

# LIST OF PUBLICATIONS

Pieter M. Kroonenberg;

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× **printed version available**; • digital version available; † not (yet) available

## A. Books; Dissertation, Inaugural Address, and Farewell lecture

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- ✕•Kroonenberg, P.M. (1983). *Three-mode principal component analysis. Theory and applications*. [PhD thesis] Leiden: DSWO Press (400 pp.). + Pamflet [Cited around 700 times according to Google Scholar, 2022]; Error list: Kroonenberg (1989). *Errata, comments, and reviews*. AP Reports 84-01-EX

Reviewed in:

- *Journal of Classification*, 1984, 1, 133-138; Finkbeiner.
- *Contemporary Psychology*, 1984, 29, 915-916; Koch.
- *Kwantitatieve Methoden*, 1985, 6 (17), 145-147; Ten Berge.
- *Applied Psychological Measurement*, 1985, 9, 327-332; Harshman.
- *Biometrics*, 1986, 42, 224-225; Everitt.
- *Biometrical Journal*, 1988, 30, 482-482; Partzsch.

Abstract in:

- *Dissertation Abstract International-C*, 1984, 45, 501
- *Statistica Neerlandica*, 1984, 38, 46.

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- ✕•Kroonenberg, P.M. (2005). *Datadozen: Analyse en historie*. Rede uitgesproken bij de aanvaarding van het ambt van bijzonder hoogleraar in de multivariate analyse, in het bijzonder van driewegdata aan de Universiteit Leiden, vrijdag 2 september 2005. [*Data boxes and their analysis*. Inaugural lecture as a professor of Multivariate analysis in particular of three-way data.] (<https://openaccess.leidenuniv.nl/dspace/handle/1887/3494>; both in Dutch and English).
- ✕•Kroonenberg, P.M. (2008). *Applied multiway data analysis*. Hoboken NJ: Wiley (608 pp.); [Cited about 700 times; Google Scholar, dd. 2022]
- ✕•Reviewed in;
  - *Biometrics*, 2009, 65, 670-671; Coppi.
  - Nieuwbrief Vereniging voor Ordinatie en Classificatie, 2008, 41, 4-5; Timmerman
  - International Federation of Classification Societies Newsletter, 2008, 36, 13-14; Timmerman
  - International Statistical Review, 2008, 76, 441-442; Vehkalahti.
  - Journal of the American Statistical Society, 2009, 104, 855-856; Hubert.
  - Journal of the Royal Statistical Society Series A, 2009, 172, 941-942; Hewson.
  - *Psychometrika*, 2009, 74, 179-180.; Hong
  - *Technometrics*, 2009, 51, 219; Esmali.
  - Mathematical Reviews (2008).
  - Amazon website; Coxon: [http://www.amazon.com/review/product/0470164972/ref=dp\\_db\\_cm\\_cr\\_acr\\_txt?encoding=UTF8&showViewpoints=1](http://www.amazon.com/review/product/0470164972/ref=dp_db_cm_cr_acr_txt?encoding=UTF8&showViewpoints=1).
- ✕•Kroonenberg, P.M. (2014). *De driewegwereld kent geen grenzen*. Afscheidscollege ter gelegenheid van mijn pensionering, uitgesproken op vrijdag 14 november 2014. *The three-way world knows no boundaries*. Farewell lecture. Leiden University
- ✕•Kroonenberg, P.M. (2021). *Multivariate humanities*. New York, USA: Springer Nature (435 pp.). <https://www.springer.com/gp/book/9783030691493#aboutBook>

## B. THREE-MODE ANALYSIS: Theory

### B1. Articles in international journals and chapters in edited books

#### 1980 - 1984

- ✕•Kroonenberg, P.M. & De Leeuw, J. (1980). Principal component analysis of three-mode data by means of alternating least squares algorithms. *Psychometrika*, 45, 69-97.
- ✕•Kroonenberg, P.M. (1983). Annotated bibliography of three-mode factor analysis. *British Journal of Mathematical and Statistical Psychology*, 36, 81-113.
- ✕•Kroonenberg, P.M. (1984). Three-mode principal component analysis illustrated with an example from attachment theory. In H.G. Law, C.W. Snyder Jr, J.A. Hattie, & R.P. McDonald (Eds.), *Research methods for multi-mode data analysis* (pp. 64-103). New York: Praeger.

#### 1985 - 1989

- ✕•Van der Kloot, W.A., & Kroonenberg, P.M. (1985). External analysis for three-mode principal component models. *Psychometrika*, 50, 479-494.
- ✕•Kroonenberg, P.M. , Murakami, T., Miyano, H., & Inukai, Y. (1986). Three-mode data structures, methods, models, and algorithms. A short survey [abstract]. *The Japanese Journal of Behaviormetrics*, 13, 108-109.
- ✕•Ten Berge, J.M.F., De Leeuw, J., & Kroonenberg, P.M. (1987). Some additional results on principal components analysis of three-mode data by means of alternating least squares algorithms. *Psychometrika*, 52, 183-191.
- ✕•Kroonenberg, P.M. (1988). Three-mode analysis. In S. Kotz, & N.L. Johnson (Eds.), *Encyclopedia of Statistical Sciences* (Vol. 9, pp. 231-236). New York: Wiley. [Unchanged included in S. Kotz, C. B. Read, N. Balakrishnan, B. Vidakovic (Eds.). *Encyclopedia of Statistical Sciences* (2nd Edition, pp. 8597-8602). New York: Wiley, 2005. DOI: Web address.]
- ✕•Kroonenberg, P.M. (1988). TUCKALS2. Three-mode principal component analysis with extended core matrix. In A. di Ciaccio & G. Bove (Eds.). *Multiway '88. Software guide* (pp. 93-103). Roma, Italy: Università di Roma "La Sapienza".
- •Kroonenberg, P.M. (1988). TUCKALS3. Three-mode principal component analysis. In A. di Ciaccio & G. Bove (Eds.). *Multiway '88. Software guide* (pp. 105-114). Roma, Italy: Università di Roma "La Sapienza".
- ✕•Kroonenberg, P.M. (1989). Singular value decompositions of interactions in three-way contingency tables. In R. Coppi & S. Bolasco (Eds.), *Multiway data analysis* (pp. 169-184). Amsterdam: Elsevier.
- ✕•Kroonenberg, P.M. (1989). The analysis of multiple tables in factorial ecology. III. - Three-mode principal component analysis: 'Analyse triadique complète'. *Acta Oecologica. Oecologia Generalis*, 10, 245-256.
- ✕•Kroonenberg, P.M., & Ten Berge, J.M.F. (1989). Three-mode principal component analysis and perfect congruence analysis for sets of covariance matrices. *British Journal of Mathematical and Statistical Psychology*, 43, 63-80.
- ✕•Kroonenberg, P.M., Ten Berge, J.M.F, Brouwer, P., & Kiers, H. (1989). Gram-Schmidt versus Bauer-Rutishauser in alternating least-squares algorithms for three-way data. *Computational Statistics Quarterly*, 4, 81-87.

#### 1990 - 1994

- ✕•Brouwer, P., & Kroonenberg, P.M. (1991). Some notes on the diagonalization of extended core matrices. *Journal of Classification*, 8, 93-98.
- ✕•Kiers, H.A.L., Kroonenberg, P.M., & Ten Berge, J.M.F. (1992). An efficient algorithm for TUCKALS3 on data with large numbers of observational units. *Psychometrika*, 57, 415-422.

- ✕•Kroonenberg, P.M. (1992). Three-mode component models: A survey of the literature. *Statistica Applicata. Italian Journal of Applied Statistics*, 4, 619-633.
- ✕•Kroonenberg, P.M. (1992). PARAFAC in three-way land. Comment on Leurgans and Ross. *Statistical Science*, 7, 312-314.
- ✕•Kroonenberg, P.M. (1994). The TUCKALS line: A suite of programs for three-way analysis. *Computational Statistics and Data Analysis*, 18, 73-96.

#### 1995 - 1999

- ✕•Carlier, A., & Kroonenberg, P.M. (1996). Decompositions and biplots in three-way correspondence analysis. *Psychometrika*, 61, 355-373.
- ✕•Kroonenberg, P.M., & Miyano, H. (1996). Three-mode data analysis and recent developments. *Japanese Psychological Review*, 39, 396-407.
- ✕•Kroonenberg, P.M. (1997). Recent developments in three-way analysis: A showcase of examples. In R. Klar & O. Opitz (Eds.), *Classification and knowledge organization* (pp. 44-62). Berlin: Springer. DOI: 10.1007/978-3-642-59051-1\_6.
- ✕•Kroonenberg, P.M., & Heiser, W.J. (1998). Parallel factor analysis with constraints on the configurations: An overview. In C. Hayashi, N. Ohsumi, K. Yajima, Y. Tanaka, H.-H. Bock, & Y. Baba (Eds.), *Data science, classification, and related methods* (pp. 587-597). Tokyo: Springer.
- ✕•Van Eeuwijk, F.A., & Kroonenberg, P.M. (1998). Multiplicative decompositions of interactions in three-way ANOVA, with applications to plant breeding. *Biometrics*, 54, 1315-1333.

#### 2000 - 2004

- ✕•Kroonenberg, P.M. (2001). Three-mode correspondence analysis: An illustrated exposé. In *Actes XXXIII<sup>ème</sup> Journées de Statistique* (pp. 101-108). Nantes, France. 14-18 May.
- ✕•Kroonenberg, P.M., Dunn III, W.J., & Commandeur, J.J.F. (2003). Consensus alignment based on Generalized Procrustes Analysis. *Journal of Chemical Information and Computer Science*, 43, 2025 – 2032.
- ✕•Kroonenberg, P.M. & Oort, F.J. (2003). Three-mode analysis of multimode covariance matrices. *British Journal of Mathematical and Statistical Psychology*, 56, 305-336.
- ✕•Commandeur, J.J.F., Kroonenberg, P.M., & Dunn III, W.J. (2004). A dedicated generalized Procrustes analysis algorithm for consensus molecular alignment. *Journal of Chemometrics*, 18, 37 – 42.
- ✕•Kroonenberg, P.M. (2004). Exploratory longitudinal analysis with three-mode component models. In Drosesbeke, J.J., LeJeune, M., & Saporta, G. (2004). *Analyse statistique des données longitudinales* (Chap.2, pp. 45 – 101). Luminy (Marseille), France: Société Française de Statistique (English version)..

#### 2005 - 2009

- ✕•Kroonenberg, P.M. (2005). Model selection procedures in three-mode component models. In M. Vichi, P. Molinari, S. Mignani, & A. Montanari (Eds.), *New developments in classification and data analysis*. (pp. 167 - 172). Berlin: Springer.
- ✕•Kroonenberg, P.M. (2005). Three-way component and multiway method. In B. S. Everitt and D. Howell (Eds.), *Encyclopedia of Statistics in Behavioral Science* (pp. 2032-2044). Chichester: Wiley
- ✕•Kroonenberg, P.M. & Anderson, C.J. (2006) Additive and multiplicative models for three-way contingency tables: Darroch (1974) Revisited (pp. 455-486). In M. J. Greenacre & J. Blasius (Eds.), *Multiple correspondence analysis and related methods*. Boca Raton, FL: Chapman and Hall/CRC
- ✕•Kroonenberg, P.M., Harshman, R.A., & Murakami, T. (2009). Analysing three-way profile data using the Parafac and Tucker3 models illustrated with views on parenting. *Applied Multivariate Research*, 13, 5-41.  
<http://www.phaenex.uwindsor.ca/ojs/leddy/index.php/AMR/article/view/2832/2270>

#### 2010 - 2014

- Kroonenberg, P.M. (2010). Analyse longitudinale exploratoire à l'aide de modèles à trois voies. In J.-J. Droesbeke & G. Saporta (Eds.), *Analyse statistique des données longitudinales* (Chap.4, pp. 129–182). Paris: Editions Technip (French version).
- X•Kroonenberg, P.M., & Ten Berge, J.M.F. (2011). The equivalence of Tucker3 and Parafac models with two components. *Chemometrics and Intelligent Laboratory Systems*, 106, 21–26 (doi:10.1016/j.chemolab.2010.05.022)
- X•Kroonenberg, P.M., & Van Ginkel, J.R. (2012). Combination rules for multiple imputation in three-way analysis illustrated with chromatography data. *Current Analytical Chemistry*, 8, 224-235.
- X•Kroonenberg, P.M. (2014). History of multiway component analysis and three-way correspondence analysis. In Blasius, J. and Greenacre, M.J. (Eds.). *Visualization and verbalization of data* (pp. 77–94). New York: Chapman & Hall/CRC. ISBN 9781466589803
- X•Van Ginkel, J.R., & Kroonenberg, P.M. (2014). Using Generalized Procrustes analysis for multiple imputation in principal component analysis. *Journal of Classification*, 31, 242-269.

#### 2015 - 2019

- X•Kroonenberg, P.M. (2015). Assessing factorial invariance of two-way rating designs using three-way methods. *Frontiers in Psychology*, 5, 1495, 1–13. (doi: 10.3389/fpsyg.2014.01495).
- X•Kroonenberg, P.M. (2015). Three-mode component and scaling models. In B. S. Everitt and D. Howell (Eds.), *Encyclopedia of Statistics in Behavioral Science – 2<sup>nd</sup> edition* (pp. 2032-2044). Chichester: Wiley. (doi: 10.1002/9781118445112.stat06459.pub2; identical to 1<sup>st</sup> edition, 2005; also on-line)
- X•Van Ginkel, J.R., & Kroonenberg, P.M. (2017). Evaluation of multiple imputation procedures for three-mode component models *Journal of Statistical Computation and Simulation*, 14, 3059-3081 (doi: 10.1080/00949655.2017.1355368).

#### 2020 - 2029

- X•Kroonenberg, P. M. (2020). Multiway extensions of the SVD. In Imaizumi, T., Nakayama, A. & Yokoyama, S. (Eds.), *Advanced Studies in Behaviormetrics and Data Science* (pp.141-157). Singapore: Springer Nature. ISBN 978-981-15-2699-2.
- X•Kroonenberg, P. M. & Harshman, R. A. (2020). Cattell's parallel proportional profiles. The triumph of a prodigal rotation. *Journal of Chemometrics*, 35,000-000. doi=10.1002/cem.3235
- X•Lombardo, R., Beh, E. J., & Kroonenberg, P. M. (2021). Symmetrical and non-symmetrical variants of three-way correspondence analysis for ordered variables. *Statistical Science*, 36, 542-561. Doi=10.1214/20-STS814
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### B2. Articles in Dutch journals

- X•Kroonenberg, P.M., & De Leeuw, J. (1978). TUCKALS2: Een hoofdassenanalyse voor drieweggegevens [TUCKALS2: A principal component analysis for three-mode data]. *Methoden en Data Nieuwsbrief*, 3(3), 30-53.
- X•Kroonenberg, P.M. (1982). User's guide to TUCKALS3: A program for three-mode principal component analysis. *Kwantitatieve Methoden*, 3(6), 65-94.
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## C. THREE-MODE ANALYSIS: Applications

### C1 Articles in international journals and chapters in edited books

#### 1980 - 1989

- ✕•Van der Kloot, W.A. & Kroonenberg, P.M. (1982). Group and individual implicit theories of personality. An application of three-mode principal component analysis. *Multivariate Behavioral Research*, 17, 471-492..
- ✕•Kroonenberg, P.M. (1985). Three-mode analysis of semantic differential data: The case of a triple personality. *Applied Psychological Measurement*, 9, 83-94.
- ✕•Kroonenberg, P.M., Lammers, C.J., & Stoop, I. (1985). Three-mode principal component analysis of multivariate longitudinal organizational data. *Sociological Methods & Research*, 14, 99-136.
- ✕•Van der Kloot, W.A., Kroonenberg, P.M., & Bakker, D. (1985). Implicit theories of personality: Further evidence of extreme response style. *Multivariate Behavioral Research*, 20, 369-387 .
- ✕•Kroonenberg, P.M., & Miyano, H. (1986). Tucker2 moderuniyora tahenryo jikeiretu deta nokaiseki - takaku seityo deta (Analysis of multivariate longitudinal data by the Tucker2 model - Growth curve data). *Bulletin of IPRI*, Nr. 105,1-7.
- ✕•Takeuchi, H., Kroonenberg, P.M., Taya, H., Miyano, H. (1986). Onreikan kansitukan ni kansuru kotoba no imi no bunseki (An analysis of Japanese words referring to thermal sensation). *Mathematical Linguistics*, 15, 201-209.
- ✕•Kroonenberg, P.M. (1987). Multivariate and longitudinal data on growing children. Introduction to the proposed analyses (pp. 7 - 11) Multivariate and longitudinal data on growing children. Solutions using a three-mode principal component analysis and some comparison results with other approaches (pp. 89 - 112). In J. Janssen, F. Marcotorchino, & J.M. Proth (Eds.), *Data analysis. The ins and outs of solving real problems*. New York: Plenum.
- ✕•Kroonenberg, P.M., & Ten Berge, J.M.F. (1987). Cross-validation of the WISC-R factorial structure using three-mode principal components analysis and perfect congruence analysis. *Applied Psychological Measurement*, 11, 195-210.
- ✕•Kroonenberg, P.M., & Basford, K.E. (1989). An investigation of multi-attribute genotype response across environments using three-mode principal component analysis. *conguence. International Journal of Plant Breeding*, 44, 109-123.
- ✕•Kroonenberg, P.M., & Snyder Jr, C.W. (1989). Individual differences in assimilation resistance and affective responses in problem solving. *Multivariate Behavioral Research*, 24, 257-284 .

#### 1990 - 1994

- ✕•Basford, K.E., Kroonenberg, P.M., DeLacy, I.H., & Lawrence, P.K. (1990). Multiattribute evaluation of regional cotton variety trials. *Theoretical and Applied Genetics*, 79, 225-234.
- ✕•Kroonenberg, P.M. (1990). Review of J.-B. Lohmöller, "Latent variable path modeling with partial least squares.". *Journal of the American Statistical Association*, 85, 909-910.
- ✕•Kroonenberg, P.M. (1990). Three-mode analysis by example. In J. Vázquez (Ed.). *Metodología da investigación científica* (pp. 105-126). Santiago de Compostela, Spain: Universidade Servicio de Publicacions e Intercambio Científico.
- ✕•Basford, K.E., Kroonenberg, P.M., & DeLacy, I.H. (1991). Three-way methods for multiattribute genotype by environment data: An illustrated partial survey. *Field Crops Research*, 27, 131-157. [An earlier version appeared in M.S. Kang (Ed.), *Genotype-by-environment interaction and plant breeding* (pp. 234-260). Baton Rouge, LA: Louisiana State University.]
- ✕•Neal, R.J., Snyder Jr., C.W., & Kroonenberg, P.M. (1991). Individual differences and segment interactions in throwing. *Human Movement Science*, 10, 653-676.

### 1995 - 1999

- ✕•Kroonenberg, P.M., Basford, K.E., & Ebskamp, A.G.M. (1995). Three-way cluster and component analysis of maize variety trials. *Euphytica. International Journal of Plant Breeding*, 84, 31-42.
- ✕•Kroonenberg, P.M., Basford, K.E., & Van Dam, M. (1995). Classifying infants in the Strange Situation with three-way mixture method clustering. *British Journal of Psychology*, 86, 397-418.
- ✕•Pittam, J., Gallois, C., Iwawaki, S., Kroonenberg, P.M. (1995). Australian and Japanese concepts of expressive behavior. *Journal of Cross-Cultural Psychology*, 26, 451-473.
- ✕•Van Eeuwijk, F.A., & Kroonenberg, P.M. (1995). The simultaneous analysis of genotype by environment interaction for a number [of] traits using three-way multiplicative modelling. *Biuletyn Oceny Odmian/Cultivar Testing Bulletin*, 26/27, 83-96.
- ✕•Basford, K.E., Kroonenberg, P.M., & Cooper, M. (1996). Three-mode analytical methods for crop improvement programs. In M. Cooper & G.L. Hammer (Eds.), *Plant adaptation and crop improvement* (pp. 291-305). Wallingford, UK/New York: CAB International.
- ✕•Chapman, S.C., Crossa, J., Basford, K.E., & Kroonenberg, P.M. (1997). Genotype by environment effects and selection for drought tolerance in tropical maize. II. Three-mode pattern analysis. *Euphytica. International Journal of Plant Breeding*, 95, 11-20.
- ✕•Kroonenberg, P.M., & Kashima, Y. (1997). Rules in context: A three-mode principal component analysis of Mann et al.'s data of cross-cultural differences in respect for others. *Journal of Cross-Cultural Psychology*, 28, 463-480.
- ✕•Carlier, A. & Kroonenberg, P.M. (1998). The case of the French cantons: An application of three-way correspondence analysis: In J. Blasius and M. Greenacre (Eds.), *Visualization of categorical data* (pp. 253-275). New York: Academic Press.
- ✕•Veldscholte, C., Kroonenberg, P.M., & Antonides, G. (1998). Three-mode perceptions of economic activities in Eastern and Western Europe. *Journal of Economic Psychology*, 19, 321-351.
- ✕•Kroonenberg, P.M. (1998). Studying the diffusion of three-mode analysis in chemistry: Design considerations. In A. Rizzi, M. Vichi & H.-H. Bock (Eds.), *Advances in data science and classification* (IFCS-98, pp. 603-611). Berlin: Springer.
- ✕•Kroonenberg, P.M. (1999). Three-mode data analysis at work: A casebook. *Bulletin of the International Statistical Institute, 52<sup>nd</sup> Session, Vol. LVIII*, Helsinki, Finland.

### 2000 - 2009

- ✕•Gilbert, D.A., Sutherland, M., & Kroonenberg, P.M. (2000). Exploring subject-related interactions in repeated measures data using three-mode principal components analysis *Nursing Research*, 49, 57-61.
- ✕•De la Vega, A.J., Hall, A.J., & Kroonenberg, P.M. (2002). Investigating the physiological bases of predictable and unpredictable genotype by environment interactions using three-mode pattern analysis. *Field Crops Research*, 78, 165-183.
- ✕•Kroonenberg, P.M., Murakami, T., & Coebergh, J.W. (2002). Added value of three-way methods for the analysis of mortality trends illustrated with world-wide female cancer mortality (1968-1985). *Statistical Methods in Medical Research*, 11, 275-292
- ✕•Murakami, T., & Kroonenberg, P.M. (2003). Three-mode models and individual differences in semantic differential data. *Multivariate Behavioral Research*, 38, 87-96.
- ✕•Kroonenberg, P.M., Basford, K.E., & Gemperline, P. (2004). Grouping three-mode data with mixture methods: The case of the diseased blue crabs. *Journal of Chemometrics*, 18, 508-518.
- ✕•Kroonenberg, P.M., & Röder, I. (2008). Situational dependence of emotions and coping strategies in children with asthma. A three-mode component analysis (pp. 181-188). In K. Shigemasu, A. Okada, T. Imaizumi, & T. Hoshino (Eds.), *New trends in psychometrics*. Tōkyō: Universal Academy Press (ISBN: 4-904164-06-7).

- ✕•Redden, R.J., Basford, K.E., Kroonenberg, P.M., Islam, F.M.A., Ellis, R., Wang, S., Yongsheng, C., and Wang, X. (2009). Variation in adzuki bean (*Vigna angularis*) germplasm grown in China. *Crop Science*, *49*, 771-782.

#### 2010 - 2014

- ✕•Arief, V.N., Kroonenberg, P.M., DeLacy, I.H., Dieters, M.J., Crossa, J., Dreisigacker, S., Braun H.-J., & Basford, K.E. (2010). Construction and three-way ordination of the Wheat Phenome Atlas. *Journal of Applied Probability and Statistics*, *5*, 95-118.
- ✕•Spain, S.M., Miner, A.G., Kroonenberg, P.M., & Drasgow, F. (2010). Job performance as multivariate dynamic criteria: experience sampling and multiway component analysis. *Multivariate Behavioral Research*, *45*, 599-626.
- ✕•Redden, R.J., Kroonenberg, P.M., & Basford, K.E. (2012). Adaptation analysis of diversity in adzuki germplasm introduced into Australia. *Crop & Pasture Science*, *63*, 142–154.
- ✕•Maes, P.-J., Van Dyck, E., Lesaffre, M., Leman, M., & Kroonenberg, P.M. (2014). The coupling of action and perception in musical meaning formation: A case study with Brahms' First Piano Concerto. *Music Perception*, *32*, 67–84.

#### 2015 - 2019

- ✕•Bain, P.G., Kroonenberg, P.M. & Kashima, Y. (2015). Cultural beliefs about societal change: A three-mode principal component analysis in China, Australia, and Japan. Cultural beliefs about societal change. *Journal of Cross-Cultural Psychology*, *46*, 635–651. ([doi: 10.1177/0022022115578005](https://doi.org/10.1177/0022022115578005)).
- ✕•Lombardo, R., Beh, E., & Kroonenberg, P.M. (2016). Modelling trends in ordered correspondence analysis using orthogonal polynomials. *Psychometrika*, *81*, 325-349 ([doi: 10.1007/s11336-015-9448-y](https://doi.org/10.1007/s11336-015-9448-y)).
- ✕•Kroonenberg, P.M. (2016). My multiway analysis: From Jan de Leeuw to TWPack and back. *Journal of Statistical Software*, *73* (3), 1-22 ([doi: 10.18637/jss.v073.i03](https://doi.org/10.18637/jss.v073.i03)).
- ✕•Kroonenberg, P.M. (2018). Bibliographic analyses of handbooks: A proposal. Handbooks as a source of data for mapping scientific disciplines. In CWTS (Ed.), *STI 2018 Conference Proceedings*. (pp. 1609-1618). Leiden, The Netherlands. On-line only: <https://openaccess.leidenuniv.nl/handle/1887/65225>.
- ✕•Bain, P. G., Kroonenberg, P. M., Johansson, L.-O., Milfont, T. L., Crimston C. R., Kurz1, T., Bushina, E., Calligaro C., Demarque, C., Guan, Y., & Park, J. (2019). Public views of the sustainable development goals across countries. *Nature Sustainability*, *2*, 819–825. ([doi: 10.1038/s41893-019-0365-4](https://doi.org/10.1038/s41893-019-0365-4)); including supplementary information paper.

#### 2020 - 2029

- ✕•Lombardo, R., Beh, E.J. & Kroonenberg, P.M. (2021). Symmetrical and non-symmetrical variants of three-way correspondence analysis for ordered variables. *Statistical Science*, *36*, 542-561. ([doi: 10.1214/20-sts814](https://doi.org/10.1214/20-sts814)).
- ✕•Kroonenberg, P.M., Widdicombe, S., & Somerfield, P. (2024). The relative impact of co-occurring stressors on the abundance of benthic species determined through three-way correspondence analysis. *Ecological Informatics*, *80*, May 2024, 102483
- •Bongiorno, R., Bain, P. G., Ryan, M. K., Kroonenberg, P.M., Leach, C.W. (submitted). Think leader—think (immoral, power-hungry) man: an expanded framework for understanding stereotype content and leader-gender bias.. *PsyArXiv Preprints* doi = [10.31234/osf.io/p5uya](https://doi.org/10.31234/osf.io/p5uya)
- †Büyükkurt, B.K., & Kroonenberg, P.M. (in preparation). Perceptual mapping based on three-way binary data.
- †Büyükkurt, B.K., Kroonenberg, P.M., & Ceulemans, E. (in preparation). Uncovering and graphical representation of perceptual structure of product markets using three-mode three-way binary data,

## C2. Articles in Dutch journals

- ✕•Kroonenberg, P.M. (1983). Correlational structure of the subtests of the Snijders-Oomen Non-verbal Intelligence scale. *Kwantitatieve Methoden*, 4(11), 40-51.
- ✕•Kroonenberg, P.M., & Van der Voort, T.H.A. (1987). Multiplicatieve decompositie van interacties bij oordelen over de werkelijkheidswaarde van televisiefilms [Multiplicative decomposition of interactions for judgements of realism of television films]. *Kwantitatieve Methoden*, 8(23), 117-144.
- ✕•Kroonenberg, P.M. (1987). Commentaar op Pierar "Betekenis van het leren". *Tijdschrift voor Onderwijsresearch*, 12, 160-164.
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## D. OTHER TECHNICAL PAPERS

### D1. Articles in journals and chapters in edited books

#### 1980 - 1989

- ✕•Kroonenberg, P.M. & Lewis, C. (1982). Methodological issues in the search for a factor model: Exploration through confirmation. *Journal of Educational Statistics*, 7, 69-89.

#### 1990 - 1999

- ✕•Kroonenberg, P.M. (1990). Review of I. Borg & J. Lingoes, "Multidimensional similarity structure analysis". *Psychometrika*, 55, 169-172.
- ✕•Kroonenberg, P.M., & Verbeek, A. (1990). Modelling two parallel streams of observations with multinomial response models. In J.-M. Mathieu (Ed.), *Proceedings of the 5th workshop of Statistical Modeling* (pp.116-123). Toulouse, France: Laboratoire de Statistique et Probabilités, Université Paul Sabatier.
- ✕•Kroonenberg, P.M. & Lombardo, R. (1998). Nonsymmetric correspondence analysis: A tutorial. *Kwantitatieve Methoden*, 19, 57-83.
- ✕•Kroonenberg, P.M. & Lombardo, R. (1999). Nonsymmetric correspondence analysis: A tool for analysing contingency tables with dependence structure. *Multivariate Behavioral Research*, 34, 367-397.
- ✕•Kroonenberg, P.M. (1999). Review of J.C. Loehlin, "Latent variable models: An introduction to factor, path, and structural analysis". *Contemporary Psychology*, 44, 282-284.

#### 2000 - 2009

- ✕•Lombardo, R., Kroonenberg, P.M., & D'Ambra, L. (2000). Nonsymmetric correspondence analysis and biplot representations: Comparing differences in market share distribution. *Journal of the Italian Statistical Society*, 9, 107-126.
- ✕•Kroonenberg, P.M. (2002). Analysing dependence in large contingency tables. Nonsymmetric correspondence analysis and regression with optimal scaling. In S. Nishisato, Y. Baba, H. Bozdogan, K. Kanefuji (Eds.), *Measurement and Multivariate Analysis* (pp. 87-96). Tokyo: Springer.
- ✕•De Rooij, M. & Kroonenberg, P.M. (2003). Multivariate multinomial logit models for dyadic sequential interaction data. . *Multivariate Behavioral Research*, 38, 463-504.
- ✕•Kroonenberg, P.M. (2003). Biplots. In M. Lewis-Beck, A. Bryman., and T.F. Liao (Eds.), *Encyclopaedia of social science research methods* (pp. 70-71). Thousand Oaks, CA: Sage.
- ✕•Kroonenberg, P.M. (2003). Principal component analysis. In M. Lewis-Beck, A. Bryman., and T.F. Liao (Eds.), *Encyclopaedia of social science research methods* (pp.855-856). Thousand Oaks, CA: Sage.
- ✕•Kroonenberg, P. M., & Greenacre, M.J. (2005). Correspondence analysis (pp. 1394-1403). In S. Kotz, C.B. Read, N. Balakrishnan, B. Vidakovic (Eds.). *Encyclopedia of Statistical Sciences* (2<sup>nd</sup> Edition). New York: Wiley. DOI: [Web address](#)

### 2010 - 2019

- ✕•Van Ginkel, J.R., Kroonenberg, P.M., & Kiers, H.A.L. (2013). Missing data in principal component analysis of questionnaire data: A comparison of methods. *Journal of Statistical Computation and Simulation*, 84, 2298-2315
- ✕•Eilers, P. & Kroonenberg, P. M. (2014). Modeling and correction of Raman and Rayleigh scatter in fluorescence landscapes. *Chemometrics and Intelligent Laboratory Systems*, 130, 1–5
- ✕•Kroonenberg, P.M. (2014). Foreword. In Beh, E. & Lombardo, R. *Correspondence analysis. Theory, practice and new strategies* (pp. xv – xvi). Chichester, UK: Wiley,
- ✕•Van Ginkel, J.R., & Kroonenberg, P.M. (2014). Analysis of variance of multiply imputed data *Multivariate Behavioral Research*, 49, 78-91.
- ✕•Van Ginkel, J.R., Kroonenberg, P.M., & Kiers, H.A.L. (2013). Missing data in principal component analysis of questionnaire data: a comparison of methods. . *Journal of Statistical Computation and Simulation*, 84, 2298-2315.

### 2020 - 2029

- ✕•Van Ginkel, J.R., & Kroonenberg, P.M. (2021). Multiple imputation to balance unbalanced designs for two-way analysis of variance. *Methodology*, 17, 39-57. (Previous version, 2020, retracted)
- ✕•Kroonenberg, P.M. & Stoltenborgh, M. (2023). Handbooks as a means of mapping a discipline. An exploration of the World of Attachment. In A. Okada, K. Shigemasu, R. Yoshino, S. Yokoyama (eds.) *Facets of Behaviormetrics: The 50th Anniversary of the Behaviormetric Society* (pp. 123-143). Singapore: Springer.
- † Kroonenberg, P.M. (2025). The use of deviance-*df* plots for non-nested model selection. *Behaviormetrika*, (1)
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## D2. Project Fisher: Exact $\chi^2$ tests in contingency tables

### *Publications, Presentations, Talks, Technical reports, Program manuals*

- ✕•Kroonenberg, P.M., & Verbeek, A. (1979). Bepaling exacte overschrijdingskansen van  $X^2$  in rxc tabellen [Determination of exact significance levels of  $X^2$  in rxc tables].. *VVS Bulletin*, 12(11), 14-21,24,8.
- ✕•Verbeek, A., & Kroonenberg, P.M. (1979, poster). Exact chi-squared tests of independence in contingency tables with small numbers. 12th European Meeting of Statisticians, Varna Bulgaria, 3-7 September 1979 (Preprint nr. 122, Department of Mathematics, University of Utrecht).
- ✕•Verbeek, A., & Kroonenberg, P.M. (1981). De chi-kwadraat toetsen in kruistabellen: Conditioneren of niet? - vervolg [The chi-squared tests in contingency tables: To condition or not to condition? - continuation]. *VVS Bulletin*, 13(3), 22-25,28-36.
- ✕•Kroonenberg, P.M., & Verbeek, A.(1980). The quality of the chi-squared approximation to the (exact) distribution of several chi-squared statistics in rxc contingency tables. 2nd European Meeting of the Psychometric Society, Groningen The Netherlands, 18-21 June 1980.
- ✕•Kroonenberg, P.M., & Verbeek, A. (1980). Exact distributions of chi-squared tests in contingency tables with small numbers (Poster). COMPSTAT80, Edinburgh Scotland, 18-22 Augustus 1980 (WEP Reeks, WR 80-18-EX, Subfaculteit PAW, Rijksuniversiteit Leiden).
- ✕•Kroonenberg, P.M. & Verbeek, A. (1981). Een algoritme om exacte overschrijdingskansen te bepalen in een rxc kruistabel met vaste marginaal [An algorithm to determine the exact significance levels in rxc contingency tables with fixed margins]. Given to the Contact Groep Statistische Programmatuur VVS, Amsterdam, 15 May 1981.
- ✕•Kroonenberg, P.M., & Verbeek, A. (1981). User's guide to Fisher. A program to perform exact tests in rxc contingency tables for small samples. *Kwantitatieve Methoden*, 2(2), 66-85.

- ✕•Verbeek, A., & Kroonenberg, P.M. (1982). Kleine steekproevenverdelingen (Samenvatting lezing Statistische Dag VVS) [Small sample distributions (abstract)]. *VVS Bulletin*, 15(5), 18-19,22-23.
- ✕•Verbeek, A., Kroonenberg, P.M., & Kroonenberg, S. (1983). *User's manual to FISHER*. WEP Reeks, WR 83-49-RP. Subfaculteit PAW, Rijksuniversiteit Leiden, 1983.
- ✕•Verbeek, A., & Kroonenberg, P.M. (1985). Survey of algorithms for exact distributions of test statistics in RxC contingency tables with fixed margins. *Computational Statistics and Data Analysis*, 3, 159-185.
- ✕•Kroonenberg, P.M. & Verbeek, A. (1985). Comment on Kannemann's "The exact evaluation of 2-way cross-classifications". *Biometrical Journal*, 27, 719-720.
- ✕•Kroonenberg, P.M., & Verbeek, A. (1987). Comments on "A generalization of Fisher's exact test in PxQ contingency tables using more concordant relations". *Communications in Statistics - Simulation and Computation*, 16, 301-306.
- ✕•Kroonenberg, P.M. (1992). Cochran's vuistregel onder de loep [Cochran's Rule revisited]. Contactgroup Statistische Programmatuur van de VVS. Utrecht, 5 February 1992; Laboratoire de Statistique et Probabilité, Université Paul Sabatier, Toulouse, France, 13 February 1992; Vakgroep Mathematische Statistiek, Rijksuniversiteit Leiden, 11 May 1992.
- ✕•Kroonenberg, P.M. (1992). In memoriam Albert Verbeek (1946–1990). *Statistica Neerlandica*, 46, 97-105.
- ✕•Verbeek, A., & Kroonenberg, P.M. (1993). *FISHER 3.10: Testing independence in rxc tables* (Manual 2nd revised edition + software). Groningen: iec ProGAMMA. (Earlier versions: ✕• *FISHER* 3.0, 1990; Later version 3rd revised edition, 2005. Leiden: The Three-Mode Company.)
- ✕•Kroonenberg, P.M., & Verbeek, A. (1993). Mijn kruistabel heeft zo veel verwachte waarden kleiner dan vijf. Wat moet ik nu doen? [My contingency table has so many expected values smaller than five. What am I to do?]. *Tijdschrift voor Onderwijsresearch*, 18, 3-10.
- ✕•Kroonenberg, P.M. (2017). The tale of Cochran's rule. Presented at the IFCS2017, Tokyo, Japan.
- ✕•Kroonenberg, P.M., & Verbeek, A. (2018). The tale of Cochran's Rule. My contingency table has so many expected values smaller than five. What am I to do? *The American Statistician*, 72, 175-183. doi: 10.1080/00031305.2017.1286260.

## E. OTHER APPLIED PAPERS

### E1. Articles in international journals and chapters in edited books

#### 1980 - 1989

- ✕•Beukelaar, L.J. & Kroonenberg, P.M. (1983). Towards a conceptualization of hand preference. *British Journal of Psychology*, 74, 33-45.
- ✕•Van IJzendoorn, M.H., Goossens, F.A., Kroonenberg, P.M., & Tavecchio, L.W.C. (1985). Dependent attachment: B-4 children in the Strange Situation.. *Psychological Reports*, 57, 439-451.
- ✕•Goossens, F.A., Van IJzendoorn, M.H., Tavecchio, L.W.C., & Kroonenberg, P.M. (1986). The stability of attachment across time and context in a Dutch sample. *Psychological Reports*, 58, 23-32
- ✕•Beukelaar, L.J., & Kroonenberg, P.M. (1986). Changes of the relationship between hand preference and writing hand over time. *Neuropsychologia*, 24, 301-303.
- ✕•Kroonenberg, P.M., & Van IJzendoorn, M.H. (1987). Exploring children's behavior in the Strange Situation. In L.W.C. Tavecchio, & M.H. van IJzendoorn (Eds.), *Attachment in social networks: Contributions to the Bowlby-Ainsworth attachment theory* (pp. 379 -425). Amsterdam: North Holland.
- ✕•Van IJzendoorn, M.H., & Kroonenberg, P.M. (1988). Cross-cultural patterns of attachment: A meta-analysis of the Strange Situation. *Child Development*, 59, 147-156.
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#### 1990 - 1999

- ✕•Van IJzendoorn, M.H., & Kroonenberg, P.M. (1990). Cross-cultural consistency in coding the Strange Situation. *Infant Behavior and Development*, 13, 469-486.
- ✕•Van IJzendoorn, M.H., Goldberg, S., Kroonenberg, P.M., & Frenkel, O. (1992). The relative effects of maternal and child problems on the quality of attachment: A meta-analysis of attachment in clinical samples. *Child Development*, 63, 840-858.
- ✕•Kroonenberg, P.M., Van Dam, M., Van IJzendoorn, M.H., & Mooijaart, A. (1997). Dynamics of behaviour in the Strange Situation: A structural equations model. *British Journal of Psychology*, 88, 311-332.
- ✕•Kroonenberg, P.M., Harch, B.D., Basford, K.E., & Cruickshank, A. (1997). Combined analysis of categorical and numerical descriptors of Australian groundnut accessions using nonlinear principal component analysis. *Journal of Agricultural, Biological, and Environmental Sciences*, 2, 294-312.

#### 2000 - 2004

- ✕•Islam, F.M.A., Basford, K.E., Redden, R.J., Gonzalez, A.V., Kroonenberg, P.M., & Beebe, S., (2002). Genetic variability in cultivated common bean beyond the two major genes. *Genetic Resources and Crop Evolution*, 49, 271-283.
- ✕•Röder, I., Boekaerts, M., & Kroonenberg, P.M. (2002). The stress and coping questionnaire for children (School version and Asthma version): Construction, factor structure, and psychometric properties. *Psychological Reports*, 91, 29-36.
- ✕•Röder, I., Kroonenberg, P.M., & Boekaerts, M. (2003). Psychosocial functioning and stress-processing of children with asthma in the school context: differences and similarities with children without asthma. *Journal of Asthma*, 40, 777-787.
- ✕•Bakermans-Kranenburg, M.J., Van IJzendoorn, M.H., & Kroonenberg, P.M. (2004). Differences in attachment security between African-American and white children: Ethnicity or socio-economic status? *Infant Behavior and Development*, 27, 417-433 (✕•Correction: 28, 96-96, 2005 ).
- Van IJzendoorn, M.H., & Kroonenberg, P.M. (2004). Patrones transculturales del apego: Un meta-análisis de la situación extraña. In M.C. Juárez Hernández (traductora-compiladora), *Influencia Cultural En El Vínculo Madre-Infante*. (pp. 273-290). Mexico: Universidad Pedagógica Nacional.

#### 2005 - 2009

- ✕•Ellis, R.N., Kroonenberg, P.M., Harch, B.D., & Basford, K.E. (2006). Nonlinear principal component analysis: An alternative method for finding patterns in environmental data. *Environmetrics*, 17, 1-11.
- ✕•Kroonenberg, P.M., Oort, F.J., Stebbins, G.T., Leurgans, S. E., Cubo, E., & Goetz, C.G. (2006). Motor function in Parkinson's disease and supranuclear palsy: Simultaneous factor analysis of a clinical scale in several populations. *BMC Medical Research Methodology*, 6 (6), 1-13. (Web address: <http://www.biomedcentral.com/1471-2288/6/26>)
- ✕•Erez A., Mikulincer, M., Van IJzendoorn, M.H., & Kroonenberg, P.M. (2008). Attachment, personality, and volunteering: Placing volunteerism in an attachment-theoretical framework. *Personality and Individual Differences*, 44, 64-74.
- ✕•Erez, A., Sleebos, E., Mikulincer, M., Van IJzendoorn, M.H., Ellemers, N., & Kroonenberg, P.M. (2009). Attachment anxiety, intra-group (dis)respect, actual efforts, and group donation. *European Journal of Social Psychology*, 39, 734-746.
- ✕•Wulffaert, J., Van Berkelaer-Onnes, I., Kroonenberg, P.M., Scholte, E., Bhuiyan, Z., & Hennekam, R. (2009). Simultaneous analysis of the behavioural phenotype, physical factors, and parenting stress in people with Cornelia de Lange syndrome. *Journal of Intellectual Disability Research*, 53, 604-619.

#### 2015 - 2019

- ✕•Boomgaard, P., & Kroonenberg, P.M. (2015). Rice, sugar, and livestock in Java, 1820-1940: Geertz's *Agricultural Involution* 50 years later. In Bray, F., Coclanis, P. A., Fields-Black, E., &

Schäfer, B. (Eds.), *Rice: Global networks and new histories* (pp. 56-83). New York: Cambridge University Press.

- ✕•Van Ginkel, J.R., & Kroonenberg, P.M. (2015). Comment on article “PLAY project home consultation intervention program for young children with autism spectrum disorder: A randomized control trial. *Journal of Development and Behavioral Pediatrics*, 36 (3), 225 – 225.
- ✕•Rodenburg-Vandenbussche, S., Pieterse, A.H., Kroonenberg, P.M., Scholl, I., Van der Weijden, T., Luyten, G.P.M., Kruitwagen, R.F.P.M., Den Ouden, H., Carlier, I.V.E., Van Vliet, I.M., Zitman, F.G., & Stiggelbout, A.M. (2015). Dutch translation and psychometric testing of the SDM-Q-9 and SDM-Q-DOC in patients from primary and secondary care. *PLoS One*, 10(7), e0132158; (doi 10.1371/journal.pone.0132158)
- ✕•Van Rijn S., Kroonenberg, P.M., Ziermans, T., & Swaab, H. (2015). The Schizotypal Personality Questionnaire for Children (SPQ-C-D): An evaluation in the Dutch population. *Advances in Psychiatry*, ID 938784; (doi 10.1155/2015/938784)
- ✕•Kroonenberg, P. M. (2018). Bibliographic analyses of handbooks: A proposal. Handbooks as a source of data for mapping scientific disciplines. R. Costas, T. Franssen, and A. Yegros-Yegros (Eds.), *Proceedings of the 23rd International Conference on Science and Technology Indicators*. Leiden: Centre for Science and Technology Studies (CWTS), Leiden University, The Netherlands. ISBN: 978-90-9031204-0. <https://hdl.handle.net/1887/64521>.

#### 2020 - 2029

- ✕•Vecco, M., Georgantzis, N., & Kroonenberg, P. M. (2022). Is it the firm, the innovator, or the innovation? Determinants of perceived non-imitability leading to unprotected Intellectual Property. *International Review of Law & Economics*, 2(8):106095; doi: 10.1016/j.irle.2022.106095
- •Kroonenberg, P.M. (2024). Nishisato’s psychometric world. In: Beh, E.J., Lombardo, R., Clavel, J.G. (Eds.) *Analysis of categorical data from historical perspectives. Behaviormetrics: Quantitative approaches to human behavior*. Springer, Singapore.doi:10.1007/978-981-99-5329-5
- •Kroonenberg, P.M. (2024). Foreword. In: Beh, E.J., Lombardo, R., Clavel, J.G. (Eds.) *Analysis of categorical data from historical perspectives. Behaviormetrics: quantitative approaches to human behavior*. Springer, Singapore.doi:10.1007/978-981-99-5329
- Kroonenberg, P.M. (2025). A history of deviance-df plots for non-nested model selection. *Behaviormetrika*, 2025-01

## E2. Articles in Dutch journals

- ✕•Kroonenberg, P.M., & Van der Veer, R. (1980). Rasdiscriminatie bij het opmaken van kranteberichten: een heranalyse van een onderzoek van Frank Bovenkerk [Racial discrimination in the lay-out of newspaper items: A re-analysis of a study by Frank Bovenkerk]. *Mens en Maatschappij*, 55, 301-315.
- ✕•Kroonenberg, P.M., & Van der Kloot, W.A. (1984). Review of: S.S. Schiffman, M.L. Reynolds, & F.W. Young, "Introduction to multidimensional scaling. Theory, methods, and applications". *Nederlands Tijdschrift voor de Psychologie*, 39, 56-58.
- ✕•Kroonenberg, P.M. (1985). Review of: I. Plewis, "Analysing change". *Kwantitatieve Methoden*, 6(19), 171-172.
- ✕•Kroonenberg, P.M. (1986). Review of: K. Matusita (Ed.), "Recent developments in statistical inference and data analysis". *Kwantitatieve Methoden*, 7(20), 142.
- ✕•Kroonenberg, P.M. (1987). Review of: P.R. Krishnaiah (Ed.), "Applications in statistics". *Kwantitatieve Methoden*, 8(23), 188.
- ✕•Harinck, F.J.H., Hellendoorn, J., & Kroonenberg, P.M. (1988). Interactieanalyse in speltherapie [Interaction analysis in play therapy]. In P.C.M. Molenaar, & G.J. Mellenbergh (Red.), *De analyse van dyadische interacties* [The analysis of dyadic interactions] (pp. 189-224). Amsterdam: Universiteit van Amsterdam.

- ✕•Kroonenberg, P.M., Pangemanann, B., & Bakker, D. (1989). Vergelijking van alternatieve scoringsprocedures voor de vragenlijst van Slade & Jenner [Comparison of alternative scoring procedures for the questionnaire of Slade & Jenner]. *Tijdschrift voor Onderwijsresearch*, 14, 297-305.
- ✕•Kroonenberg, P.M., & Van der Veer, R. (1996). Internationale publikaties en kwaliteit. Een onderzoek naar het publikatiegedrag van Nederlandse pedagogen en onderwijskundigen [International publications and quality. The publication habits of Dutch researchers in education]. *Pedagogische Studiën*, 73, 225-238.
- ✕•Van IJzendoorn, M.H., & Kroonenberg, P.M. (1997). Zijn crèche kinderen vaker onveilig gehecht? Kanttekeningen naar aanleiding van enige Nederlandse en Amerikaanse studies [Are day-care children more frequently avoidant attached. Some remarks in connections with several Dutch and American studies]. *Nederlands Tijdschrift voor Opvoeding, Vorming en Onderwijs*, 13, 140-151.
- ✕•Van Dolderen, M., Kroonenberg, P.M., Linting, M., & Nas, C.N. (1999). Een zware klus voor ouder en kind. Afscheid nemen in het kinderdagverblijf. [A heavy duty for parent and child: Leave taking in day care.] *Vernieuwing, Tijdschrift voor Onderwijs en Opvoeding*, 58(10), 7-10. Ook als origineel manuscript)
- ✕•Kroonenberg, P.M. (2002). Statistiek: Argumentatiemiddel bij pedagogische vragen [Statistics as an argumentation device for educational reasoning.] (pp. 69-86). In Van IJzendoorn, M.H. & De Frankrijker H. (Red.). *Pedagogiek in Beeld. Inleiding in de pedagogische studie van opvoeding, onderwijs en hulpverlening*. [A view on educational sciences.] Houten: Bohn, Stafleu, Van Loghum. (2<sup>e</sup> ingekorte versie, 2005 ).
- ✕•Linting, M., & Kroonenberg, P.M. (2015). Statistiek: een krachtig argumentatiemiddel in pedagogisch onderzoek [Statistics as a powerful argumentation device for educational research.]. (pp. 15 - 27). In Van IJzendoorn, M.H. & Van Rosmalen, L. (Red.). *Pedagogiek in Beeld. Een inleiding in de pedagogische studie van opvoeding, onderwijs en hulpverlening*. [A view on educational sciences.] Houten: Bohn, Stafleu, Van Loghum. (3<sup>e</sup> volledig herziene druk).

## F. PAPERS PRESENTED AT CONFERENCES

### 1979 - 1989

- ✕•Kroonenberg, P.M., Van der Kloot, W.A., & Brouwer, P. (1983). External three-mode principal component analysis. 3rd European Meeting of the Psychometric Society, Jouy-en-Josas France, 6-8 July 1983 (WEP Reeks, WR 83-36-EX, Subfaculteit PAW, Rijksuniversiteit Leiden).
- ✕•Kroonenberg, P.M. (1983). Three-mode correspondence analysis. 3rd European Meeting of the Psychometric Society, Jouy-en-Josas, France, 6-8 July 1983 (WEP Reeks, WR 83-38-EX, Subfaculteit PAW, Rijksuniversiteit Leiden).
- † Brouwer, P., & Kroonenberg, P.M. (1985). Comparison and evaluation of PARAFAC and TUCKALS for three-mode analysis. 4th European Meeting of the Psychometric Society, Cambridge UK, 2-5 July 1985 (WEP Reeks, WR 85-13-LE, Subfaculteit PAW, Rijksuniversiteit Leiden).
- † Kroonenberg, P.M., & Ten Berge, J.M.F. (1985). Cross-validation from several correlation matrices with perfect congruence analysis and three-mode principal component analysis. 4th European Meeting of the Psychometric Society, Cambridge UK, 2-5 July 1985.
- ✕Kroonenberg, P.M. (1986, invited paper). Three-mode data structures, methods, models, and algorithms (Invited paper). Symposium of the Japanese Behaviormetric Society, "Three-mode data analysis methods", Institute of Mathematical Statistics, Tokyo Japan, 7 February 1986. (Also 1987:Talk at University of Queensland, Brisbane, Australia)
- ✕•Kroonenberg, P.M. (1986). The three-mode world. Minisymposium on three-mode analysis, Leiden, 3 July 1986 (WEP Reeks, WR 86-01-LE, Subfaculteit PAW, Rijksuniversiteit Leiden).
- ✕•Kroonenberg, P.M., & Van der Kloot, W.A. (1987). Three-mode reduced-rank regression. 5th European Meeting of the Psychometric Society, Twente, 24-26 June 1987.
- ✕•Van IJzendoorn, M.H., & Kroonenberg, P.M. (1987). Cross-cultural patterns of attachment. A mega-analysis of the Strange Situation. In K. Grossmann (Chair), Quality of attachment: Culture-specific or universal? Invited symposium conducted at the biennial meeting of the Society for Research in Child Development, Baltimore (MD).
- ✕•Kroonenberg, P.M. (1988) Singular value decomposition of interactions in three-way contingency tables (Invited paper). Multiway '88, Rome, Italy, 27-30 March 1988. [Abstract in *Multiway '88 Abstracts* (p.64). Roma: Università di Roma "La Sapienza".] **A**
- ✕•Kroonenberg, P.M. (1988). Aspects of genotype-environment interactions of several attributes. National Congress of the Australian Mathematics Society, Canberra, Australia, 17-20 May 1988. Also at EMPS, Leuven. Belgium). **P**
- ✕Kroonenberg, P.M. (1989). Dyadic categorical time series analyzed with multivariate logit models. 2nd Conference of the International Federation of Classification Societies, Charlottesville, VA, 28 June 1989. **A**
- ✕•Kroonenberg, P.M. (1989). Three-way principal component analysis by example. Presented at the Instituto de Ciencias da Educación, Universidad de Santiago de Compostela, Spain, 10 May 1989.;translated into Spanish: Análisis de componentes principales en tres-modos. **P**
- ✕•Kroonenberg, P.M. (1989). Aspects of genotype-environment interactions of several attributes. 6th European Meeting of the Psychometric Society, Leuven, Belgium, 18 July 1989. **P**

### 1990 - 1999

- ✕•Kroonenberg, P.M. (1991, invited paper). The Three-mode side of the Three-way world. Workshop Multidimensional Data Analysis. A meeting of the Dutch and Italian schools, Anacapri, Italy, 2-5 October 1991. (earlier version, 5 July, 1990; also report WEP Reeks 1986)
- ✕•Basford, K.E., Kroonenberg, P.M. and DeLacy, I.H. (1991, invited paper). Three-way methods for multi-attribute genotype by environment data: An illustrated partial survey. *Proceedings of STATCOMP/BIOSTATS 91, The Statistical Society of Australia*, Coolangatta, Australia.

- † Kroonenberg, P.M., Basford, K.E., & Van Dam, M. (1992). Three-way mixture method clustering illustrated with an example from attachment theory. Meeting of the North American Classification Society, East Lansing, MI, USA, 11-13 June 1992.
- ✕ Kroonenberg, P.M., & Basford, K.E. (1992). Analysing three-way data in agriculture. Symposium on Genotype by Environment Interaction in plant breeding. Wageningen, 25 August 1992.
- ✕ Kroonenberg, P.M. (1993). Three-way methods for multivariable-multioccasion matrices. 8th European Meeting of the Psychometric Society. Barcelona, Spain, 25-28 July 1993.
- ✕ Kroonenberg, P.M. (1993). A survey of algorithms for three-way component models. First conference on Three-way Methods in Chemistry (TRIC). Epe, The Netherlands, 22-25 August 1993.
- ✕ Carlier, A., & Kroonenberg, P.M. (1993). Biplots and decompositions in three-way correspondence analysis. 49th Session of the International Statistical Institute. Firenze, Italy, 25 August-2 September 1993 (Abstract: Bulletin of the ISI. Contributed papers. 49th Session (Book 1 - pp. 209-210). Voorburg: ISI).
- ✕ Lombardo, R., & Kroonenberg, P.M. (1993). Non-symmetrical correspondence analysis: Some examples. 49th Session of the International Statistical Institute. Firenze, Italy, 25 August-2 September 1993 (Abstract: Bulletin of the ISI. Contributed papers. 49th Session (Book 2 - pp. 127-128). Voorburg: ISI).
- ✕ Kroonenberg, P.M. & Van Eeuwijk, F.A. (1994). Extensions of AMMI: Additive main effects and multiplicative interaction effect models for three-way tables. Interregional Meeting of the German and Netherlands Region of the International Biometric Society. Münster, Germany, 15-18 March 1994.
- ✕ Kroonenberg, P.M. (1994). Three-way multiplicative models for three-way interactions. Psychometric Society Meeting. Urbana, IL, USA, 23-26 June 1994.
- ✕ Kroonenberg, P.M. (1994). The 31 flavours and my flavour of the month: Three-way data analysis. Symposium on Future Directions in Robust Methods and Data Analysis. Princeton, NJ, USA, 27 June-1 July 1994.
- ✕ Kroonenberg, P.M., & Carlier, A. (1995, invited paper) Decompositions and biplots in three-way correspondence analysis. Symposium on Visualization of categorical data. Köln, FRG, 16-21 May 1995.
- Kroonenberg, P.M. (1996, invited paper). Recent developments in three-way data analysis: A showcase of methods and examples. 20. Jahrestagung Gesellschaft für Klassifikation. Freiburg, Germany, 6-8 March, 1996.
- ✕ Kroonenberg, P.M., & Heiser, W.J. (1996, invited paper). Parafac with restrictions on the configurations: A review. Meeting of the International Federation of Classification Societies '96, Kobe, Japan, 27-30 March 1996.
- ✕ Kroonenberg, P.M., & Heiser, W. (1996). Three-way analysis of variance with multiplicative terms for interactions: An example of PARAFAC with constraints on the components. Meeting of the Psychometric Society. Banff, Canada, 27-30 June 1996.
- ✕ Kroonenberg, P.M. & Heiser, W.J. (1997). Parallel factor analysis with constraints: Recent developments. Three-way Methods in Chemistry and Psychology (TRICAP97), Lake Chelan, WA, USA, 4-9 May 1997.
- • Kroonenberg, P.M. (1998). Studying the diffusion of three-mode analysis in chemistry. Meeting of the International Federation of Classification Societies (IFCS'98), Rome, Italy, June 1998
- † Kroonenberg, P.M. (1998). Handling missing data in three-mode principal component analysis of genotype by environment by attribute data. International Biometric Conference, Cape Town, South Africa, Dec. 1998.
- ✕ Kroonenberg, P.M. & Oort, F.J. (1999). Three-mode analysis of multimode covariance matrices. Meeting of the Psychometric Society. Lawrence, KS, 25-27 June 1999.
- † Kroonenberg, P.M. (1999, invited paper). Three-mode data analysis at work: A casebook. Meeting of the International Statistical Institute (ISI'99). Helsinki, 10-18 August 1999.

#### 2000 - 2004

- Kroonenberg, P.M. (2000). "Categorical regression and non-symmetrical correspondence analysis." International Conference on Measurement and Multivariate Analysis" (ICMMA) Banff, Alberta, Canada, 11-14 May, 2000.
- X Kroonenberg, P.M., & Van Leeuwen, T (2000). Three-mode citing patterns in chemistry. Conference on Three-mode methods in chemistry and psychology (TRICAP2000). Faaborg, Denmark, 16-21 July 2000.
- X Kroonenberg, P.M. (2001). Three-mode correspondence analysis: An illustrated exposé. A tribute to André Carlier. Journées de Statistique. Nantes, France, 14-18 May 2001.
- † Kroonenberg, P.M. (2001). Examples of three-mode correspondence analysis. Meeting of the Psychometric Society, Valley Forge, PA, 22-24 June 2001.
- • Kroonenberg, P.M. (2001). Three-mode component analysis with missing data. International Meeting of the Psychometric Society, Osaka, 16-19 July 2001.
- X Kroonenberg, P.M. (2001, invited paper). Software for three-mode data analysis. 4th Salamanca Statistical Seminar. Salamanca, Spain, 3-4 December 2001.
- † Kroonenberg, P.M., & Röder, I. (2002). Situational dependence of emotions and coping strategies in children with asthma. A three-mode component analysis. Third International Conference on Child & Adolescent Mental Health, Brisbane, Australia, 12-14 June 2002.
- † Van IJzendoorn, M. H., Kroonenberg, P.M., Out, D., Randsdorp, Y., Lehmann, A., & Van der Maas, H. (2003). Does more nonmaternal care lead to aggression? The NICHD Study of Early Child Care and Youth Development on quantity of non-maternal care and external problem behavior. Biennial meeting of the Society for Research of Child Development, Tampa, FL, March 2003.
- † Kroonenberg, P.M., Dunn III, W.J., & Commandeur, J.J.F. (2003). Procrustes analysis as an aid for aligning molecules in medicinal chemistry. Conference on Three-mode methods in chemistry and psychology (TRICAP 2003). Lexington, KY, USA, 23-27 June 2003 & 13<sup>th</sup> International Meeting of the Psychometric Society, Chia Laguna, Sardinia, Italy, 7-11 July 2003.
- † Kroonenberg, P.M. (2003, invited paper). Introduction in multilinear methods: A showcase of examples. Conference on Three-mode methods in chemistry and psychology (TRICAP 2003). Lexington, KY, USA, 23-27 June 2003.
- † Kroonenberg, P.M., & Anderson, C.J. (2003, invited paper). Additive and multiplicative models for three-way tables. Correspondence analysis and related methods (CARME 2003). Barcelona, Spain, 29 June – 2 July 2003.
- • Kroonenberg, P.M. (2003). An empirical comparison between three methods of three-mode clustering. 13<sup>th</sup> International Meeting of the Psychometric Society, Chia Laguna, Sardinia, Italy, 7-11 July 2003.
- † Kroonenberg, P.M. (2003, invited paper). An overview of model selection in three-mode analysis. La Riunione Scientifica del Gruppo di Classificazione e Analisi dei Dati (CLADAG 2003). Bologna, Italië, 22 September 2003
- † Van Eeuwijk, F.A., & Kroonenberg, P.M. (2004, poster). Molecular markers, sensory perceptions and other characteristics of three types of tomato varieties. International Meeting of the Biometric Society 2004, Cairns, Australia, 11-16 July 2004.
- † Ellis, R. N., Kroonenberg, P.M., Harch, B.D., & Basford, K.E. (2004). Nonlinear principal component analysis: An alternative method for finding patterns in environmental data. International Meeting of the Biometric Society 2004, Cairns, Australia, 13 July 2004.
- † Kroonenberg, P.M., Basford, K.E., & Gemperline, P.G. (2004). Grouping three-mode data with mixture methods: The case of the diseased blue crabs. International Meeting of the Biometric Society 2004, Cairns, Australia, 16 July 2004.
- • Kroonenberg, P.M. (2004, invited paper). Three-mode analysis in practice. Overview, problems, and prospects. Tensor decomposition workshop. ARCC American Institute of Mathematics, Palo Alto, CA, 19 July 2004.
- † Kroonenberg, P.M. (2004, invited paper). Analyse exploratoire longitudinale [Exploratory longitudinal analysis]. Journées d'Étude en Statistique, Marseille, 6-10 December 2004.

#### 2005 - 2009

- † Kroonenberg, P.M. (2006, invited paper). Multiple imputation and three-mode analysis. A research program illustrated with chromatographic data. Conference on Three-mode methods in chemistry and psychology (TRICAP 2006), Xania, Kreta, Griekenland, 8 juni 2006.
- † Kroonenberg, P.M. (2006). Three-mode analysis for Dummies and some history of the Tucker model. Conference on Three-mode methods in chemistry and psychology (TRICAP 2006), Xania, Kreta, Griekenland, 8 June 2006.
- •Kroonenberg, P.M. (2006). Multiple imputation and three-mode analysis. A research program illustrated with the structure of Afro-American families. 13<sup>th</sup> International Meeting of the Psychometric Society, Montreal, Canada, 14 June 2006.
- •Kroonenberg, P.M., & Röder, I. (2007, invited paper). Situational dependence of emotions and coping strategies in children with asthma. A three-mode component analysis. 14<sup>th</sup> International Meeting of the Psychometric Society, Tōkyō, Japan, 13 July 2007.
- •Büyükkurt, K. B., & Kroonenberg, P.M. (2008). Perceptual mapping based on three-way binary data. International Conference on Multivariate statistical modelling and high dimensional data mining. Kayseri, Turkey, 20 June 2008.
- •Kroonenberg, P.M., Büyükkurt, B. K., & Mesman, J. (2008) Longitudinal assessment of child behaviour based on three-way binary data: International meeting of the Psychometric Society, Durham, NH, 1 July 2008.
- •Van Ginkel, J. & Kroonenberg, P.M. (2009) Using Procrustes analysis to combine the results from principal components analysis in multiple imputation. International meeting of the Psychometric Society, July 2009, Cambridge, UK, 23 July 2009.
- † Arief, V.N, Kroonenberg, P.M., DeLacy, I. H, Dieters, M. J., Crossa, J., Basford, K.E. (2009). An application of Wheat Phenome Atlas using three-way principal component analysis. OECD-GenomeAssociation-Oz09, Perth, Western Australia, 11 November 2009.
- † Arief, V.N., Kroonenberg, P.M., DeLacy, I.H., Dieters, M.J., Crossa, J., & Basford K.E. (2009). Ordination of marker-trait association profiles from long-term international wheat trials. The International Biometric Society Australasian Region Conference, Taupo, New Zealand, 3 December 2009.
- † Arief, V.N., Kroonenberg, P.M., DeLacy, I.H., Dieters, M. J., Crossa, J., Basford, K.E. (2009). Construction and three-way ordination of the Wheat Phenome Atlas. 10<sup>th</sup> Islamic Countries Conference on Statistical Science, Cairo, 23 December 2009.

#### 2010 - 2014

- • Kroonenberg, P.M. (2010). Issues in designing user-friendly software for three-mode analysis. Third Symposium in Multiway and Multiblock data. CNAM, Paris, 6 May 2010.
- † Arief, V.N., Kroonenberg, P.M. , DeLacy, I.H. , Dieters, M.J., Crossa, J., Dreisigacker, S., Singh, S. P., Braun H.-J., & Basford K.E.. (2010). Three-way ordination of rust GWAS using 25 years of one of CIMMYT global wheat breeding programs. Borlaug Global Rust Initiative Technical Workshops, St. Petersburg, Russia, 30-31 May 2010.
- •Van Ginkel, J.R., Kroonenberg, P.M., & Kiers, H.A.L. (2010). Comparison of five methods for handling missing data in Principal component analysis. Symposium of the ERCIM'10, London, December 2010.
- † Kroonenberg, P.M. (2011, invited paper). Physical disturbance and organic enrichment: effects on species in benthic communities. An application of three-way correspondence analysis. CARME 2011. Rennes, France, 10 February 2011.
- † Kroonenberg, P.M. (2011, invited paper). The history of three-way correspondence analysis. CARME 2011. Rennes, France, 10 February 2011.
- † Boomgaard, P. & Kroonenberg, P.M. (2011). Rice, sugar, and livestock in Java, 1820-1940: Another look at Geertz's *Agricultural Involution*. Workshop New Histories of Rice. Max Planck Institute for the History of Science. Berlin, 25-26 March 2011.

- Kroonenberg, P.M. (2011). The wellbeing of creepies and crawlies on the seabed: A three-way correspondence analysis. International Meeting of the Psychometric Society. Hong Kong, 18 July 2011.
- •Van Ginkel, J.R., & Kroonenberg, P.M. (2011). Multiple imputation and (repeated measures) analysis of variance. International Meeting of the Psychometric Society. Hong Kong, 21 July 2011.
- ✕Kroonenberg, P.M. (2012). Multiway methods and the social and behavioural science. Too much of a good thing? Conference on Three-way Methods in Chemistry and Psychology (TRICAP2012), Brugge, Belgium, 2-7 June, 2012.
- † Kroonenberg, P.M. , & Van Ginkel, J.R. (2012). Combination rules for multiple imputation in three-way analysis illustrated with chromatography data. Conference on Three-way Methods in Chemistry and Psychology (TRICAP2012), Brugge, Belgium, 2-7 June 2012.
- •Kroonenberg, P.M. (2012). The wellbeing of creepies and fishes on the seabed: A three-way correspondence analysis. The effects of physical disturbance and organic enrichment on benthic communities. International Biometrics Conference. Kobe, Japan, 28-31 August 2012.
- •Van Ginkel, J.R., Kroonenberg, P.M., & Kiers, H.A.L (2013). Missing data in principal component analysis of questionnaire data: A comparison of methods. International Meeting of the Psychometric Society, Arnhem, July 2013.
- • Kroonenberg, P.M. (2013, invited lecture). Issues in designing user-friendly software for three-mode analysis. Vereniging voor Ordatie en Classificatie. Antwerpen, 2013.
- •Kroonenberg, P.M. (2013; keynote lecture). Fifty years of three-mode data analysis: Past, present, problems and prospects. Meeting of the Società Italiana di Statistica, Brescia, Italy, 2013.
- † Kroonenberg, P.M. (2014). Assessing factorial invariance of two-way rating designs using three-way methods. Meeting of the International Psychometric Society, Madison, WI, USA, 21-25 July 2014.
- •Van Ginkel, J.R., & Kroonenberg, P.M. (2014). The influence of multiple imputation on the Tucker2 model. Meeting of the International Psychometric Society, Madison, WI, USA, 21-25 July 2014.
- † Kroonenberg, P.M. (2014). Three-mode analysis of multimode covariance matrices. Meeting of the European Research Council for Informatics and Mathematics, Pisa, Italy, 6-8 December 2014.

#### **2015 - 2019**

- •Kroonenberg, P.M. (2015). Factorial invariance of two-way rating designs using three-way methods Conference on Three-way Methods in Chemistry and Psychology (TRICAP2015). Pecol Alta (Bel), Italia, 31 May – 5 June 2015.
- Kroonenberg, P.M. (2015). The use of deviance plots for non-nested model selection in loglinear models, structural equations, and three-mode analysis. International Meeting of the Psychometric Society, Beijing, 12-16 July 2015.
- •Lombardo, R., Kroonenberg, P.M., & Beh, E. J. (2015). Three-way polynomial correspondence analysis for ordered contingency tables. Conference on Correspondence Analysis and Related Methods (CARME), Napoli, Italia, 20-23 September.
- Kroonenberg, P.M. (2015). Multiway extensions of the SVD. Workshop on the Singular Value Decomposition (SVD). Isola di Procida, Italia, 24-25 September.
- •Kroonenberg, P.M. (2016). The use of deviance plots for model selection especially in three-way analysis. Workshop Tensor Decompositions and Applications. Leuven, Belgium, 18-22 January.
- •Lombardo, R., Kroonenberg, P.M., & Beh, E.J. (2016). Modelling trends in ordered three-way non-symmetrical correspondence. Meeting of the Italian Statistical Society (SIS2016), Salerno, 8–10 June.
- •Kroonenberg, P.M. (2016). The use of deviance plots for non-nested model selection in loglinear models, structural equations, three-mode analysis. Meeting of the Italian Statistical Society (SIS2016), Salerno, 8–10 June.
- Kroonenberg, P.M., Whitehurst, J., & Gardi, J. (2016). View of public figures: Presidential candidates/celebrities. From focus groups to the Online Kellian Mind Explorer: Results from a three-mode component analysis. International Meeting of the Psychometric Society, Asheville, NC, 12-15 July.

- Lombardo R, Beh E.J, Kroonenberg P.M. (2016). Polynomial biplots for ordered three-way correspondence analysis. International Meeting of the Psychometric Society, Asheville, NC, 12-15 July.
- Kroonenberg, P.M. (2017). Searching for a SEM. Working group Structural Equation Modelling. Gent, Belgium, 16-17 March.
- Kroonenberg, P.M. (2017). Searching for a SEM. The 17th Conference of the Applied Stochastic Models and Data Analysis International Society. London, UK, 6 – 9 June.
- Kroonenberg, P.M. & Harshman, R. A. (2017). Cattell's parallel proportional profiles. The triumph of a prodigal principle. International Meeting of the Psychometric Society, Zürich, Switzerland, 18-21 July.
- Kroonenberg, P.M. (2017). The tale of Cochran's rule. Meeting of the International Federation of Classification Societies. Tokyo, Japan. 8-10 August 2017.
- ✕•Kroonenberg, P.M. (2017). Saporta at Seventy. In Skiades, C. H. (Ed.), Proceedings 17 th ASMDA, International Conference. London., p. 1-10.
- Kroonenberg, P.M. (2017). The use of deviance plots for non-nested model selection in diverse models. In Skiades, C. H. (Ed.), Proceedings 17 th ASMDA, International Conferenc, London.
- •Lombardo, R., Beh, E.J. & Kroonenberg, P.M. (2017). Hybrid decomposition for three-way correspondence analysis with nominal-ordinal variables. Meeting of the International Federation of Classification Societies. Tokyo, Japan. 8-10 August 2017.
- •Kroonenberg, P. M. (2018). Issues in building three-way analysis software. Tricap. Angel Fire Resort, NM, USA, 10 – 15 June.; also at International Meeting of the Psychometric Society, New York City, NY, USA, 9-13 July.
- Van Ginkel, J.R., & Kroonenberg, P.M. (2018). Using multiple imputation to balance unbalanced designs for two-way analysis of variance. Meeting of the International Psychometric Society, New York City, NY, USA, 9-13 July.
- Kroonenberg, P. M. (2018). Bibliographic analyses of handbooks: A proposal. Handbooks as a source of data for mapping scientific disciplines. *23rd International Conference on Science and Technology Indicators*. Leiden: The Netherlands, 14 September.
- Kroonenberg, P. M. (2022). Three-mode humanities examples. Presented at Tricap2022. Buoux, France. 27-30 June 2022.

## G. TALKS

### 1980 - 1989

- Kroonenberg, P.M. (1980). On exact and asymptotic tests for independence in  $r \times c$  contingency tables. Presented at Rothamsted Experimental Station, Harpenden UK, October 1980.
- ✕Kroonenberg, P.M. (1981). Een algoritme om exacte overschreidingskanswewn te bepalen in een  $r \times c$  kruistabel met vaste marginales. Lezing voor de Pakettenclus van de VVS. Amsterdam, 15 mei 1981.
- Kroonenberg, P.M. (1982). Longitudinaal onderzoek en drieweg principale componenten analyse [Longitudinal research and three-mode principal component analysis]. Given to the Study Group "Methodologie Longitudinaal Onderzoek", Utrecht, 22 January 1982.
- ✕Van der Kloot, W.A., & Kroonenberg, P.M. (1982). Gezamenlijke en impliciete persoonlijkheidstheorieën: Een toepassing van drieweg principale componenten analyse [Implicit theories of personality analysed with three-mode principal component analysis]. Presented at the Nederlandse Stichting voor de Psychometrie, Amsterdam, 22 April 1982.
- •Kroonenberg, P.M. (1984). Drieweganalyse [Three-mode analysis]. Presented at the Department of SSOR, Technical University Delft, 17 December 1984.
- ✕Kroonenberg, P.M. (1986). Three-mode data structures, models, and methods. Theory (I), Applications (II). Presented at the Industrial Products Research Institute, Tsukuba, Japan, 3 & 5 February 1986.
- ✕Kroonenberg, P.M. (1987). Three-mode data structures, models, and examples. Presented at the Department of Psychology, University of Queensland, St. Lucia, 7 August 1987

- ✕Kroonenberg, P.M. (1987). Three-mode principal component analysis, or many data come into boxes as do soybeans. Presented at the Department of Mathematics, University of Queensland, St. Lucia, 2 November 1987.
- Kroonenberg, P.M. (1988). Boxed data sets and their analysis illustrated with a twin box. Presented at St. Vincent Hospital, University of New South Wales, Sydney, Australia, 1 February 1988.
- Kroonenberg, P.M. (1988). Approaches to three-mode data analysis: Methodological issues and applications. Presented at the Dipartimento di Statistica, Probabilità e Statistiche Applicate, Università di Roma "La Sapienza", Rome, Italy, 17 March 1988.
- Kroonenberg, P.M. (1988). Analysis of multiple covariance matrices illustrated with the WISC-R. Presented at the Department of Psychology, University of Queensland, St. Lucia, Australia, 15 April 1988.
- •Kroonenberg, P.M. (1988). Three-mode data analysis. One-day workshop held for the Departments of Education and Psychology, University of Western Australia, Perth, Australia, 12 May 1988.
- Kroonenberg, P.M. (1989). Three-mode analysis: Many data come in boxes, as do drunken twins. Paper presented at the Ontario Institute for Schooling and Education, Toronto, Ontario, 16 June 1989.
- ✕Kroonenberg, P.M. (1989). Applied three-way data analysis. A two-day course held at the College of Education, University of Ohio, Athens, OH, 6-7 July 1989; (Lecture notes)

#### *1990 - 1999*

- Kroonenberg, P.M. (1990). Analyse des tableaux à trois entrées: Modèles et exemples. Université Paul Sabatier, Toulouse, France.(announcement, abstract)
- ✕•Kroonenberg, P.M. & Verbeek, A.(1990). Modelling two parallel streams of observations with multinomial response models. Université Paul Sabatier, Toulouse, France . Paper also presented to Statistical Society of Australia, Queensland Branch, Brisbane, Qld, 4 March 1991.
- Kroonenberg, P.M. (1990). Short graduate course in Multivariate Data Analysis. Department of Mathematics, University of Queensland, Brisbane, Qld, 5, 12, & 19 March 1991.
- Kroonenberg, P.M., & Basford, K.E. (1991).A three-way data analysis in agriculture. The problem and some solutions illustrated with the selection of soybeans. Department of Agriculture, University of Queensland, Brisbane, 20 March 1991. (announcement)
- ✕•Kroonenberg, P.M., & Van IJzendoorn, M.H. (1991).Meta-analysis of classifications in attachment research. Department of Psychology, University of Queensland, Brisbane, Qld, 22 March 1991.
- ✕•Kroonenberg, P.M. (1991). Analyzing three-way data: 13 years of alpine grass data from Mount Kosciusko. Division of Wildlife and Ecology, CSIRO, Canberra, 28 March 1991.
- ✕Kroonenberg, P.M. (1991). Three-way data analysis in psychology: The problem and some solutions illustrated with drunken Australian twins. Department of Psychology, La Trobe University, Melbourne, 15 April 1991. (abstract)
- ✕Kroonenberg, P.M. (1991). One-day workshop on Three-mode Factor Analysis. Department of Psychology, University of Melbourne, 20 April 1991.(announcement)
- ✕Kroonenberg, P.M. (1992, 1993). Drieweg koffiedik kijken [A three-way look at coffee]. Department of Marketing Science Erasmus, University Rotterdam, 18 November 1991; Vakgroep Theorie en Methoden, Rijksuniversiteit Utrecht, 12 March 1992; Vereniging voor Ordinatie en Classificatie, Utrecht, 29 April 1993.
- ✕Kroonenberg, P.M. (1992). Models and methods in three-way data analysis. A psychometric perspective.. Center for Process Analytical Chemistry, University of Washington, Seattle, 4 June 1992.
- Kroonenberg, P.M. (1993). PCA for three-way table. Dipartimento di Matematica e Statistica, Università di Napoli Federico II, 10 October 1993.
- ✕Kroonenberg, P.M. (1994). Data analysis for three-way data: Models, methods, and applications. Wirtschaftswissenschaftliche Fakultät Humboldt-Universität zu Berlin, 8 December 1994.(announcement)
- Kroonenberg, P.M. (1995). Interpretation of biplots. Contribution to a course on Statistical Models and Methods for Plant Breeders, Perth, 11-17 February 1995.

- ✕Kroonenberg, P.M. (1995). Clinical versus statistical classifications of infants in the Strange Situation. Department of Psychology, University of Queensland, Australia, 10 March 1995.(announcement)
- ✕Kroonenberg, P.M. (1995). Asymmetric correspondence analysis: The case of the shoplifting Dutchmen. Australian Statistical Society, Queensland Branch, St. Lucia, Australia, 21 March 1995.(announcement)
- ✕Kroonenberg, P.M. (1995). Workshop on three-mode principal component analysis using Australian Risk Perception Data (Dr. B. Rohrmann). Department of Psychology, University of Melbourne, Melbourne, Australia, 28 April 1995.(announcement)
- Kroonenberg, P.M. (1996). Three-mode correspondence analysis. National Institute of University Entrance Examinations, Tokyo, Japan, 5 April 1996.
- ✕Kroonenberg, P.M. (1996). Multiplicative decompositions for three-way analysis-of-variance designs without replication. Department of Mathematics, Chiba University, Chiba, Japan, 22 April 1996.(announcement)
- ✕Kroonenberg, P.M., & Kashima, Y. (1996). Cross-cultural differences in respect for others analyzed with three-mode principal component analysis. Department of Education, Rikkyo University, Tokyo, Japan, 24 April 1996.
- ✕Kroonenberg, P.M. (1996). Recent developments in three-mode analysis. Wirtschaftswissenschaftliche Fakultät Humboldt-Universität zu Berlin, 16 December 1996.(announcement)
- Kroonenberg, P.M. (1997). An interaction on interactions. Applied Statistics Seminar, University of Massachusetts, Amherst, MA, 12 May 1997.
- ✕Kroonenberg, P.M. (1997). Three-mode analysis: Data, models, examples (One-day course). Koç University, Istanbul, Turkey, 8 July 1997.(announcement)
- Kroonenberg, P.M. (1998). Nonlinear principal component analysis. The case of the Australian peanuts. Vereniging voor Classificatie en Ordinatie, Wageningen, 25 April 1998.
- Kroonenberg, P.M. (1999). One-day course on Three-mode analysis. Department of Mathematical Statistics, University of Stockholm, Stockholm, 13 January 1999.
- ✕Kiers, H.A.L. & Kroonenberg, P.M. (1999). Driedaagse cursus Drieweganalyse voor promovendi [Three-day postgraduate course on Three-mode analysis. Groningen, 2-4 July 1999.
- Kroonenberg, P.M. (1999). Introduction to three-mode analysis. Department of Biostatistics, Rush-Presbyterian-St. Luke's Medical Center, Chicago, 30 July 1999
- Kroonenberg, P.M. (1999). Introduction to three-mode analysis. Department of Medicinal Pharmacology, University of Illinois at Chicago, Chicago, 28 July 1999
- Büyükkurt, K. & Kroonenberg, P.M. (1999). Capturing perceptual heterogeneity at the individual and group level by three-mode components analysis. Concordia University, Montreal, Canada, 9 November 1999.

#### **2000 - 2004**

- ✕Kroonenberg, P.M. (2000). Algorithmes de traitement de tableaux à 3 entrées. Département Mathématique, Université Paris-Sud 11, 15 Juin 2000.(announcement)
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- Kroonenberg, P.M. (2001). Introduction to three-mode analysis. Department of Educational Psychology, University of Nagoya, 1 August 2001.
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