

Vita

NAME: Dale S. Borowiak

Present Position: Professor
Department of Statistics
The University of Akron

Educational Data:

1980 PhD - Statistics, Bowling Green State University
1976 MS - Statistics, University of Akron
1974 BS - Mathematics, University of Akron

Professional Experience:

1998 - Present	Professor, Department of Statistics, The University of Akron Akron, Ohio
1991 - 1998	Professor, Department of Mathematical Sciences, The University of Akron, Akron, Ohio
1985 - 1991	Associate Professor, Department of Mathematical Sciences, The University of Akron, Akron, Ohio
1987 - 1988	Visiting Associate Professor, Department of Mathematics and Statistics, Case Western Reserve University, Cleveland, Ohio
1980 - 1985	Assistant Professor, Department of Mathematical Sciences, The University of Akron, Akron, Ohio
1983 - 1984	Summer Faculty Fellowship, NASA Lewis Research Center, Cleveland, Ohio
1976 - 1980	Teaching Fellow and Statistical Consultant, Bowling Green State University, Bowling Green, Ohio
1974 - 1976	Teaching Assistant, The University of Akron, Akron, Ohio

Publications:

“Sensitivity analysis of the t-distribution under truncated normal populations”, with A Das, *Journal of Statistical Computation and Simulation*, 2008 Vol. 79, No 5. pp 723 - 729

“A Markov Chain Approach to Multi-Risk Strata Mortality Modeling”, publication in *ARCH* 2007.2.

An Introduction to Financial and Actuarial Statistics, 2003,
Marcel Dekker Inc.

“Quantitative relationship between energy inputs and gross domestic product”, with L. Krishna and R. Janson, *Journal of the Pennsylvania of Science*, 2000 Vol.74, No. 1 pp 29-32.

“A saddlepoint approximation for tail probabilities in collective risk models”
Journal of Actuarial Practice, Vol. 7, 1999, pp. 1 - 11.

“Insurance and annuity calculations in the presence of stochastic interest rates”
ARCH, 1999.1, pp. 445 - 450.

“Upper and lower bounds in the estimation of single decrement rates”
Expanding Horizons, No. 19, 1998, pp. 9 - 10.

“Selection of the best in a 2x2 factorial design”, with J. P. De Los Reyes,
Communications in Statistics, Vol. 21, No. 21, 1992, pp. 2493 - 2500.

“Utility of combining two diagnostic tests”, with J. F. Reed III,
Computer Methods and Programs in Biomedicine, Vol. 35, 1991,
pp. 171 - 175.

Model Discrimination for Nonlinear Regression Models, 1989, Marcel Dekker Inc.

“Efficient designs for nonlinear modeling”, *Chem. Eng. Communications*, Vol. 98,
1989, pp. 109 - 113.

“A statistical assessment of the UCKRON - 1 reaction models,” *Chem. Eng. Comm.*,
Vol. 76, 1989, pp. 35 - 40.

“A statistical assessment of the UCKRON - 1 reaction models,” International Workshop

- on Kinetic Model Development, Editor, J. Berty, 1987, pp. 1 - 10.
- “Maximum likelihood resampling based upon simple random sampling”,
Technical Report, 1988, Case Western Reserve University, Cleveland, Ohio
- “Interregional input-output model: A non-survey approach”, with R. Janson and L.
Krishna, *Modeling and Simulation*, Vol. 18, Part 1, 1988, pp. 47 - 52.
- “A dependent multiple failure mode modeling procedure,” *Communications in
Statistics*, Vol. 14, No. 8, 1985, pp. 1837 - 1848.
- “Multiple model discrimination using bootstrap resampling,” *Communications in
Statistics*, Vol. A12, No. 24, pp. 2911 - 2922.
- “A procedure for selecting between two regression models,” *Communications in
Statistics*, Vol. A10, No. 12, 1981, pp. 1197 - 1203.
- “Weighted model discrimination when the errors are multivariate normal,” Dissertation

Professional Presentations

- “Life Table Saddlepoint Approximations for Collective Risk Models,” Fifth International
Congress on Insurance : Mathematics and Economics, July 23-25, 2001, Penn
State University
- “A Moment Specific Saddlepoint Approximation for Tail Probabilities,” 230th Meeting
of the IMS, Cleveland, Ohio, 1994.
- “Ranking and Selection in 2x2 Factorial Designs”, 1991 Joint Statistical Meetings,
Atlanta, Georgia
- “A Nonlinear Shrinkage Estimator,” 1989 Joint Statistical Meetings, Washington, DC.
- “A Test of Non-nested Linear Models,” 1987 Joint Statistical Meetings, San Francisco
California
- “Stages in the Innovation Process for Animal Biotechnologies,” with R. Janson and L.
Krishna, The Ohio Academy of Sciences, University of Toledo, 1986
- “Statistical Aspects to Nonlinear Modeling,” Cleveland Chapter of the ASA,
Cleveland, Ohio

“A Nonlinear Model Discrimination Function,” 1985 Joint Statistical Meetings, Las Vegas, Nevada

“Multiple Model Discrimination Using Bootstrap Resampling,” AMSE Conference, Modeling and Simulation, Minneapolis, Minnesota, 1984.

“Relative Importance of Changing Input and Reaction Diffusion on the Control of Heavy Metal Concentration in Lake Erie Sediments,” Great Lakes Research Conference, Windsor, Canada, 1979.

“Ridge Regression,” AMS Meeting (Pi Mu Epsilon), Toronto, Canada, 1976.

Book Reviews:

Linear Models, Least Squares and Alternatives, 2nd Ed., by C. Radhakrishna Rao and H. Toutenburg, Springer Series in Statistics, *Technometrics*, Vol. 43, No. 1, 2001, pg 99

Linear Models: A Mean Model Approach, by Barry Kurt Moser, Academic Press, *Technometrics*, Vol. 39, No.4, 1997, pp. 425 - 426.

The Theory of Linear Models, by Bent Jorgensen, Chapman and Hall, *Technometrics*, Vol. 37, No. 2, 1995, pp. 456 - 457.

Mathematical Statistics and its Applications, by R.J. Larsen and M. L. Marx, Pentice Hall, *Technometrics*, Vol. 28, No.4, 1986

Data Distributions, A Statistical Handbook, by R. Christensen, *Technometrics*

Editor:

Editor-at large, Communications in Statistics

Awards:

Summer 1983-1984 NASA-ASSE Case- Lewis Summer Faculty Fellowship

Memberships in Societies :

Casualty Actuarial Society, member 1999, American Statistical Association,
Institute of Mathematical Statistics
Academic Relations Committee with Society of Actuaries