Systems and Operations Management, Loyola University Chicago, Chicago, Illinois, February 10, 2000.
  63. “Real World Data Warehousing,” **Invited Guest Lecture**, Systems Analysis Course, Department of Information Systems and Operations Management, Loyola University Chicago, Chicago, Illinois, February 9, 2000.
  62. “Data Models for Data Warehouses,” **Invited Guest Lecture**, Database Analysis and Design Course, Department of Information Systems and Operations Management, Loyola University Chicago, Chicago, Illinois, February 12, 2000.
  61. “Database Design: An Overview for Health Information Managers,” **Invited Tutorial at 1999 American Health Information Management Association National Convention**, San Diego, California, October 3-7, 1999.
  60. “Data Mining: An Overview for Business Professionals,” **Invited Seminar Presentation**, School of Business, Samford University, Birmingham, Alabama, November 4, 1999.
  59. “Data Mining: Background and Applications,” **Invited Presentation**, Department of Management and Information Sciences, and Statistics, Trinity College, University of Dublin, Dublin Ireland, September 23, 1999.
  58. “SAS Enterprise Data Miner: An Overview for Statisticians,” **Invited Presentation**, Department of Management and Information Sciences, and Statistics, Trinity College, Dublin Ireland, September 24, 1999.
  57. “Research Ideas and Conjectures on Analytical Strategies for Multi-site, Demonstration Projects,” **Invited Presentation**, Department of Management and Information Sciences, and Statistics, Trinity College, Dublin Ireland, September 24, 1999.
  56. “Data Mining Workshop,” **Tutorial**, Department of Management Science, Statistics, and Information Systems, Culverhouse College of Commerce and Business Administration, The University of Alabama, Tuscaloosa, Alabama, July 28-30, 1999.
  55. “Healthcare Applications of Data Mining,” **Invited Presentation** to the SAS Institute, April 26-27, 1999, Cary, North Carolina.
  54. “Mixed Models and Healthcare Profiling,” **Invited Lecture**, Doctoral Seminar in Maternal and Child Health, Department of Maternal and Child Health, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, March 8, 1999.
  53. “Y2K: Should We Worry?” - A Panel Discussion, **Invited Presentation and Panel Member**, Alabama Risk and Insurance Management Society Meeting, January 7, 1999, Birmingham, Alabama.
  52. “Trending Analysis for Focused Medical Review” (with Hsu, C.). Bi-Regional Statistical Working Meetings: Part B FMR

- Abserrancy Identification, Medicare. Health Care Financing Administration. Birmingham, Alabama, October 13-15, 1998.
51. "A Demonstration of the SAS Enterprise Data Miner for Medicare Applications," **Invited Presentation** Bi- Regional Statistical Working Meetings: Part B FMR Abserrancy Identification, Medicare. Health Care Financing Administration. Birmingham, Alabama, October 13-15, 1998.
  50. "Issues of Statistically Valid Random Sampling for Overpayment Assessment". Bi-Regional Statistical Working Meetings: Part B FMR Abserrancy Identification, Medicare. Health Care Financing Administration. Birmingham, Alabama, October 13-15, 1998,
  49. "Database Development for Health Information Management," **Invited Tutorial** at 1998 American Health Information Management Association National Convention, New Orleans, Louisiana, October 3-7, 1998.
  48. "Data Mining: A Primer for Health Information Managers," **Invited Tutorial** at 1998 American Health Information Management Association National Convention, New Orleans, Louisiana, October 3-7, 1998.
  47. "Multivariate Outlier Methodology for Detecting Potential Abserrant Utilization in Medicare," **Invited Presentation**, (with C. Hsu) Bi-Regional Medicare Medical Review and Medical Director Meeting. Medicare, HFCA, Atlanta, Georgia, July 8-9, 1998.
  46. "An Inter-State Program for Monitoring Utilization in Medicare," **Invited Presentation** (with C. Hsu) Bi- Regional Medicare Medical Review and Medical Director Meeting. Medicare, HFCA, Atlanta, Georgia, July 8-9, 1998.
  45. "Data Mining," **Invited Lecture**, Alabama American Health Information Management Annual Meeting, Orange Beach, Alabama, April 28, 1998.
  44. "Data Warehousing," **Invited Lecture**, Alabama American Health Information Management (AAHIM) Technology Seminar, St. Vincent's Hospital Conference & Education Center, Birmingham, Alabama, March 5, 1998.
  43. "Overview of Meta-Analysis," **Invited Lecture**, General Medicine Noon Conference, The University of Alabama at Birmingham, Birmingham, Alabama, February 10, 1998.
  42. "Correlation, Regression and Nonparametric Statistics," **Invited Lecture**, Introduction to Biostatistics and Epidemiology, Department of Oral Biology, The University of Alabama at Birmingham, Birmingham, Alabama, January 7, 1998.
  41. "Data Mining," **Invited Lecture**, 1997 American Health Information Management Association National Convention, Phoenix, Arizona, October 22, 1997.
  40. "The Big Picture of Database Development," **Invited Tutorial**, 1997 American Health Information Management Association National Convention, Phoenix, Arizona, October 19, 1997.
  39. "Data Modeling - An Essential Tool in CPR Development," **Invited Tutorial**, 1997 American Health Information Management Association National Convention, Phoenix, Arizona, October 18, 1997.
  38. "The Role of Informatics in Public Health," inaugural lecture (with Merida Johns, Ph.D.), Public Health Informatics Lecture Series, Division of Public Health Surveillance and Informatics, Centers for Disease Control and Prevention, Atlanta, Georgia, September 8, 1997.
  37. "Special Topics in Knowledge Discovery and Data Mining," **Invited Lectures**, Department of Computer and Information Science, The University of Alabama at Birmingham, Birmingham, Alabama, Fall 1997.
  36. "Data Warehousing and Data Mining," **Invited Lectures** (with Warren T. Jones), Executive Briefing for Industry Professionals, Department of Computer and Information Science, The University of Alabama at Birmingham, Birmingham, Alabama, July 18, 1997.
  35. "Bayesian Networks: Parts I and II," **Invited Lectures**, CS 798 - Seminar in Knowledge Discovery and Data Mining,

Department of Computer Sciences, The University of Alabama at Birmingham, Birmingham, Alabama, April 16 & 23, 1997.

34. "Concepts of Database Design for Public Health Professionals," **Invited Lectures**, Public Health Leadership Course #2, School of Public Health Continuing Education, The University of Alabama at Birmingham, Birmingham, Alabama, March 12, 1997.
33. "Issues in Data Management and Analysis for Real-Time Observational Computer Systems," **Seminar Speaker**, The University of Alabama at Birmingham Center for Aging Scientific Seminar, Division of Gerontology/Geriatric Medicine, Department of Medicine, The University of Alabama at Birmingham, Birmingham, Alabama, February 7, 1997.
32. "Issues of Statistically Valid Random Sampling," **Invited Speaker and Participant**, Region IV-VI Medicare Carrier Medical Director Meeting, Health Care Financing Administration, Department of Health and Human Services, Atlanta, Georgia, January 8-9, 1997.
31. "KDD and Data Mining," **Participant**, Special Research Seminar, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, December 11, 1996.
30. "Statistical Modeling for the Mammary Cancer Chemoprevention Experiment," **Invited Seminar Presentation**, Department of Applied Mathematics and Statistics, Auburn University, Auburn, Alabama, October 11, 1996.
29. "Data Mining and Knowledge Discovery," **Participant**, Laboratory Forum: Division of Laboratory Systems, PHPPPO, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia, September 4, 1996.
28. "Application of Statistics: A Personal View," **Invited Lecturer and Statistical Advisor**, The Alabama Quantitative Literacy Workshop, Department of Management Science and Statistics, The University of Alabama, Tuscaloosa, Alabama, July 16, 1996.
27. "Issues in Mathematical and Statistical Modeling: The Cancer Chemoprevention Experiment," **Invited Lecture**, Advanced Student Summer Research Program, Department of Mathematics and Statistics, University of South Alabama, Mobile, Alabama, July 15, 1996.
26. "The Statistical Analysis of the National Head Start Transition Project: An Application of Bayesian Methodology to Multi-Site Studies," **Invited Lecture**, Department of Educational Research, College of Education, The Florida State University, Tallahassee, Florida, July 1, 1996.
25. "Multivariate Statistical Methods," **Lecture**, Psychology 719, Topics in ACluster Analysis and Hierarchical Linear Models, The University of Alabama at Birmingham, Birmingham, Alabama, May 17, 1996.
24. "Topics in Regression Analysis," **Seminar Speaker**, Lipid Research Group, Diabetes Hospital, The University of Alabama at Birmingham, Birmingham, Alabama, April 12, 1996.
23. "Longitudinal Analysis Techniques for Aging Research," **Seminar Speaker**, Psychology 786, The University of Alabama at Birmingham, Birmingham, Alabama, April 4, 1996.
22. "Overview of Topics in the Statistical Adjustment of Data," **Seminar Speaker**, Lipid Research Group, Diabetes Hospital, The University of Alabama at Birmingham, Birmingham, Alabama, January 19, 1996.
21. "Overview of Database Theory with Applications to the Head Start Transition Project," **Seminar Speaker**, Psychology 727 Longitudinal Data Analysis, The University of Alabama at Birmingham, Birmingham, Alabama, January 17, 1996.
20. "Overview of Multi-site Evaluations," **Presentation**, Head Start Transition Project Data Collectors Training Meeting, The University of Alabama at Birmingham, Birmingham, Alabama, January 17, 1996.
19. "Topics in Factor Analysis," **Seminar Speaker**, Psychology 727, Longitudinal Data Analysis, The University of Alabama at Birmingham, Birmingham, Alabama, November 21, 1995.

18. "Multi-Site, Demonstration Project Research Designs - Analysis," **Seminar Speaker**, Seminar for Contemporary Issues in Developmental Psychology, Psychology 710, The University of Alabama at Birmingham, Birmingham, Alabama, November 16, 1995.
17. "Multi-Site, Demonstration Project Research Designs - Concepts," **Seminar Speaker**, Seminar for Contemporary Issues in Developmental Psychology, Psychology 710, The University of Alabama at Birmingham, Birmingham, Alabama, November 9, 1995.
16. "Typologies of Behavioral Patterns in Elderly Nursing Home Residents," **Seminar Speaker**, Center for Aging Seminar Series, The University of Alabama at Birmingham, Birmingham, Alabama, November 3, 1995.
15. "Discussion of P-values," **Seminar Speaker**, Department of Epidemiology Doctoral Seminar, The University of Alabama at Birmingham, Birmingham, Alabama, April 25, 1995.
14. "Temporal Patterns of Disruptive Vocalization in the Nursing Home," **Seminar Co-Participant**, Community Health Services, The University of Alabama at Birmingham, Birmingham, Alabama, December 2, 1994.
13. "Mathematical and Statistical Modeling for Development of Chemopreventive Drugs," **Invited Keynote Speaker**, Mathematical Awareness Week, Stillman College, Tuscaloosa, Alabama, April 27, 1994.
12. "History of Statistics in Psychology," **Seminar Speaker**, Seminar for Contemporary Issues in Developmental Psychology, Psychology 710, The University of Alabama at Birmingham, Birmingham, Alabama, Spring 1994.
11. "A Discussion of Sample Size Consideration for Psychologists," **Seminar Speaker**, Seminar for Contemporary Issues in Developmental Psychology, Psychology 710, The University of Alabama at Birmingham, Birmingham, Alabama, Spring 1994.
10. "Statistical Methodology and the Philosophy of Science," **Seminar Speaker**, Department of Management Science and Statistics, The University of Alabama, Tuscaloosa, Alabama, February 25, 1994.
9. "Contemporary Models of Leadership," co-facilitator, Division of Health Information Management Book Club, Department of Health Services Administration, School of Health Related Professions, The University of Alabama at Birmingham, Birmingham, Alabama, Fall 1993 - Spring 1994.
8. "On the Inversion of Characteristic Functions Using Symbolic Computer Packages," **Seminar Speaker**, Department of Management Science and Statistics, The University of Alabama, Tuscaloosa, Alabama, October 29, 1993.
7. "Information Technologies and the Redesign of Health Care Enterprises," **Seminar Speaker**, Lister Hill Center for Health Policy, School of Public Health, The University of Alabama at Birmingham, Birmingham, Alabama, July 14, 1993.
6. "Statistics and the Philosophy of Science," **Seminar Speaker**, Department of Biostatistics and Biomathematics, The University of Alabama at Birmingham, Birmingham, Alabama, November 22, 1991.
5. "Statistics, Science and Philosophy," **Invited Colloquium Speaker**, Department of Mathematics and Computer Science, Bloomsburg University, April 22-23, 1991.
4. "Computer Simulation and Scientific Research Methodology," **Seminar Speaker**, Seminar for Special Topics and Contemporary Issues in Psychology, Psychology 710, The University of Alabama at Birmingham, Birmingham, Alabama, 1991.
3. "Statistical Analysis of Cancer Chemoprevention Experiments," **Invited Seminar Speaker**, (with S. Kokoska), National Cancer Institute, Chemoprevention Branch, Rockville, Maryland, September 14, 1990.
2. "Multiple Comparisons in Survival Analysis," **Seminar Speaker**, Department of Entomology, Mississippi State University, Spring 1988.

1. "Survival Analysis," **Seminar Speaker**, Center for Statistical and Mathematical Services, Mississippi State University, Fall 1986.

#### **DESCRIPTION OF TEACHING ACTIVITIES:**

##### **Department of Information Systems, Statistics, and Management Science (UA)**

- Introduction to Data Mining (Graduate)
- Advanced Data Mining (Graduate)
- Statistical Data Management (using SAS) (Graduate)
- Advanced Statistical Data Management (Graduate)
- Independent Study - Statistical methods for Credit Scoring (Graduate)
- Linear Models (Graduate)
- Introduction to Mathematical Statistics 1 (Graduate)
- Introduction to Mathematical Statistics 2 (Graduate)
- Decision Modeling and Business Intelligence (Graduate/MBA)
- Introduction to Production Management
- Concepts of Probability
- Statistical Inference

##### **Department of Computer and Information Sciences (UAB)**

- Data Mining and Knowledge Discovery (Graduate)

##### **Department of Health Services Administration (UAB) Informatics Program** (Master of Science in Health Informatics)

- Advanced Network Management (Graduate)
- Decision Support Systems (Graduate)
- Health Care Facility Data Communications (Graduate)
- Information Engineering II (Graduate)
- Information Resource Management (Graduate)
- Leadership & Personal Presence for Information Technology (Graduate)
- Non-thesis Research (Graduate)
- Security, Audit, and Control (Graduate)
- Thesis Research (Graduate)

##### **Health Administration Residential Program** (Master of Science in Health Administration)

- Information Systems and Management Science in Health Services Administration (Graduate)

##### **Health Administration Executive Program** (Master of Science in Health Administration)

- Information Systems (Module) (Graduate)

##### **Administration-Health Services Ph.D. Program**

- Philosophy of Science (Graduate)
- Regression Analysis (Graduate)

##### **Department of Biostatistics and Biomathematics (UAB)**

- Advanced Analysis of Variance (Graduate)
- Advanced Special Topics in Statistics: Longitudinal Data Analysis (Graduate)
- Advanced Statistical Inference (Graduate)
- Advanced Topics in Toxicology: Biostatistical Methods for Toxicologists (Graduate)
- Bioassay (Graduate)
- Biostatistics I and II (Graduate)
- Biostatistics for Radiologists (Workshop)
- Clinical Research Course for General Medicine Fellows (Workshop)
- Continuous Data Analysis (Time Series) (Graduate)



- Data Collection and Management (Graduate)
- Design and Analysis of Clinical Dental Research (Graduate)
- Independent Study: Statistical Methods for Informatics (Graduate)
- Least Squares (Theory of Linear Models) (Graduate)
- Longitudinal Analysis (Graduate)
- Mathematical Foundations of Biostatistics (Graduate)
- Nonlinear Analysis (Graduate)
- Non-thesis Research (Graduate)
- Regression Analysis from an Applied Perspective (Graduate)
- Special Topics in Biostatistics: Hierarchical Linear Modeling II (Graduate)
- Special Topics in Biostatistics: Hierarchical Linear Modeling III (Graduate)
- Statistical Analysis II (Graduate)
- Statistical Methods in Clinical Research (Graduate)

**Department of Epidemiology (UAB)**

- Applied Longitudinal Analysis (Graduate)

**School of Public Health and Division of Continuing Medical Education – Mid-South Program for Public Health Practice (UAB)**

- Health Information Systems for Public Health Professionals (Continuing Education, Distance Learning Instructional Modality)

**Department of Oral Biology (UAB)**

- Introduction to Biostatistics and Epidemiology (Graduate)

**Department of Pharmacology and Toxicology (UAB)**

- Introduction to Biostatistics (Graduate)

**Department of Psychology (UAB)**

- Special Topics in Psychology: Hierarchical Linear Modeling I (Graduate)

**Department of Mathematics and Statistics (Mississippi State University)**

- Design and Analysis of Experiments (Graduate)
- Mathematical Statistics I and II (Graduate)
- Regression Analysis (Graduate)
- Seminar in Statistical Computer Packages (Graduate)
- Statistics for the Behavioral Sciences
- Survival Analysis (Graduate)

**Department of Mathematics and Statistics (University of West Florida)**

- Advanced Multivariable Calculus
- Mathematical Modeling
- Statistical Analysis

**Department of Management Science and Statistics (The University of Alabama)**

- Statistical Methods I - Laboratory
- Statistical Methods II – Laboratory

**Department of Mathematics and Computer Science (Florida State University)**

- FORTRAN
- Graphs and Functions for Students in Business and Social Sciences
- Introduction to Computer Use

**Department of Educational Research (Florida State University)**

- Statistical Applications in Education - Laboratory (Graduate)

## PROFESSIONAL DEVELOPMENT COURSES:

31. XML and JAVA: REAL WORLD APPLICATIONS, tutorial presented at 27<sup>nd</sup> SAS Users Group International Meeting, Orlando, Florida, April 14, 2002.
30. DECISION THEORY FOR DATA MINING, short course presented at the 2<sup>nd</sup> Annual SAS Data Mining Conference - M2000, Cary, North Carolina, October 3, 2000.
29. TELEFORM COURSE #3, USING VISUAL BASIC SCRIPTING, 2 day short course, April 17-18, 2000, San Diego, California
28. BAYESIAN BIOSTATISTICAL DATA ANALYSIS USING **BUGS** and **WINBUGS**, presented at the 2000 ENAR Meetings, Chicago, Illinois, March 20, 2000.
27. FORECASTING AND TIME SERIES ANALYSIS USING SAS, 3 day short course, November 17-19, 1999, San Francisco, California.
26. BUILDING SCL APPLICATIONS USING FRAME ENTRIES, 3 day short course, presented by SAS Institute Inc, Atlanta, Georgia, January 19 - 22, 1999.
25. UNDERSTANDING NETWORKING FUNDAMENTALS: workshop sponsored by CompuMaster, Birmingham, Alabama, September 22-23, 1998.
24. SAS ENTERPRISE MINER SOFTWARE: APPLYING DATA MINING TECHNIQUES: sponsored by SAS Institute Inc., Nashville, Tennessee, March 20, 1998.
23. DATA MINING PRIMER: OVERVIEW OF APPLICATIONS AND METHODS: sponsored by SAS Institute Inc., Nashville, Tennessee, March 18, 1998.
22. TELEFORM VERSION 5.3 TRAINING: sponsored by Cardiff Software at Linmar Business Solutions, Inc., Atlanta, Georgia, February 16-18, 1998.
21. DESIGN AND ANALYSIS OF GROUP-RANDOMIZED TRIALS: presented at Eastern North American Region Biometric Society Meetings, Memphis, Tennessee, March 25, 1997.
20. BAYES AND EMPIRICAL BAYES METHODS FOR BIOSTATISTICAL DATA ANALYSIS: presented at Eastern North American Region Biometric Society Meetings, Memphis, Tennessee, March 23, 1997.
19. DATA MINING: EXPLOITING THE DATA WAREHOUSE: presented at 22<sup>nd</sup> SAS Users Group International Meeting, San Diego, California, March 17, 1997.
18. THE SAS DATA WAREHOUSE SOLUTION: presented at 22<sup>nd</sup> SAS Users Group International Meeting, San Diego, California, March 17, 1997.
17. AN OVERVIEW OF DATA WAREHOUSING: THEORY AND BUSINESS CONCEPTS: presented at 22<sup>nd</sup> SAS Users Group International Meeting, San Diego, California, March 16, 1997.
16. TOOLS FOR DISCOVERING PATTERNS IN DATA: presented at Joint Statistical Meetings, Chicago, Illinois, August 4, 1996.
15. STATISTICAL METHODS FOR DETECTING HEALTHCARE FRAUD: presented at Joint Statistical Meetings, Chicago, Illinois, August 3, 1996.
14. MANAGING MULTIPLE PROJECTS, OBJECTIVES AND DEADLINES: presented by SkillPath, Inc. at Pickwick Place, Birmingham, Alabama, December 9, 1994.

13. LESSONS IN LEADERSHIP: presented by Dr. Denis Whatley at the Birmingham-Jefferson Civic Center, Birmingham, Alabama, October 25, 1994.
12. DESIGN AND ANALYSES OF LONGITUDINAL CLINICAL TRIAL: pre-conference course for the 13th Annual Society for Clinical Trials Meeting, taught by Drs. James Ware and Nan Laird, Philadelphia, May 10, 1992.
11. TOOLS FOR STATISTICAL INFERENCE: short course preceding Spring 1992 Biometric ENAR meeting, taught by Dr. Martin Tanner, Cincinnati, Ohio, March 22, 1992.
10. LONGITUDINAL DATA ANALYSIS: workshop sponsored by the American Statistical Association, Ft. Lauderdale, Florida, June 19-21, 1991.
9. GENERALIZED LINEAR MODELS: short course preceding Spring 1991 Biometric ENAR meeting, taught by Drs. Peter McCullagh and John Nelder, Houston, Texas, March 28, 1991.
8. PRACTICAL BIOLOGICAL MODELING: short course preceding Spring 1989 Biometric Society ENAR meeting, taught by Drs. David M. Allen and James Matis, Lexington, Kentucky.
7. CLINICAL DEVELOPMENT - BIOSTATISTICS: short course during 1988 Joint Statistical Meetings, New Orleans, Louisiana, taught by J.A. Bolognese, August 22, 1988
6. ARTIFICIAL INTELLIGENCE: three-day course conducted by Georgia Institute of Technology at Eglin Air Force Base, March 1986.
5. APPLIED MULTI-VARIATE STATISTICAL METHODS and COMBINATORIAL METHODS: two one- day tutorials sponsored by the U.S. Army Office of Scientific Research: preceded 31st Army Conference on Experimental Design in Army Research, Testing and Development, University of Wisconsin, October 1985.
4. CRITICAL PHENOMENA IN TIME SERIES ANALYSIS: in-house course sponsored by Freeman Mathematical Laboratory, Eglin Air Force Base, June-August 1985.
3. APPLIED TIME SERIES ANALYSIS: in-house course sponsored by Freeman Mathematical Laboratory, Eglin Air Force Base, June-August 1985.
2. MATHEMATICAL MODELING AND DIGITAL SIMULATION: in-house course sponsored by Freeman Mathematical Laboratory, Eglin Air Force Base, January-March 1981.
1. STOCHASTIC PROCESSES: in-house course sponsored by Freeman Laboratory, Eglin Air Force Base, January-April 1980.

ADDITIONAL GRADUATE STUDY: Department of Industrial and Systems Engineering, University of Florida Graduate Extension Center, Eglin Air Force Base, Florida,