

## BIOGRAPHICAL SKETCH

Jacqueline J. Meulman  
Professor of Applied Statistics  
Department of Mathematics, Leiden University  
M.Sc. 1981 Mathematical Psychology  
Ph.D. 1986 Applied Statistics  
both at Leiden University, the Netherlands



I was originally appointed as *Professor of Applied Data Theory* in the *Faculty of Social and Behavioral Sciences* in 1998. Since 1993, I held 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.

Since 2006, I have a joint appointment in the *Department of Mathematics, Leiden University*, as *Professor of Applied Statistics*, and since 2009, this has become my main affiliation. The latter is in cooperation with the *Leiden-Amsterdam Center of Drug Research*, in particular the *Division of Analytical Biosciences*, which is also part of the *Faculty of Sciences of Leiden University*. This collaboration involves the project *Megavariable diagnostics tools for system-based interventions*.

Since 2001, I am collaborating with Jerome Friedman, and my frequent visits to the *Department of Statistics at Stanford University* have resulted in an official appointment in 2009 as *Visiting Professor*. I have taught the *Advanced Topics in Statistics* course in the Summer 2010.

My current research interests include the analysis of high-throughput data, such as SNPs in genome-wide association studies, gene-environment interactions in biological psychology, gene-disease association in genomics, and the prediction of groups on the basis of NMR and mass spectrometry data in proteomics and metabolomics.

Of my past affiliations, a highlight was my year as a consultant for *Bell Telephone Laboratories* in Murray Hill, NJ, from 1982-1983.

I am group leader of the *Leiden SPSS project* that has created software for *nonlinear multivariate analysis* in the SPSS package *CATEGORIES*. Since 1990, this collaboration has generated more than \$6,850,000 in revenues for the Leiden research group.

At the *Mathematics Department*, I am involved with the first ever comprehensive *masters program in applied statistics* in the Netherlands, called *Statistical Science*. We brought together a consortium of the best instructors and world-famous researchers in applied and theoretical statistics in the Netherlands from Leiden and neighboring universities. The participants are: from Leiden University, the *Institute of Mathematics*, the *Institute of Psychology*, and the *Leiden University Medical Center*; from the *VU University Amsterdam*, the *Mathematics Department* and the *VU Medical Center*; *Wageningen University and Research Center*, and the *Erasmus University Medical Center Rotterdam*. For more information, see [www.math.leidenuniv.nl/~statsci/](http://www.math.leidenuniv.nl/~statsci/).

*"I keep saying the sexy job in the next ten years will be statisticians...The ability to take data—to be able to understand it, to process it, to extract value from it, to visualize it, to communicate it—that's going to be a hugely important skill in the next decades..."*

Hal Varian, Google's Chief Economist in *The McKinsey Quarterly*, January 2009