BIOGRAPHICAL SKETCH

Jacqueline J. Meulman
Professor of Applied Statistics
Institute of Mathematics, Leiden University
M.Sc. 1981 Mathematical Psychology
Ph.D. 1986 Applied Statistics
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Of my past affiliations, a highlight has been my year as consultant for Bell Telephone Laboratories in Murray Hill, NJ, from 1982-1983. In 1993, I obtained a position as Adjunct Professor in the Division of Quantitative Psychology of the University of Illinois at Urbana-Champaign. Here I collaborated for many years with Lawrence Hubert.
Being appointed as *Professor of Applied Data Theory* in the Leiden University *Faculty of Social and Behavioral Sciences* in 1998*,* I have been a statistical consultant and collaborator in many areas of research, and the group leader of major projects on *Nonlinear Multivariate Data Analysis.* The latter have resulted, among others, in the implementation of these new statistical techniques in software in the SPSS (now IBM-SPSS) package *CATEGORIES*. Since 1990, this project has generated more than $9,000,000 in revenues for the research group at Leiden University. At some point, my research interests and consultancy have switched toward biostatistics, and in 2006 I obtained a joint appointment in the Department of Mathematics*,* as *Professor of Applied Statistics*, to work in the area of *Nonlinear Dynamics of Natural Systems*. This became my main affiliation in 2009, first in co-operation with the *Leiden-Amsterdam Center of Drug Research*, in particular the *Netherlands Metabolic Center* within the *Division of Analytical Biosciences*, which is also part of the Faculty of Sciences of Leiden University. This collaboration involves the project *Megavariate diagnostics tools for system-based interventions*. In October 2012, I have been appointed full-time as Professor of Applied Statistics in the Institute of Mathematics, which ended my official affiliation with the Faculty of Social and Behavioral Sciences.
At the Mathematics Institute I am involved as Scientific Director with the first ever comprehensive Masters program in Applied Statististics, called Statistical Science. We brought together a consortium of the best instructors and world-famous researchers in applied and theoretical statistics in the Netherlands. The participants are from Leiden University (the Institute of Mathematics, the Leiden University Medical Center, the Institute of Psychology), Wageningen University and Research Center (Biometris), and the VU University Amsterdam Medical Center. For more information, see our website www.math.leidenuniv.nl/~statsci/.
Since 2001, I am collaborating with Jerome Friedman, and my frequent visits to the Department of Statistics at Stanford University have resulted since 2009 in an official appointment as Visiting Professor. In the Summer of 2010 I taught the Advanced Topics in Statistics in the Stanford Statistics Department.
My current research interests include the analysis of high-dimensional data, such as gene-disease association in genomics, and the prediction of groups on the basis of NMR and mass spectrometry data in proteomics and metabolomics. In this area, I work on the development and application of statistical learning and data mining techniques, such as nonlinear sparse regression with optimal scaling (CATREG), and clustering objects on subsets of attributes (COSA).