BIOGRAPHICAL INFORMATION

Department of Business Information & Analytics
Daniels College of Business
University of Denver
Kellie.Keeling@du.edu

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Denver CO 80208
303-871-2296
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ACADEMIC EXPERIENCE

<u>**Assistant Professor**</u>, <u>**Advisor**</u>, Department of Business Information & Analytics (formerly Statistics and Operations Technology), University of Denver, Denver, CO (9/07-present)

<u>**Assistant Professor**</u>, Department of Business Information Technology, Virginia Tech, Blacksburg, VA (8/99-8/07)

<u>**Visiting Professor**</u>, Department of Finance and Decision Science, Texas Christian University, Fort Worth, TX (8/98 - 5/99; 8/97-12/97)

<u>**Adjunct Professor**</u>, Division of Business, Wayland Baptist University, Plainview, TX (1/98-3/98; 1/97-3/97)

<u>**Teaching Fellow**</u>, Department of Business Computer Information Systems, University of North Texas, Denton, TX (6/98-7/98; 9/95-8/96)

PROFESSIONAL EXPERIENCE

<u>**Graduate Advisor**</u>, University of North Texas, Denton, TX (9/96-8/98)

<u>**Programmer**</u>, Computer Programming Resource, (Database, Integration of Software), Plainview, TX (6/92-6/98)

<u>**Coordinator of Institutional Research**</u>, Wayland Baptist University (6/94-8/95)

<u>**PC Specialist**</u>, President's Office, Wayland Baptist University (8/92-5/94)

AREAS OF SPECIALIZATION
Statistical Analysis and Data Mining, Simulation and Modeling, and Statistics Education

CERTIFICATIONS: Microsoft Excel 2007, Excel 2010

EDUCATION
PhD Management Science, University of North Texas, Denton, TX, 1999
> Minor Field: Business Computer Information Systems (15 hours)
> Dissertation: **Developing Criteria for Extracting Principal Components and Assessing Multiple Significance Tests in Knowledge Discovery Applications**

MBA Management, Wayland Baptist University, Plainview, TX, 1994
> Concentration: Business Information Systems (12 hours)

BS   Mathematics, Summa Cum Laude, Wayland Baptist University, Plainview, TX, 1992
> Minors: Computer Based Information Systems and English

RESEARCH

RESEARCH PUBLICATIONS (Refereed) – 1
"Using process capability analysis and simulation to improve patient flow," Kellie B. Keeling, Evelyn Brown and John F. Kros, Applications of Management Science, Vol. 16, Fall 2013, pp. 210-229.

JOURNAL ARTICLES (Refereed) – 13
"Using network based text analysis to analyze trends in Microsoft's security innovations," Tabitha James, Lara Khansa, Deborah F. Cook, Olga Bruyaka, Kellie B. Keeling, **Computers & Security**, Vol. 36, July 2013, pp. 49-67.

"iTeaching: Using an iPad to Go Green While Supporting Teaching Efficiency," Kellie B. Keeling, ***Business Education Innovation Journal***, Vol 4, No. 2, Dec 2012, pp. 44-49.

"Statistical Accuracy of Spreadsheet Software," Kellie B. Keeling and Robert J. Pavur, ***The American Statistician***, Vol. 65, No. 4, Nov 2011, pp. 1-9.

"Employing Introductory Statistics Students at "Stats Dairy," Kellie B. Keeling, ***Teaching Statistics: An International Journal for Teachers***, Vol. 33, No. 3, Aut 2011, pp. 78-80.

"Neural Network-based Simulation Metamodels for Predicting Probability Distributions," Christopher W. Zobel and Kellie B. Keeling, *Computers & Industrial Engineering*, Vol. 54, 2008, pp.879-888.

"A Hybrid Grouping Genetic Algorithm for the Cell Formation Problem," Tabitha L. James, Evelyn C. Brown, Kellie B. Keeling, *Computers and Operations Research*, Vol. 34, No. 7, Jul 2007, pp. 2059-2079.

"A Comparative Study of the Reliability of Nine Statistical Software Packages," Kellie B. Keeling and Robert J. Pavur, *Computational Statistics and Data Analysis*, Vol. 51, No. 8, 1 May 2007, pp. 3811-3831.

"Grouping Efficiency Measures and their Impact on Factory Measures for the Machine-Part Cell Formation Problem: A Simulation Study," Kellie B. Keeling, Evelyn C. Brown, Tabitha L. James, *Engineering Applications of Artificial Intelligence*, Vol. 20, No. 1, Feb 2007, pp. 63-78.

"Does Your iPod Have a Soul? The Generation of Random Numbers," Kellie B. Keeling, *Decision Sciences Journal of Innovative Education*, Vol. 5, No. 1, Jan 2007, pp. 169 – 177.

"Modeling 95th Percentile Eigenvalues to Implement Parallel Analysis," Kellie B. Keeling and Robert J. Pavur, *International Journal of Operations & Quantitative Management*, Vol. 11, No. 2, 2005, pp. 1-12.

"A Comparison of Methods for Approximating the Mean Eigenvalues of a Random Matrix," Kellie B. Keeling and Robert J. Pavur, *Communications in Statistics: Simulation and Computation*, Vol. 33, No. 4, 2004, pp. 1-16.

"A Regression Equation for Determining the Dimensionality of Data," Kellie B. Keeling, *Multivariate Behavioral Research*, Vol. 35, No. 4, 2000, pp 457-468.

"Calculating the Cost of Year-2000 Compliance," Leon Kappelman, Darla Fent, Kellie B. Keeling and Victor Prybutok, *Communications of the ACM*, February, 1998, Vol. 41, No. 2, pp. 30-39.

BOOKS EDITED/BOOK CHAPTERS - 1

Report on the Year 2000 Problem: A Benchmarks and Status Study, Leon Kappelman and Kellie B. Keeling, In Leon Kappelman, *Year 2000: Strategies and Solutions from the Fortune 100*, editors: Leon Kappelman and Kellie B. Keeling (Boston: International Thomson Press, 1997.)

INVITED ARTICLES - 2

"Business Intelligence," *Technology Strategies for the Hospitality Industry,* Peter D. Nyheim and Daniel J. Connolly, Second Edition, Prentice Hall, 2012

"Responses from 12 Authors to the Article on 'Do Business Schools Have a Role in the Current Financial Crisis?'" *Decision Sciences Journal of Innovative Education*, Vol. 7, No. 2, July 2009, pp. 340-341.

OTHER ARTICLES – 2

Newsletter Article: In the Classroom: "Simplified Procedure for Implementing Nonparametric Tests in Excel," *Decision Line*, Decision Sciences Institute, Dec/Jan 2002

"Capacity and Availability of Year 2000 Suppliers and Service Providers," Bob Cohen, Leon Kappelman, and Kellie B. Keeling, In Leon Kappelman, editor, *Year 2000 Update: Key Issues and Research Reports*, A white paper from the Society for Information Management (SIM) International, Chicago, 1998.

ACADEMIC PRESENTATIONS - 37
PUBLISHED PROFESSIONAL PAPERS (Refereed)

"iTeaching: Using An iPad To Increase Teaching Efficiency And Enrich The Classroom Experience," Kellie B. Keeling, In **Proceedings of the 2011 Annual Decision Sciences Institute Meeting** (Boston, MA: 2011.)

"Reliability Of Spreadsheet Software: Some Traditional Tests," Kellie Keeling and Robert Pavur, In **Proceedings of the 2010 Annual Decision Sciences Institute Meeting** (San Diego, CA: 2010.)

"Estimating the Future Rate Of Poisson Events After Removing Certain Variables: Applications to Software," Matthew Lindsey, Robert Pavur, Kellie Keeling, In **Proceedings of the 2008 Annual Decision Sciences Institute Meeting** (Baltimore, MD: 2008.)

"An Introductory Data Mining Study Using SAS Enterprise Miner to Examine Missing Values," Kellie B. Keeling, **Proceedings of the 2007 Annual Southeast Decision Sciences Institute Meeting**, (Savannah, GA: 2007.)

"Numerical Accuracy Issues in Using Excel for Simulation Studies," Kellie B. Keeling, Robert J. Pavur, ***Proceedings of the 2004 Winter Simulation Conference*** (Washington, D.C: 2004.)

"Examining Numerical Accuracy of Excel 2003," Robert J. Pavur, Kellie B. Keeling, Frank Landram, ***Proceedings of the 2004 Annual Decision Sciences Institute Meeting*** (Boston, MA: 2004.)

"Estimating Locations of Mean Shifts in the Change Point Problem: A Nonparametric Approach," Kellie B. Keeling, Robert J. Pavur, Joe H. Sullivan, ***Proceedings of the 2001 Annual Decision Sciences Institute Meeting*** (San Francisco, CA: 2001.)

"Multimedia Files for Statistics Concepts used in a Simulation Course," Kellie B. Keeling, ***Proceedings of the 2001 Annual Southeast Decision Sciences Institute Meeting*** *(Charlotte, NC: 2001).*

"Information Quality of Commercial Web Site Home Pages: An Explorative Analysis," Xiaoni Zhang, Kellie B. Keeling, and Robert J. Pavur*,* ***Proceedings of the 2000 Annual International Conference on Information Systems Meeting*** (Brisbane, QLD, Australia: 2000.)

"Home Page, Sweet Home Page: An Exploratory Analysis of Web Information Quality Across Industries," Xiaoni Zhang, Kellie B. Keeling, and Robert J. Pavur, ***Proceedings of the 2000 Annual Decision Sciences Institute Meeting*** (Orlando, FL: 2000.)

"Assessing the Impact of Different Versions of Nonparametric Procedures and a Proposed Simplified Implementation Using Excel," Robert J. Pavur and Kellie B. Keeling, ***Proceedings of the 2000 Annual Southeast Decision Sciences Institute Meeting*** (Wilmington, NC: 2000.)

"A Regression Equation Predicting 95th Percentile Eigenvalues for the Parallel Analysis Criterion in Principal Components Analysis," Kellie B. Keeling and Robert J. Pavur, ***Proceedings of the 1999 Annual Decision Sciences Institute Meeting*** (New Orleans, LA: 1999.)

"Examining Estimates of a Mixture of Beta Densities to Model Observed Significance Levels from Central and Non-Central t Distributions," Kellie B. Keeling and Robert J. Pavur, ***Proceedings of the 1999 Annual Southwest Decision Sciences Institute Meeting*** *(Houston, TX: 1999.)*

"Relationships Between Cronbach's Reliability Estimate and Research Design Characteristics in Information Systems," Kellie B. Keeling and Robert J. Pavur, ***Proceedings of the 1998 Annual Decision Sciences Institute Meeting*** (Las Vegas, NV: 1998.)

"An Investigation of Previous and Proposed Methodology For Obtaining Expected Values of Eigenvalues From a Sample Correlation Matrix," Kellie B. Keeling and Robert Pavur, ***Proceedings of the 1998 Annual Southwest Decision Sciences Institute Meeting*** *(Dallas, TX:* 1998.)

PUBLISHED PROFESSIONAL PAPERS (Nonrefereed)

"A Tennis Ladder Simulation for Modeling Social versus Aggressive Competitive Behavior. Keeling, Kellie B., Scott Toney Scott, and Thomas E. Obremski, 2012. In ***JSM Proceedings*, Statistical Computing Section. Alexandria, VA: American Statistical Association**. 3383-3386.

"Comparison of Methods to Generate Eigenvalues for Parallel Analysis," Kellie B. Keeling, Robert J. Pavur, In ***JSM Proceedings, Social Statistics Section, American Statistical Association*** (Denver, CO: 2008.)

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (Nonrefereed)

"Using Excel to Implement Nonparametric Statistics," Kellie B. Keeling, **2013 Annual Decision Sciences Meeting**, (Baltimore, MD)

"Simulating a Badminton Tournament: Examining Thrown Matches," Kellie B. Keeling, **2013 Annual Southeast Decision Sciences Institute Meeting**, (Charleston, SC)

"Using Quantile Regression to Analyze Student Perception of Teaching," Kellie B. Keeling, Robert J. Pavur, **2012 Annual Decision Sciences Institute Meeting** (San Francisco, CA: 2012)

"Recommendations for Parallel Analysis Implementation," Kellie B. Keeling, Robert J. Pavur, **2012 Annual Southeast Decision Sciences Institute Meeting** (Columbia, SC: 2012)

"Analyzing Patient Flow Improvement Scenarios at a Low-Acuity Emergency Department," John Kros, Evelyn Brown, Kellie Keeling, **Society for Health Systems, Conference & Expo 2011**, (Orlando, FL: 2011)

"Does Aggressive Behavior Pay? A Tennis Ladder Simulation," Kellie Keeling and Thomas Obremski, ***Annual Southeast Decision Sciences Institute Meeting***, (Savannah, GA: 2011.)

"A Proposed Goodness-of-fit Test for the Assumptions of a Poisson Process," Bob McQuaid, Kellie Keeling, and Robert Pavur, ***Joint Statistical Meetings, American Statistical Association***. (Vancouver, Canada: 2010)

"Comparing Variable Loadings and Explained Variation for Different 'Numbers of Factors' in Principal Components Analysis," Kellie B. Keeling, **2009 Annual Southeast Decision Sciences Institute Meeting** (Wilmington, NC: 2010)

"Exploring the Benefits of Using Quantile Regression: An Evidence Based Medicine Example," Kellie B. Keeling and Robert J. Pavur, **2009 Annual Decision Sciences Institute Meeting**, New Orleans, LA, November 2009.

"Modeling a Tennis Ladder to Demonstrate Social versus Aggressive Competitive Behavior", Kellie B. Keeling and Tom Obremski, **2009 National INFORMS Meeting** (San Diego, CA: 2009.)

"Determining the Future Rate of Poisson Random Variables after Removing Variables with Too Few or Too Many Occurrences," In *Joint Statistical Meetings, American Statistical Association*. (Washington, DC: 2009)

"Comparing Different Percentiles for Parallel Analysis Implementation," Kellie B. Keeling, 2**009 Annual Southeast Sciences Institute Meeting** (Charleston, SC: 2009.)

"Cronbach's Reliability Alpha: 15 years of Information Systems, Marketing, and Management Literature," Kellie B. Keeling, Robert J. Pavur, **2008 National INFORMS Meeting** (Washington, DC: 2008.)

"Comparing Two Methods of Parallel Analysis Implementation," Kellie B. Keeling, **2008 Annual Southeast Decision Sciences Institute Meeting (**Orlando, FL: 2008.)

"Four Spreadsheet Packages: Is the Statistical Accuracy the Same?," Kellie Keeling and Robert Pavur, **2007 Annual Decision Sciences Institute Meeting** (Phoenix, AZ: 2007.)

"Computational and Graphical Insights into Leverage in Multiple Regression," Kellie B. Keeling, Constantine Loucopoulos, and Robert Pavur, *2006 Annual Decision Sciences Institute Meeting*, San Antonio, TX, November, 2006.

"Extracting Principal Components Using Mathematical Programming," Kellie B. Keeling, Constantine Loucopoulos, and Robert Pavur, *2005 Annual Decision Sciences Institute Meeting* (San Francisco, CA: 2005.)

"Which Similarity Index Should One Use in Text Retrieval: A Literature Review," Kellie B. Keeling, *2003 Annual Decision Sciences Institute Meeting* (Washington, DC: 2003.)

"A Neural Networks Approach to Estimating Mean Values of Eigenvalues for a Random Matrix and Applications to Variable Subset Selection," Robert J. Pavur and Kellie B. Keeling, *1998 National INFORMS Meeting* (Seattle, WA: 1998.)

"Information Technology Acquisition and Impact," J.R. McQuaid, Jr., Kellie B. Keeling, and Susan E. Yager, *1998 National INFORMS Meeting* (Seattle, WA: 1998.)

"Year 2000 Problem Differences Between Health Care Providers & Other Organizations," Kellie B. Keeling, *1997 National INFORMS Meeting*, Invited Paper (Dallas, TX: 1997.)

PAPERS PRESENTED AT DANIELS

Four Spreadsheet Packages: Is the Statistical Accuracy the Same? Research Brown Bag, 2/08

UNDER REVIEW

"Exploring Innovation at SAP through Bibliometric Analysis of Patent Applications," Tabitha L. James, Deborah F. Cook, Sumali Conlon, Kellie B. Keeling, Stephane Collignon, Trevor White, Journal of Information Technology

WORKING PAPERS

Exploring the Economic Values of Online User Ratings with Advertising Spending on Box-Office Sales, Young Jin Lee, Kellie B. Keeling

Comparing the valence of user text ratings of doctors and their quantitative ratings, Tabitha James, Kellie B. Keeling, and Deborah F. Cook

Examining the topics in the Decision Sciences Journal of Education with Text Analytics, Kellie B. Keeling, Deborah F. Cook, and Tabitha James

AWARDS AND GRANTS

- Interactive Poster Session Semi-Finalist, International Judging System in Figure Skating: Optimization and Analysis, INFORMS, 2011.
- Course release, Multiple Projects, 2010-2011

- Summer Research Grant, Figure Skating Scoring Optimization and Analysis, 2011
- Summer Research Grant, Cronbach Alpha meta-analysis study, 2010
- FRF Grant, Excel-based Program to Perform Parallel Analysis for Principal Components Analysis, $1,017, Summer 2009
- Course release, Cronbach Alpha meta-analysis study, 2009-2010
- FRF Grant, Comparison of Eigenvalue Generation Programs for Parallel Analysis, $1,842, 2008
- Summer Research Grant, Pamplin College of Business, Amount: $9,000, 2005

TEXTBOOKS

Concise Managerial Statistics, Alan H. Kvanli, Robert J. Pavur, and Kellie B. Keeling (Mason, Ohio: South-Western, 2006, 2008 (e-book)

Introduction to Business Statistics: A Computer Integrated, Data Analysis Approach, Alan H. Kvanli, Robert J. Pavur, and Kellie B. Keeling, Sixth Edition (Mason, Ohio: South-Western, 2003.)

PAPERS PRESENTED AT PROFESSIONAL MEETINGS (Nonrefereed)

"Team Teaching a 'Sports Statistics' Course," Kellie B. Keeling and Tom Obremski, **2009 National INFORMS Meeting** (San Diego, CA: 2009.)

"Development of a Pretest for Studying Spreadsheet Use in Undergraduate Business Statistics at a Small, Private University," Gale Baker and Kellie B. Keeling, *1997 Annual Southwest Decision Sciences Institute Meeting*, New Orleans, LA, March, 1997.

OTHER TEXTS

Instructors Manual for Database Management Systems: Designing and Building Applications by Gerald V Post. Kellie B. Keeling and Kevin G. Keeling (Columbus, OH: McGraw-Hill, 1999.)

SOFTWARE (Excel and VBA)

OM Tools, Roberta S. Russell and Kellie B. Keeling (Hoboken, New Jersey: John Wiley and Sons, 2006, 2008, 2010)

KPK Analysis Tools, Kellie B. Keeling and Robert J. Pavur (Mason, Ohio: South-Western, 2003, 2005, 2007.)

AWARDS AND GRANTS

- **Faculty Teaching Excellence**, Daniels College of Business, May 2013
- **C. Thomas Howard Endowed Teacher Scholar Award**, Daniels College of Business, May 2009
- **Faculty of the Year**, Alpha Kappa Psi, Professional Business Fraternity, Virginia Tech, 2007
- **Faculty Brother of the Month**, Oct. 2002, Sep. 2003, Sep 2004, Dec. 2005
- **Pamplin College of Business Teaching Excellence Award**, Virginia Tech, 2000-2001
- **University Certificate of Teaching Excellence**, Virginia Tech, 2001
- **Best Paper in Track**: Education - Information Technology, Southeast Decision Sciences Institute (SEDSI), 2001
- **ACITC Classroom Innovation Project Grant** - Center for Excellence in Undergraduate Teaching (CEUT), 2001.
- **Instructional Enhancement Mini-grant** - CEUT, 2000, 2005

ACADEMIC/INSTRUCTION SERVICE

- GESTEM (Girl's Exploring Science, Technology, Engineering and Math) Middle School Students, "Twitter Tweets," Apr 5, 2013, Denver Convention Center
- Competing on Analytics, **Discoveries Lecture**, September 3, 2008
- **Advisor and Internship Supervisor**, Statistics Department, September 2008-present
- **Faculty Advisor**, Alpha Kappa Psi, 2006-2007
- **Faculty Brother**, Alpha Kappa Psi, 1999-2007
- **BIT Department Liaison**, Association for Women in Computing, 2005

PRESENTATIONS (Nonrefereed)

Panel Member, "Making Statistics More Effective in Schools of Business: Introducing Students to the Analysis of Text Data," 2013 Annual Decision Sciences Institute Meeting, (Baltimore, MD).

Workshop, "Using Top Hat as an Alternative to "Clickers," 2013 Symposium for Teaching & Learning with Technology, Metropolitan State University of Denver and eLearning Consortium of Colorado, October 25, 2013.

Panel Member, "Making Statistics More Effective in Schools of Business: **Including Analytics in the Curriculum**," 2013 Annual Southeast Decision Sciences Institute Meeting, (Charleston, SC)

Panel Member, "Making Statistics More Effective in Schools of Business: Data Visualization: Tableau"**, 2012 Annual Decision Sciences Meeting,** (San Francisco, CA)

Panel Member, "Teaching and Learning Assessment"**, 2012 Annual Decision Sciences Meeting,** (San Francisco, CA)

Panel Member, "Making Statistics More Effective in Schools of Business: Data Visualization," 2012 Annual Southeast Decision Sciences Institute Meeting, Columbia, SC

Panel Member, "Role of OR/MS in Undergraduate Business Education Today," 2011 National INFORMS Meeting, (Charlotte, NC).

Poster Session, "Hybrid Delivery of a Data Mining Course," **Provost's Conference**, October 28, 2011

Invited Presentation, "Quantitative Reasoning & Digital Tools Statistics, Data Mining & Simulation", **Provost's Conference**, October 28, 2011

Invited Presentation, "Creating a Data Visualization Course", 19th Triennial Conference of the International Federation of Operational Research Societies (IFORS2011), Melbourne: AUS, July 10-15, 2011.

Panel Member, "Making Statistics More Effective in Schools of Business: Story Telling for Teaching Statistics," 2011 Annual Southeast Decision Sciences Institute Meeting, Savannah, GA, Feb, 2011.

Panel Member, "Making Statistics More Effective in Schools of Business: Developing Your Own Instructional Materials for a Quantitative Class," 2010 Annual Southeast Decision Sciences Institute Meeting, Wilmington, NC, February, 2010.

Poster Session, "CTL Education and the New Media Conference: Creating and Using Software Demonstrations with Camtasia Relay," January 2010

Panel Member, "Making Statistics More Effective in Schools of Business: Technology: Opportunities and Challenges for Statistics Education," 2009 Annual Decision Sciences Institute Meeting, New Orleans, LA, November, 2009.

Panel Member and Breakout Leader, "OR Educational Experts", **Teaching Effectiveness Colloqium, 2009 National INFORMS Meeting**, (San Diego, CA).

Panel Member, "Tools or Toys? Forum on Academic Uses of Recent Innovations," 2009 Annual Southeast Decision Sciences Institute Meeting, Charleston, SC, February, 2009.

Panel Member, "Discussion of Academic Support Products for Business Statistics Instruction," 2009 Annual Southeast Decision Sciences Institute Meeting, Charleston, SC, February, 2009.

Panel Member, "Making Statistics More Effective in Schools of Business: How Should We Teach Business Students in Introductory Statistics?" 2008 Annual Decision Sciences Institute Meeting, Baltimore, MD, November, 2008.

Invited Presentation, "Using a Tablet PC in the Statistics and Simulation Classrooms," 2008 National INFORMS Meeting, Invited Paper, Washington, DC, October, 2008.

Panel Member, "Important Issues for Statistics Instruction in Schools of Business," 2008 Annual Southeast Decision Sciences Institute Meeting, Orlando, FL, February, 2008.

Panel Member, "Challenges for the Future of Statistics in Schools of Business," 2007 Annual Decision Sciences Institute Meeting, Phoenix, AZ, November 2007.

Panel Member, "Facilitating Effective Learning in Introductory Statistics," 2006 Annual Decision Sciences Institute Meeting, San Antonio, TX, November 2006.

Panel Member, "Teaching with Technology at Virginia Tech," FDI Track A - New Faculty Computing Orientation, 8/10/2004, 8/16/2005

Workshop, "Teaching Effectiveness Workshop: Promoting Student Learning," 2005 Annual Southeast Decision Sciences Institute Meeting, Raleigh, NC, February 2005.

Workshop, "Doctoral Student/Junior Faculty Teaching Effectiveness Workshop: the Four P's of Teaching Effectively," 2004 Annual Southeast Decision Sciences Institute Meeting, Charleston, SC, February 2004.

Workshop, "Writing in your Business Course," Graduate Teaching Assistants, 8/20/2003

Workshop, "Macromedia Flash Movies as a Course Tool," 2002 Annual Southeast Decision Sciences Institute Meeting, Hilton Head, SC, February 2002.

TEACHING

INSTRUCTION
University of Denver
- STAT 1400 – Statistics II
- STAT 1020 – Analytics II: Business Statistics and Analysis
- STAT 2800 – Survey of Ops Management

Courses Developed
- STAT 3700 – Sports Statistics (with Tom Obremski)
- STAT 3700 – DSS: Excel and VBA
- STAT 3704/4704: Programming Logic and Design
- STAT 3704 – Data Visualization and Modeling

Courses with Significant Development
- STAT 3880/4880 – Data Mining I (First taught Sp '08)
- STAT 3709/4709 – Computer Simulation (First taught Aut '08)
- STAT 3350/4350 – Statistical Computing (First taught Aut '12)

Independent Studies
- STAT 3991 – IS: Six Sigma: ETL Systems Improvement (1 student S '12)
- STAT 4991 – IS: Risk Modeling Techniques (1 student S '12)
- STAT 4991 – IS: Data Mining (1 student Sum '12)
- STAT 3991 – IS: Computer Simulation (1 student W '11)
- STAT 3991 – Actuarial Probability (3 students W '10)
- STAT 3991 – IS: Business Analytics (2 students S '09)

Internships Supervised
- Stephen Hoy – (F '13)
- Allison Leininger – (S '12)
- Melissa Yurash – (F' 11)
- Brian Travis – (F '10 & W '11)
- Aaron Carmack – (W '09 & W '10)
- Christina Pryor – (S '09)
- Fallon Dubose – (W '09)

Research Advising
- STAT 4991 – Research: Text Mining with Python (1 student Sum '13)
- STAT 3991 – Research: Figure Skating Modeling (W '11)
- Undergraduate Summer Research Grant – Figure Skating Scoring (Su '10)
- STAT 3991 – Research: Honors Thesis (W '10-Su '10)
- STAT 3991 – Research: Chemistry Admissions Modeling (S '08)

MSBI Capstone Projects Supervised
- Client: B-Cycle (2 student projects Sum '13)

Virginia Tech
- BIT 4434 – Computer Simulation for Business
- BIT 5974 – Simulation Doctoral Seminar
- BIT 4994 – Simulation Modeling of a Supply Chain (Undergraduate Research)
- BIT 4994 – Simulation Modeling of a Call Center (Undergraduate Research)
- BIT 4974 – IS: Intro. to Macromedia Flash
- BIT 2405 – Quantitative Methods I

Texas Christian University
- DESC 3153 – Operations Management
- DESC 2153 – Statistical Analysis

Wayland Baptist University
- MISM 4340/4340G – Visual Business Communication
- MISM 4316/5316 – LAN Construction and Management

University of North Texas
- MSCI 3700 – Statistical Analysis I
- MSCI 3710 – Statistical Analysis II

SELECTED TEACHING PROFESSIONAL ACHIEVEMENT ACTIVITIES
Instructional Skills Workshops/Courses
Hybrid Learning Community, Faculty Study Group, Fall 2013

Teaching for Transfer, Faculty Study Group, Teaching for Transfer, Win and Spr 2013

Cultural Ethics, Daniels Faculty Friday, 4/15/2011
Academic Integrity, Daniels Faculty Friday, 2/18/2011
Academic Integrity, Bill Taylor, 1/31/2011
Business Statistics 2010 & IBM Analytics, Pearson, Apr 9-10, 2010
GAISEing Beyond the Crossroads: Improving Instruction in Introductory Statistics, CAUSE (Consortium for the Advancement of Und. Stat. Education) Summer Institute, July 6-10, 2009
Best Practices for Learning Teams, Daniels Learning Effectiveness Workshop, 3/6/2009
Blogs for Teaching and Scholarship, CTL workshop, 2/13/2009
Building an Effective Syllabus, Daniels Learning Effectiveness Workshop, 5/16/2008
Teaching Effectiveness Colloquium, INFORMS, 11/2/2007
Integrating Grading & Course Design, CTL workshop, 9/21/2007
Diversity, CTL workshop, 10/5/2007
Teaching, Scholarship and Ethical Issues, CTL workshop, 10/12/2007
Critical Thinking Workgroup, CEUT Study Group, Weekly Meetings, fall 2005
University Writing Program, May 21-25, 2001
Applied Instructional Design, FDI summer workshop Track G, May 22-25, 2000
26 Additional, 1995-2007

Teaching Technology Workshops/Courses
Hybrid Course Design, Development, and Delivery Course, Summer 2013
Data Analysis, Coursera, Jan 22-Mar 19, 2013
Teaching Online Workshop, CTL, Autumn 2011
Clickers at DU Information Session, 9/1/02009
Data Visualization (5 CEUs), statistics.com, November 21 – December 21, 2009
Summer Program for Educators Teaching Data Mining (2.7 CEUs) (Courses: SAS Programming Essentials for Educators II, Advanced Predictive Modeling Using SAS Enterprise Miner 5, Mining Textual Data Using SAS Text Miner for SAS9) SAS Institute, Cary, NC, July 21-25, 2008
Basic and Modeling Techniques with ExtendSim, March 31-April 4, 2008
SQL Processing with SAS (1.2 CEUs), SAS Institute, Cary, NC, July 20-21, 2006
Text Mining (2 CEUs), statistics.com, June 23 - July 21, 2006
Summer Program for Educators Teaching Data Mining (3.6 CEUs) (Courses: Applying Data Mining Techniques Using SAS Enterprise Miner, Predictive Modeling using SAS Enterprise Miner 5.1) SAS Institute, Cary, NC, June 26-30, 2006
10 Additional, 1997-2004

SELECTED PROFESSIONAL SERVICE

- **Associate Editor**, Decision Sciences Journal of Innovative Education, 2013-present
- **Program Chair**, Southeast Decision Sciences Institute (SEDSI), 2012-13
- **VP – Planning & Development**, SEDSI, 2009-2011
- **Website Editor,** INFORMS-ED, 2008-13
- **Website Editor, Rocky Mountain INFORMS**, 2010-13
- **VP – Member Services**, SEDSI, 2006-08
- **VP – Student Liaison**, SEDSI, 2005-06
- **Secretary**, SEDSI, 2002-03
- **Book Reviewer**, *Computer Simulation - Applying Theory to Build Credible Models and Gather Valid Results*, Book proposal, Addison-Wesley, March 2003
- **Book Reviewer**, *Simulation Using ProModel*, 2nd Edition, Mc-Graw Hill, Aug.2002
- **Book Reviewer**, *Introduction to Simulation and Risk Analysis*, James R. Evans, David L. Olson, Pre-revision review, Prentice Hall, April 2000
- **Journal Reviewer**, *Computational Statistics and Data Analysis, 2008*
- **Journal Reviewer**, *Applied Psychological Measurement*, 2002-present
- **Journal Reviewer**, *Decision Sciences Journal of Innovative Education,* 2006-present
- **Journal Reviewer**, *INFORMS Transactions on Education, 2008-present*
- **Outside Tenure Reviewer**, University of South Carolina, Aiken, Sep. 2006

- **Co-Chair**, Making Statistics More Effective In Business, 2011-present
- **Track Co-Chair**, DSI, Innovative Education, 2007; DSI, Statistics, 2008, 2011
- **Track Chair**, Student Paper Track, SEDSI, 2006; Statistics, SEDSI, 2009
- **Session Chair**, SEDSI, 2002, 2004, 2006, 2009; DSI 2010-11; INFORMS, 2008; ASA, 2009, IFORS 2011
- **Reviewer**, SEDSI, 2000-2010; SWDSI, 2003, 2013; DSI, 2000, 2004, 2007-2011
- **Discussant**, SEDSI, 2002, 2005, 2007-2011
- **Session Organizer**, "Teaching Tricks for Quantitative Analysis," SEDSI, 2009
- **Invited Focus Panel Member,** "Business Statistics 2010," Pearson, New York, NY, April 2010

ACADEMIC SERVICE - Department
- **BIA Curriculum Redevelopment Project**, May 2011-present
- **Newsletter Editor**, Statistics Department, October 2008 – 2010
- **Web Editor**, Statistics Department, August 2008 – 2010
- **Microsoft Certification Coordinator**, Statistics Department, January 2009-Mar 2010

ACADEMIC SERVICE - College
- **Daniels Undergraduate Programs Committee**, September 2007-2012; 2013-present
- **Daniels Technology Committee**, 2011-present
- **Daniels East 5th Floor Emergency Coordinator**, 2011-present
- **GPA Requirement for Daniels Study**, Spring 2009
- **ETS Assessment Committee**, 2008

CONSULTING
Biology Department, Anna Sher, Effect of Biocontrol Beetle Density Introduction on Terrestrial Arthropod Populations, 2009
Charter Growth Fund, Broomfield, CO, **Re-calibrating Achievement Gap Regression Analysis Model**, 2009