Dr. James G. Wendelberger

Resume
3 April 2013

Education:

- PhD: Statistics, Minor Mathematics
- PhD: in progress NanoScience and MicroSystems
- MS: Statistics
- BS: Physics and Mathematics

2011 – Present   Ph.D. in progress in NanoScience and MicroSystems, University of New Mexico; required course work and qualifying exam completed, comprehensive exam and thesis to complete. Courses (Cum. GPA = 4.06)

1994 - 2000   Continuous Post Graduate Courses, University of New Mexico – Los Alamos (Cumulative GPA = 3.83)

1978 - 1982   Ph.D. in **Statistics**, University of Wisconsin; Thesis Topic: Smoothing Noisy Data with Multidimensional Splines and Generalized Cross-Validation; Minor: **Mathematics**

1976 - 1978   M.S. in **Statistics**, University of Wisconsin

1971 - 1976   B.S. with distinction and a double major in **Mathematics** and **Physics**, University of Wisconsin

Employment (1982 – Present):

Director of Statistical Analysis (1992 - present), General Manager (1989-1992) and Retail Division Quantitative Analysis (1987 – 1989), Urban Science Applications, Incorporated.

Oversee and partake in the research and development needed for valid application of mathematical and statistical models to generic solutions to business problems throughout Urban Science. Participate in the subsequent interface of these models with the customer.

1983 - 1987   Senior Research Scientist, General Motors Research Laboratories. Formulate and solve statistical and mathematical models for corporate problems.

1984   Adjunct Professor for Introductory Statistics, Department of Mathematical Sciences, Oakland University.

1982 - 1983   Postdoctoral Research Associate, Department of Space Science and Engineering, University of Wisconsin.

Professional Accreditation:

Dr. James G. Wendelberger, PStat®
American Statistical Association, License Accredited Professional Statistician™
December 2012 – December 2017

Professional Experience:

2012 - 2014   Program Chair - Elect, Section on Physical and Engineering Sciences of the American Statistical Association

1998 - 1999   President, Albuquerque Chapter of the American Statistical Association

1988 - 1989   President, Detroit Chapter of the American Statistical Association

Selected Presentations:

"Effectiveness of Automobile Salesperson Training," 2 August 2012, Joint Statistical Meetings, San Diego, CA.

"Estimation of Curvature: Large Data for Small Problems," 6 June 2012, American Statistical Association Quality and Productivity Conference, CSU - Long Beach, CA.

"Statistical Engineering as Practiced at Urban Science," 31 July 2011, Joint Statistical Meetings, Miami Beach, FL.

"Statistical Engineering as Practiced at Urban Science," 29 April 2011, ASA Albuquerque Chapter Meeting, Hilton, Santa Fe, NM.

"Determining Automotive Demand: Demographic or Registration Data?," 02 August 2010, Joint Statistical Meetings, Vancouver, BC.

"Daily Gasoline Prices, Stock Market Indices, Consumer Internet Hits, Automobile Incentives And Automobile Sales, For The Forecasting Of Future Month Automobile Model Demand," 3 August 2009, Joint Statistical Meetings, Washington, D.C.

"Finding Control Markets for Automotive Incentive Marketing Campaigns," 6 August 2001, Joint Statistical Meetings, Atlanta, GA.

Patent Applied For: "SYSTEM AND METHOD FOR DETERMINING A GROUPING OF SEGMENTS WITHIN A MARKET", Serial No. 12/027,582, Filed February 7, 2008.

Patent in Progress: "MINIMAL LANCING BLOOD GLUCOSE DETECTOR," University of New Mexico Invention Disclosure Docket Number 2012-116, Joint with Patricia Langan, 2012.

Professional Solution:

Solver, Mathematics Magazine, Vol. 81, No. 3, June 2008, Problems Page 220, Number 1796.

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External Published Articles:

1. James G. Wendelberger (2012): "Effectiveness of Automobile Salesperson Training," Proceedings of the Joint Meetings of the American Statistical Association, July, San Diego, CA.
2. James G. Wendelberger (2011): *"Statistical Engineering as Practiced at Urban Science,"* Proceedings of the Joint Meetings of the American Statistical Association, July, Miami Beach, FL.
3. James G. Wendelberger (2009): *"Daily Gasoline Prices, Stock Market Indices, Consumer Internet Hits, Automobile Incentives and Automobile Sales, For the Forecasting Of Future Month Automobile Model Demand,"* Proceedings of the Joint Meetings of the American Statistical Association, August, Washington D.C.
4. James G. Wendelberger (1998): *"The Estimation of Rainfall Distribution for Emergency Response to Chernobyl Type Incidents Utilizing Multidimensional Smoothing Splines,"* Journal of Geographic Information and Decision Analysis, Vol. 2, No. 2.
5. J. Wendelberger (1987a): *"Surface Representation from Measurements: Paint Attribute Data,"* Department of Mathematics, General Motors Research Laboratories Report.
6. J. Wendelberger (1987b): *"Multiple Minima of the Generalized Cross-Validation Function: Paint Attribute Data,"* Department of Mathematics, General Motors Research Laboratories Report.
7. John K. Antonio, James G. Wendelberger, Greg P. Matthews, William G. Trabold, and Mark H. Costin (1986): "Optiscan: The Use of Reflectometry for Detecting Quality Attributes of Basecoat Paint," General Motors Research Laboratories, Warren, MI, Research Report No. ET-426/MA-357, Dec., 31 pages.
8. James G. Wendelberger and Michael A. Wincek (1986): "The Selection of a Statistical Data Analysis Computing Environment for an Industrial Research Laboratory," Computer Science and Statistics: Proceedings of the 18th Symposium on the Interface, American Statistical Association, Washington, D.C.
9. James G. Wendelberger et al (1982): "Improving Statistical Consulting Services," Proceedings of the Wisconsin Workshop on Consulting Intern Programs in Statistics, University of Wisconsin, Nov. 11-13, pp. 131-137.
10. James G. Wendelberger (1982): "Smoothing Noisy Data with Multidimensional Splines and Generalized Cross Validation," Ph.D. Thesis, Department of Statistics, University of Wisconsin, 336pp.
11. James G. Wendelberger (1982): "Estimation of Divergence and Vorticity using Multidimensional Smoothing Splines," Proceedings of the NASA Workshop on Density Estimation and Function Smoothing, Department of Mathematics, Texas A&M University, pp. 386-406.
12. James G. Wendelberger (1981): "The Computation of Laplacian Smoothing Splines with Examples," Tech. Report No. 648, Department of Statistics, University of Wisconsin.
13. Grace Wahba and Wendelberger, James G. (1980): "Some New Mathematical Methods for Variational Objective Analysis Using Splines and Generalized Cross Validation," Monthly Weather Review, Volume 108, 8, 1122-1143.