



[Age Smilde](#) received his MSc in Econometrics at the University of Groningen in 1986. He moved to the Department of Pharmacy in the same city where he did his PhD in Analytical Chemistry. His PhD was on "Multivariate Calibration of Reversed Phase Chromatographic Systems", and he received his degree in 1990. In the year 1992, he visited the Center for Process Analytical Chemistry (Seattle, USA), where he worked together with Prof. Bruce Kowalski. In 1993 he returned to the Netherlands and in June 1993 became full professor of Process Analysis and Chemometrics (PAC) at the Faculty of Science of the University of Amsterdam. From May 2003 to August 2008, he was working part-time as programme manager biostatistics at TNO Quality of Life and continued working part-time at the University of Amsterdam.

In January 2004, he started the new group [Biosystems Data Analysis \(BDA\)](#) at the Swammerdam Institute for Life Sciences at the same university. He is the Eastern Analytical Symposium 2006 Award Recipient for Achievements in Chemometrics. In 1996 he was chairman of the Gordon Research Conference on Statistics in Chemistry and Chemical Engineering in Oxford (UK). Together with Rasmus Bro and Paul Geladi he wrote the book *Multiway Analysis: Applications in the Chemical Sciences*. His CV can be downloaded [here](#).

Research

His research interests range from metabolomics, proteomics, systems biology to biological networks in all fields of biology. The common denominator is always the combination of multivariate analysis and dynamical models to understand the underlying biology. His most recent interests are emergent properties, self-organisation, causality and evolutionary games.

Teaching

- Biosystems Data Analysis
- Bioinformatics courses
- Supervising projects in Psychobiology and Biomedical Sciences

Key publications

M.F. van Batenburg, L. Coulier, F. van Eeuwijk, A.K. Smilde & J.A. Westerhuis (2011). New figures of merit for comprehensive functional genomics data: the metabolomics case. *Analytical Chemistry*, 83(9), 3267-3274.

D.M. Hendrickx, M.M.W.B. Hendriks, P.H.C. Eilers, A.K. Smilde & H.C.J. Hoefsloot (2011). Reverse engineering of metabolic networks, a critical assessment. *Molecular Biosystems*, 7(2), 511-520.

A.K. Smilde, J.A. Westerhuis, H.C.J. Hoefsloot, S. Bijlsma, C.M. Rubingh, D.J. Vis, R.H. Jellema, H. Pijl, F. Roelfsema & J. van der Greef (2010). Dynamic metabolomic data analysis: a tutorial review. *Metabolomics*, 6(1), 3-17.

J. van Duynhoven, E.E. Vaughan, D. Jacobs, R. Kemperman, E.J.J. van Velzen, G. Gross, L. Roger, S. Possemiers, A.K. Smilde, J. Dore, J.A. Westerhuis and T. van der Wiele; The metabolic fate of polyphenols in the human superorganism, *PNAS*, 108 (2011) 4531-4538.

M.M.W.B. Hendriks, F.A. van Eeuwijk, R.H. Jellema, J.A. Westerhuis, T. Reijmers, H.C.J. Hoefsloot and A.K. Smilde; Quantitative strategies for metabolomics studies, *Trends in Analytical Chemistry (TrAC)*, 30(10 (2011) 1685-1698.

More publications can be found at the UvA-website:

<http://home.medewerker.uva.nl/a.k.smilde/publications.html>