# KENNETH W. LINNA, JR.

Associate Professor

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#### **EDUCATION**

Princeton University, 1989-90. Chemical Engineering Major.

Auburn University Montgomery, 1990-93. Quantitative Methods Major. B.S.B.A., August 1993.

Auburn University Montgomery, 1993-96. M.B.A., June 1996.

University of Alabama, 1996-98. M.S. in Applied Statistics, May 1998.

*University of Alabama*, 1998-99. Ph.D. in Applied Statistics, December 1999. Dissertation title: Control Chart Performance Under Linear Covariate Measurement Processes.

### PROFESSIONAL EXPERIENCE

Academic Positions: Associate Professor, 2006-present

**Auburn University Montgomery** 

Assistant Professor, 2000-2006 Auburn University at Montgomery

Visiting Assistant Professor, 1999-2000

**Auburn University Montgomery** 

Graduate Teaching Assistant, 1996-1999

Department of Management Science and Statistics

University of Alabama

Non-academic Positions: Statistical Consultant, 1999-present, periodic

Southeast Research, Inc.

Montgomery, AL

Statistical Consultant, 2010 Panacea Consulting Group

Montgomery, AL

Statistical Consultant, 1998-1999

Capstone Medical Center

University of Alabama, Tuscaloosa, AL

Statistical Consultant, 1997-1998

Tuscaloosa Steel Corporation, Tuscaloosa, AL

Quality Engineer and Statistician, 1993-1996 Augat Wiring Systems, Montgomery, AL

Professional Affiliations: American Society for Quality

American Statistical Association

American Economic Association

Academy of Economics and Finance

Society of Business, Industry, and Economics

Honors and Awards: Richard A. Freund International Scholarship, 1998-99.

Awarded by the American Society for Quality.

National Alumni Association Fellowship, 1998-99.

Awarded by the University of Alabama Graduate School.

Graduate Council Fellowship, 1997-98. Awarded by the

University of Alabama Graduate School.

Fred A. Bostick Endowed Fellowship. Originally awarded

for 1996-97 by the University of Alabama Graduate

School. Renewed for 1997 through 1999.

### **TEACHING**

Courses taught:

University of Alabama ST 250 Statistical Methods I

ST 251 Statistical Methods II

Auburn University Montgomery QMTD 2740 Business Statistics I

QMTD 2750 Business Statistics II QMTD 6100 Business Statistics

QMTD 6740 Data Analysis for Managers INFO 5880 Data Analytics for Competitive

Advantage

ECON 4970 Special Problems: Econometrics

#### **PUBLICATIONS AND PAPERS**

Publications: Articles:

- Linna, K., Jourdan, Z., Corley, K., and Anderson, W. (2021) "An Analysis of Student Engagement Versus Performance in a Business Statistics Course during the COVID-19 Pandemic." *Online Journal of Distance Learning Administration*, Fall 2021.
- Johnson, R., Linna, K., and Newman, J. (2019) "Risk Exposure: Measurement and Management." *Journal of Applied Financial Research*, 1(1), pp. 47-60.
- Ritvo, R., Linna, K., and Radiuk, I. (2018) "NGOs in Ukraine Competencies for Effective Leadership." *International Journal of Non-Governmental Organizations*, 13(3), pp. 17-24.
- Linna, K. (2018) "Improving Shewhart Control Chart Performance in the Presence of Measurement Error Using Multiple Measurements and Two-Stage Sampling." *Journal of International and Interdisciplinary Business Research*, 5, pp. 61-65.
- Linna, K. (2016) "Improving Shewhart Control Chart Performance Using Two-Stage Sampling." *Southern Business and Economic Journal*, 39(1), pp. 18-24.
- Linna, K. (2015) "The Effect of Measurement Error on the Performance of Attributes Control Charts." 2015 Proceedings of the Society of Business, Industry and Economics, pp. 25-35.
- Linna, K., Moore, E., Paul, R., and Weinbach, A. (2014) "The Effects of the Clock and Kickoff Rule Changes on Actual and Market-Based Expected Scoring in NCAA Football." *International Journal of Financial Studies*, 2(2), pp. 179-192.

- Linna, K. (2014) "Improving Shewhart Control Chart Performance Using Two-Stage Sampling." 2014 Proceedings of the Society of Business, Industry and Economics, pp. 109-116.
- Lazarus, J., Ingram, J. and Linna, K. (2011) "Alabama Consumers' Views of Advanced Practice Nurses." *Journal of Nursing Regulation*, 2(2) pp. 24-29.
- Sanders, S., Walia, B., Potter, J., and Linna, K. (2011) "Do More Online Instructional Ratings Lead to Better Prediction of Instructor Quality?" *Practical Assessment, Research and Evaluation*, 16(2).
- Mace, Lesley and Linna, K.W. (2009) "Glass Ceilings and Gender Gaps: A Survey." International Journal of Accounting and Information Science Leadership, 2(4). Also appears in the 2009 Proceedings of the Intellectbase International Consortium.
- Moore, E. and Linna, K.W. (2008) "Effects of Changing the Kickoff Rule in NCAA Football." 2008 Proceedings of the Academy of Economics and Finance.
- Linna, K.W. and Moore, E. (2008) "Vegas Versus Pollsters: Predicting the Winners of NCAA Football Games." 2008 Proceedings of the Academy of Economics and Finance.
- Linna, K.W. and Moore, E. (2007) "The Red Shift: Voting Trends in Alabama Since the 1994 Republican Revolution." *Southern Business and Economic Journal*, 30(1-2) pp. 59-70.
- Linna, K.W. and Moore, E. (2005) "The Red Shift: Demographic Factors and Recent Voting Patterns in Alabama." 2005 Proceedings of the Academy of Economics and Finance, pp. 235-240. Also presented at the 2005 Meeting of the Academy of Economics and Finance.
- Linna, K.W. (2003) "A Note on Normal Subpopulations of Normal Distributions." *Southern Business and Economic Journal*, 26(3-4) pp. 171-177.
- Lantz, K.W., Gurley, A. L. III, and Linna, K.W. (2003) "Popular Support for the Elimination of Estate Taxes in the United States?" *Tax Notes*, Vol. 99(8) pp. 1263-1269.
- Gregorowicz, P. and Linna, K.W. (2003) "Empirical Test of the Corruption Perceptions Index." 2003 Proceedings of the Academy of Economics and Finance. Also presented at the 2003 Meeting of the Academy of Economics and Finance.
- Linna, K.W. and Woodall, W.H. (2001). "The Performance of Multivariate Control Charts in the Presence of Measurement Error." *Journal of Quality Technology*,

- Vol. 33(3) pp. 348-355. Also presented at an invited session at the 1999 Joint Statistical Meetings of the American Statistical Association.
- Linna, K.W. and Woodall, W.H. (2001). "The Effect of a Covariate Measurement Error Process on the Performance of Shewhart Control Charts." *Journal of Quality Technology*, Vol. 33(2) pp. 213-222.
- Linna, K.W. and Woodall, W.H. (1998). "Covariates and Measurement Error in Statistical Process Control." Presented at the 1998 Joint Statistical Meetings of the American Statistical Association. Also appears in the American Statistical Association's 1998 Proceedings.
  - Papers Presented (unpublished):
- Linna, K. "Relative Power Losses Due to Measurement Error in Two-Sample Tests of Location" Presented at the 2024 meetings of the Society of Business, Industry, and Economics.
- Linna, K. "A Confidence Interval-Based p-Chart Operating Under Misclassification Error." Presented at the 2019 meetings of the Society of Business, Industry, and Economics.
- Linna, K. (2018) "Improving the Performance of the p-Chart Under Misclassification Error." Presented at the 2018 meetings of the Society of Business, Industry, and Economics.
- Linna, K. (2016) "The Effect of Misclassification Error on the Performance of the p-chart." Presented at the 2016 meetings of the Society of Business, Industry, and Economics.
- Johnson, R. and Linna, K. (2015) "Risk Management: Measurement and Economic Capital." Presented at the 2015 meetings of the Society of Business, Industry, and Economics.
- Johnson, R., Linna, K., and Newman, J. (2014) "Probability Distributions: A Comparison for Risk Managers." Presented at the 2014 meetings of the Society of Business, Industry, and Economics.
- Moore, E. and Linna, K. (2011) "The Effects of the Clock Rule and Kickoff Rule Changes in NCAA Football." Presented at the 2011 meetings of the Society of Business, Industry, and Economics.
- Linna, K. W. (2009) "The Combined Effects of Measurement Error and Estimated Parameters on the Performance of Shewhart Control Charts." Presented at the 2009 meetings of the Society of Business, Industry, and Economics.

- Moore, E. and Linna, K.W. (2004). "Using a Mixture Cumulative Distribution Function in Binary Response Modeling." Presented at the 2004 Meeting of the Academy of Economics and Finance.
- McCord, L.L., McKenzie, N.J., and Linna, K.W. (2004). "Exploring the Connection Between Listening Preferences and Need for Cognition." Presented at the 2004 Meeting of the International Listening Association.
- McKenzie, N.J., McCord, L.L., and Linna, K.W. (2004). "Understanding Receiver Apprehension: Does Listening Style Matter?", by Nelya J. McKenzie, Kenneth W. Linna, & Lola L. McCord was presented at the 2004 Meeting of the International Listening Association.
- Linna, K.W., Busby, K. J., and Conerly, M. D. (2001) "Shewhart Control Chart Performance Under Estimated Control Limits in the Presence of Measurement Error." Presented at the 2001 Joint Statistical Meetings of the American Statistical Association.
- Linna, K.W. (1997). "An Analysis of the Time Series of Automobile Accidents in the State of Alabama Relative to the Speed Limit Law Change of 1996." Study conducted for the Crash Analysis Reporting Environment, a joint project of the Alabama Department of Transportation and the University of Alabama Computer Science Department.

Other Research Activity:

Work-In-Progress:

- Linna, K. "The Combined Effects of Measurement Error and Estimated Parameters on the Performance of Shewhart Control Charts."
- Linna, K. "The Effect of Misclassification Error on the Performance of the p-chart."
- Linna, K.W. "(1-ω)100% Shewhart Control Chart Designs for in the Presence of Measurement Error and Estimated Parameters." In development.
- Linna, K.W. "A Comparison of a *p*-Univariate Control Charting Scheme to Multivariate Charts in the Presence of Measurement Error." In development.
- Linna, K.W. "A Rank Sum Control Chart for Process Location." In development.
- Linna, K.W. "A Nonparametric Multiple Comparisons Procedure for the Kruskal-Wallis Test." In development.

# Editing and Reviewing:

Referee for the Journal of Quality Technology

Referee for Communications in Statistics

Referee for Statistica Sinica

Referee for the Southern Business and Economic Journal

Referee for Journal of Manufacturing Systems

## **SERVICE**

Intra-University Activities: AUM Lectures Committee, Chair, 2018-2024

AUM Administrator Evaluation Committee, 2018-

2024

AUM Faculty Senate Executive Committee, 2017-

2018

AUM Faculty Senate Committee on Course Overload Policy and Compensation, 2017-18

AUM Department of Information Systems Search

Committee, Chair, Spring 2018

AUM Faculty Senate Committee for

Interdisciplinary Program Development, Sub-group

chair, 2017

AUM Department of Information Systems Search

Committee, Chair, Spring 2017

AUM Department of Business Administration

Search Committee, Chair, Spring 2016

AUM Calendar Committee, 2014-2018

AUM Faculty Senate, 2004-2006, 2016-2018

AUM College of Business Undergraduate Curriculum Committee, 2017-present

AUM School of Business Curriculum Committee, 1999-2017 (Chair, Nov. 2004- Jan. 2006)

AUM School of Business Assessment Committee, 1999-2008

AUM School of Business MBA Policy Committee, 2002-2014

AUM Institutional Review Board, 2000-2002

AUM Research Council, 2001-2004

AUM School of Business Operations Management Taskforce, 2006-present

# PROFESSIONAL DEVELOPMENT

Consulting:

2017-2018: Statistical consulting for AUM Outreach, Office of Business and Community Initiatives

2000-present: Various statistical consulting activities performed for Southeast Research, Montgomery, AL

2003, 2010: Statistical analysis for Panacea Consulting Group, Montgomery, AL

2010-2012: Statistical analysis for the AUM Center for Business

2011-2012: Statistical analysis for Great Southern Wood Preserving Company, Abbeville, AL

2012: Statistical analysis for Matrix, LLC, Montgomery, AL

### **REFERENCES**

Dr. James Locke

Department Head, Department of Information Systems College of Business, Auburn University Montgomery

Email: jlocke@aum.edu Office: 334-244-3122

Dr. Zack Jourdan

Associate Professor, Department of Information Systems College of Business, Auburn University Montgomery

Email: sjourdan@aum.edu Office: 334-394-5940

Dr. Dong-Yop Oh

Associate Professor, Department of Information Systems College of Business, Auburn University Montgomery

Email: doh1@aum.edu Office: 334-244-3157

Dr. Jay Claiborne

Assistant Professor, Department of Information Systems College of Business, Auburn University Montgomery

Email: jcalibo1@aum.edu Office: 334-244-3471

Dr. David Ang

Professor and Past Chair, Department of Information Systems

College of Business, Auburn University Montgomery

Email: dang@aum.edu Office: 334-244-3455