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VITA

James L. Arbuckle

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PRESENT POSITION

Associate professor (1977 – present)
Department of Psychology
Temple University
Philadelphia, PA 19122

EXPERIENCE

Assistant professor (1970 – 1977)
Department of Psychology
Temple University
Philadelphia, PA 19122

EDUCATION

Michigan State University
B.S. in Mathematics, 1967

Princeton University
M.A. in Psychology, 1969

Princeton University
Ph.D. in Psychology, 1970

AREA OF RESEARCH

Structural equation modeling (SEM), focusing on the treatment of missing data, exploratory modeling and Bayesian estimation. The work on Bayesian estimation exploits Markov Chain Monte Carlo techniques. This approach has had a major impact on other data analysis techniques in the last ten years, but has not yet been employed for SEM.

TEACHING EXPERIENCE

Graduate courses in structural equation modeling, factor analysis, multidimensional scaling, and numerical methods in data analysis. Undergraduate courses in learning and statistics.

EDITORIAL EXPERIENCE

Editorial board of *Structural Equation Modeling*

PROFESSIONAL AFFILIATIONS

Psychometric Society

PUBLICATIONS

- Arbuckle, J. & Nugent, J. H. (1973). A general procedure for parameter estimation for the law of comparative judgement. *British Journal of Mathematical and Statistical Psychology*, 26, 240–260.
- Arbuckle, J. L. & Nugent, J. H. (1973). A general program for parameter estimation in Thurstone's law of comparative judgment. *Behavioral Science*, 18, 228–229.
- Arbuckle, J. & Aiken, L. S. (1975). A program for Pitman's permutation test for differences in location. *Behavior Research Methods and Instrumentation*, 7, 381.
- Arbuckle, J. & Friendly, M. L. (1975). A program for rotation to smooth functions. *Behavior Research Methods and Instrumentation*, 7, 474.
- Arbuckle, J. & Larimer, J. (1976). The number of two-way tables satisfying certain additivity axioms. *Journal of Mathematical Psychology*, 13, 89–100.
- Arbuckle, J. L. & Friendly, M. L. (1977). On rotating to smooth functions. *Psychometrika*, 42, 127–140.
- Arbuckle, J. L. (1979). Program for computing measures of association in two-way contingency tables. *Behavioral Research Methods and Instrumentation*, 11, 403.
- Arbuckle, J. L. (1979). Review of *Mathematical Tools for Applied Multivariate Analysis* by P. E. Green. *Educational and Psychological Measurement*, 39, 518–519.
- Arbuckle, J. L. (1982). Review of *Introduction to Scaling*. *Educational and Psychological Measurement*, 42, 391–393.
- Arbuckle, J. L. (1989). AMOS: Analysis of moment structures. *The American Statistician*, 43, 66.
- Arbuckle, J. L. (1994). AMOS: Analysis of moment structures. *Psychometrika*, 59, 135–137.
- Arbuckle, J. L. (1994). Advantages of model-based analysis of missing data over pairwise deletion. Presented at the RMD Conference on Causal Modeling, West Lafayette, Indiana..
- Arbuckle, J. L. (1994). A permutation test for analysis of covariance structures. Presented at the annual meeting of the Psychometric Society, University of Illinois, Champaign, Illinois.
- Arbuckle, J. L. (1994). Structural modeling using Amos. Presented at the annual meeting of the Australian Association for Social Research, Launceston, Tasmania.
- Arbuckle, J. L. (1996). Full information estimation in the presence of incomplete data. In G.A. Marcoulides & R.E. Schumacker (Eds.) *Advanced structural equation modeling: Issues and techniques*. Hillsdale, NJ: Erlbaum, 243–277.
- Arbuckle, J. L. (1996). Introduction to causal modeling in marketing research. Presented at the 14th topics seminar of the Japan Marketing Research Association, Tokyo.

- Arbuckle, J. L. (1996). Structural equation modeling with missing data using Amos. Presented at the Fifth Conference of International Federation of Classification Societies, Kobe.
- Arbuckle, J. L. (1996). Structural equation modeling is easy: An executive summary. Presented at the 56th Annual Meeting of the Academy of Management, Cincinnati, Ohio.
- Arbuckle, J. L. (1997). *Amos users' guide version 3.6*. Chicago, IL: SmallWaters.
- Arbuckle, J. L. (1997). A programmable interface to Amos. Ninth Conference on the Scientific Use of Statistical Software, University of Heidelberg, March 3-6.
- Arbuckle, J. L. (1997). Amos. *Behaviormetrika*, 24, 85-87.
- Arbuckle, J. L. (1997). Macro tools for structural equation modeling of longitudinal and multiple-group data. Presented at the Berlin Summer School Conference on Modeling Longitudinal and Multiple-group Data: Issues, Approaches, and Examples. Max Planck Institute for Human Development and Education, Berlin, Germany, June 26-30.
- Arbuckle, J. L. (1999). Amos 4.0 [Computer software]. Chicago, IL: SmallWaters.
- Arbuckle, J. L. (2000). Customizing longitudinal and multiple-group structural modeling procedures. In T.D. Little, K.U. Schnabel and J. Baumert [Eds.] *Modeling longitudinal and multilevel data: Practical issues, applied approaches, and specific examples*. Mahwah, NJ: Erlbaum, 241-248.
- Arbuckle, J. L. (2001). Small sample performance of Bayesian estimation for confirmatory factor analysis: Avoiding improper solutions. Presented at the annual meeting of the Psychometric Society, Valley Forge, Pennsylvania, June 22.
- Arbuckle, J. L. & Wothke, W. (1999). Amos 4.0 user's guide. Chicago, IL: SPSS.
- Erwin, B. A., Heimberg, R. G., Arbuckle, J., Schneier, F. & Liebowitz, M. (2000). Social anxiety: Implications for anger and anger management series. Presented at the 34th annual convention of the Association for Advancement of Behavior Therapy, November 17, New Orleans, LA.
- Wothke, W. & Arbuckle, J. L. (1995). Graphical model specification with Amos. Eighth Conference on the Scientific Use of Statistical Software, University of Heidelberg, March 28.
- Wothke, W. & Arbuckle, J. L. (1996). Full-information missing data analysis with Amos. In F. Faulbaum and W. Bandilla [Eds.] *Softstat '95: Advances in statistical software 5*. Stuttgart, Germany: Lucius & Lucius.

INVITED PRESENTATIONS AND WORKSHOPS

Arbuckle, J. L. (1995) Introduction to structural modeling with Amos. American Psychological Association Division 5 pre-convention workshop.

Arbuckle, J. L. (1995) Structural modeling with Amos. Methodology Center, College of Health and Human Development, Pennsylvania State University.

Arbuckle, J. L. & Wothke, W. (1996) Introduction to structural equation modeling with Amos. American Statistical Association Continuing Education Course, Chicago.

Arbuckle, J. L. (1996). Structural equation modeling: Amos program. Eighth invitational research seminar on advanced issues in research analysis. Case Western Reserve University.

Arbuckle, J. L. (1998). Introduction to structural equation modeling. DePauw University.

Arbuckle, J. L. (2000). Exploratory structural equation modeling. Department of Psychology colloquium series, Fordham University.

Arbuckle, J. L. (2001). Introduction to the general linear model and structural equation modeling. Nova Southeastern University.

Arbuckle, J. L. (2004). Structural equation modeling: University of Cincinnati School of Medicine.

SERVICE

University Service

1979-1983 Educational Computer Policy Committee

College Service

1979-1980 College of Liberal Arts Computer Committee

Departmental Service

1982-1984 Director of the M.A. program in psychology

1982-1984 Recruitment Committee

1982-1984 M.A. Admissions Committee

1979-1993 Computer Committee

1992-1993 Planning Committee

1996-2000 Computer and Technology Committee

Public Service

Reviews for the following journals

Child Development

Group and Organization Management

Journal of Educational and Behavioral Statistics

Journal of Research on Adolescence

Journal of Social Psychology

Organizational Research Methods

Psychological Methods

Psychometrika

Structural Equation Modeling