

CURRICULUM VITAE

D.J. DE WAAL



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D J DE WAAL

1. PERSOONLIKE BESONDERHEDE:

Naam : Daniel Jacobus de Waal

Geboortedatum : 4 Januarie 1941

Geboorteplek : Boshof

Huwelikstaat : Getroud met Verena A. Vermaak

Kerkverband : N.G.

Gesinsbesonderhede : Vier kinders : Hennie (08.10.66),
Annelien (09.09.69),
Danie (09.03.72),
Erena (05.09.79)

Huisadres : Brinkstraat 8, Universitas, Bloemfontein 9301

Werkadres : Posbus 339, Dept. Wiskundige Statistiek en
Aktuariële Wetenskap
UOVS, Bloemfontein 9300

Nasionaliteit : Suid-Afrikaner

Huidige betrekking : Professor, Departementshoof

2. KWALIFIKASIES:

2.1 **Skoolopleiding** : Roodakskool, Boshof.
Matrikuleer, eerste klas, onderskeiding in Wiskunde 1958

2.2 **Naskoolse opleiding**

| | | | |
|-------------------------|----|-----------------------------------|------|
| B.Sc. (Agric) | UV | Wiskunde, Statistiek*, Biometrie* | 1962 |
| B.Sc. (Agric) Hons. | UV | Biometrie/Statistiek* | 1963 |
| M.Sc. (Agric) (met lof) | UV | Biometrie/Statistiek | 1964 |
| Ph.D. | UK | Wiskundige Statistiek | 1968 |

* **Onderskeiding.**

3. **WERKSONDERVINDING:**

| | | | | |
|-------------|---|---|---|----|
| 1964 | : | Tydlike Deeltydse Dosent in Biometrie | : | UV |
| 1965 - 1968 | : | Lektor in Statistiek | : | UV |
| 1969 - 1970 | : | Senior Lektor in Wiskundige Statistiek | : | UK |
| 1971 - 1976 | : | Professor in Wiskundige Statistiek | : | UV |
| 1977 - | : | Departementshoof, Wiskundige Statistiek | : | UV |
| 1985 - | : | Waarnemende Dekaan by geleentheid | : | UV |
| 2000 - | : | Vise Dekaan (Natuur- en Landbou Wet) | : | UV |
| 2003 | : | Waarnemende Dekaan (Natuur- en Landbou Wet) | : | UV |
| 2006 | : | Tree af op 65 jr. Kontrak aanstelling as Departementshoof tot einde 2009 | : | UV |

4. **LIDMAATSKAP VAN ORGANISASIES:**

4.1 **Nasionaal**

SA Statistiese Vereniging
Raad vir Natuurwetenskaplikes
SA Akademie tot 2006

4.2 **Internasionaal**

International Statistical Association

5. **LIDMAATSKAP VAN UNIVERSITEITSKOMITEES:**

DIEN TANS OP

- Raad van UV vanaf 1988- 2006.
- Uitvoerende Komitee van die Raad vanaf 1989 -2006.
- Uitvoerende Bestuur van die Universiteit vanaf 1998-2006
- Dagbestuur van Fakulteit 1978 - 2003
- Navorsingskomitee van Natuurwetenskappe 1978 -2003.
- Pensioenfonds, Voorsorgfonds en Ongeskiktheidsreserwefonds Bestuursrade van UV 1989-.

HET GEDIEN OP

- Eregraad Komitee (UV 1989 - 1994)
- Ad Hoc komitees van die Universiteit :
Komitee vir Personeelvoorsiening (Voorsitter)
Komitee vir Missie van UV (Lid)
Komitee vir Engels Medium Onderrig Implikasies (Voorsitter).
- Verskeie Ad Hoc komitees van die Fakulteit.
- Raadskomitee op Buitewerk deur personeel.
- Raad van Trustees van UV.

6. LIDMAATSKAP VAN STATUTÊRE RADE, ONDERSOEK-KOMITEES ENS.:

DIEN TANS OP

- Komitee van die Internasionale Statistiese Instituut vir Risiko Analise.
- NRF evalueringskomitee (Jong navorsers).
- Raad vir Statistiek SA

HET GEDIEN OP

- SARN.
- Advieskomitees van WNNR, RGN, MNR.
- SNO Kolloquium en Evalueringskomitee.
- GMR Statistiekkomitee.
- Vrystaatse Eksamenraad.
- Amalusi, Statistiek-komitee

7. LIDMAATSKAP : PROFESSIONEEL EN VAKKUNDIG:

- 7.1 Verkose lid tot International Statistical Institute (1980 -).
- 7.2 Lid : American Statistical Association (1970 - 1990).
- 7.3 Lid en Genoot : SA Statistiese Vereniging (1964 - 1983).
- 7.4 Lid van SA Akademie vir Wetenskap en Kuns (1975 -).
- 7.5 Lid van Raad vir Natuurwetenskaplikes.

8. SPEZIALE VERERINGS EN TOEKENNINGS:

- 8.1 Havenga prys vir Wiskunde 1985.
- 8.2 Verkies as lid van die Internasionale Statistiek Instituut.
- 8.3 Genoot van SA Statistiese Vereniging vanaf 1975.
- 8.4 SNO evaluering : B 1988 – 1993
C 1993 –
- 8.5 Prestasie toekenning ontvang van ESKOM in Nov 1998 en Nov 2001.
- 8.6 Prestasie toekenning ontvang van ESKOM in Nov 2002.
- 8.7 Eeufees Medalje – 2004
- 8.8 Aangestel (2005) as lid van die Suid-Afrikaanse Raad vir Statistiek vir 'n periode van 3 jaar by die Minister van Finansies.

9. ANDER AKADEMIESE BYDRAES EN BETROKKENHEID:

- 9.1 Kongresse waartydens referate aangebied is en Navorsings-besoeke

Buitelands :

- 1975 – 1976 Universiteit van Noord Carolina vir 9 maande,
Drie maande by Stanford Universiteit.
- 1979 VSA Statistiek Kongres en besoek Universiteit Minnesota.
- 1986 Holland – ISI Kongres.
- 1987 Spanje – Bayes Kongres.
- 1989 Frankryk – ISI Kongres.
- 1991 Spanje – Bayes Kongres.
- 1993 San Francisco – Statistiek Kongres.
- 1994 Spanje – Bayes Kongres.
- 1995 Denemarke/Rusland – Statistiek Kongres/besoek.
- 1996 Washington DC – Statistiek Kongres.
- 1997 Nottingham, UK – Bayes Kongres, 5 – 21 Julie.
- 1998 Alcossebrè, Spanje – Bayes Kongres 31 Mei - 3 Junie.
- 1999 Hongarye – Colloquium , 28 Junie – 2 Julie.
- 2000 Limburgs Universiteit, Diepenbeek, België, 8 – 12 April.
- 2000 6de ISBA Kongres, 28 Mei – 7 Julie, Crete Griekeland.
- 2000 3de Internasionale Werkswinkel, 20 – 23 September, Ixtapa, Mexico.
- 2001 België en Nederland, Universiteite van Leuven en Delft.
- 2002 België en Nederland, Universiteite van Leuven en Delft.
- 2003 België en Nederland, Universiteite van Leuven, Limburgs en Delft.
- 2004 3rd International Symposium on Extreme Value Analysis: Theory.
Aveiro, Portugal
- 2004 TUniversity, Delft
- 2004 Catholic University, Leuven
- 2005 TUniversity Delft, CA University Leuven
- 2006 George Washington University USA, Duke University VSA
- 2007 Katolieke Universiteit Leuven en TU Delft

Binnelands : Lewer gereeld 'n referaat tydens die jaarlikse SA Statistiese Vereniging se kongres en het by twee geleenthede spesiale uitnodigingslesings gelewer.

- 2000 Werkswinkel, 20 Januarie, SA-Vlaamse navorsingsprojek,
Potchefstroom Universiteit vir CHO.
- 2000 Werkswinkel, 2 – 4 Februarie, aangebied deur dr Jean-Louis Foulley,
Direkteur Navorsing van die Departement Diere Genetika verbonde aan die
INRA-Sentrum Jouy-en-Josas Cedex, Frankryk.
- 2000 Werkswinkel 9 en 10 Julie, SA–Nederland (SANPAD) navorsing
samewerking.
- 2002 Werkswinkel 16 – 18 Januarie, SA-Vlaamse projek, Wildekus,
Transkei.
- 2002 Werkswinkel 3 – 5 April, ISBASA, Stellenbosch.
- 2002 Werkswinkel 17 – 19 April, SANPAD projek, Delft Universiteit,

Nederland.

- 2003 Werkswinkel SANPAD projek, UV
- 2004 Werkswinkel SANPAD projek, UV
- 2004 Werkswinkel RISIKOLABORATORIUM
- 2004 Konferensie SASV
- 2005 Konferensie SASV
- 2007 Werkswinkel Flaamse-projek, Hasselt Univ.

9.2 Lesings op spesiale uitnodiging

- 1981 Universiteit British Columbia, Kanada (maand navorsingsbesoek)
- 1986 Multivariate Symposium, Ohio
- 1992 Universiteit Minnesota, VSA
- 1993 Purdue Universiteit, VSA
- 1996 Universiteit Chicago, VSA
Universiteit North Carolina, Chapel Hill, VSA
Universiteit Minnesota, Minneapolis, VSA
Universiteit British Columbia, Kanada, VSA
Purdue Universiteit, VSA.
- 1998 Leuven België.
- 1999 Diepenbeek, België, George Washington Univ. VSA.
- 2000 Leuven België en Delft Nederland.
- 2001 Delft Nederland, Leuven België, Potchefstroom vir CHO,
Universiteit van Stellenbosch.
- 2003 Limburgs Universiteit, Diepenbeek, België.
- 2004 3rd International Symposium on Extreme Value Analysis: Theory.
Aveiro, Portugal
- 2004 TUniversity, Delft
- 2004 Catholic University, Leuven
- 2005 TUniversity Delft, CA University Leuven
- 2006 George Washington University VSA; Duke University VSA

- 9.3 **Programorganiseerder** vir internasionale Bayes Konferensie te Kaapstad, 15-22 Desember 1996.

- 9.4 **Studieleiding aan nagraadse studente :**
18 Ph.D's as promotor en 4 Ph.D's as medepromotor.

Promotor van :

| | | | |
|-----------------|--------|----------------|--------|
| Proff. D.G. Nel | (1973) | Drr. D.G. Marx | (1981) |
| N.A.S. Crowther | (1973) | C. Lombard | (1981) |
| A.J. vd Merwe | (1977) | J.M. van Zyl | (1984) |

| | | | |
|-------------------|--------|---------------|--------|
| T. McDonald | (1977) | I. Garisch | (1986) |
| P. Nagel | (1978) | P.W. Steyn | (1990) |
| P.C.N. Groenewald | (1978) | C.J. Kemp | (1994) |
| J.I. de Wet | (1979) | Z.B. Worku | (1998) |
| H.F.P Rautenbach | (1980) | A. van Biljon | (2000) |
| T. Kotze | (1980) | V Micali | (2007) |
| H.G. Luus | (1982) | A Nel | (2008) |

Medepromotor van:

| | | |
|------|--------------------|--------|
| Drr. | P.J.M. von Maltitz | (1979) |
| | C.A. van der Merwe | (1986) |
| | C.J. Auret | (1986) |
| | V. Makuvha | (1991) |

Kandidate tans ingeskrewe:

| | | |
|-------------|---------------------|----------------|
| Ph.D | <u>Promotor van</u> | Mnr A.M. Naudé |
| | | Mnr. J. Botha |
| | | Me E. Ntja |
| | | Mnr W Thupeng |

9.5 Eksterne eksaminator en evalueringsbetrokkenheid

9.5.1 Eksterne eksaminator:

Het etlike kere as eksterne eksaminator vir Ph.D grade opgetree.

9.5.2 Departementele evalueerder vir Universiteit van Port Elizabeth, 1993.
Departementele evalueerder vir PU vir CHO, 1995.
Departementele evaluering Stellenbosch 2006

9.6 Redaksionele betrokkenheid

1978 – 1979 : Mede Redakteur – SA Statistiese Joernaal.

9.7 President van die SA Statistiese Vereniging 1985.

9.8 Nasionale en Internasionale samewerking:

1. Vlaam-SA projek (1998 – 2003): Medewerker op projek tussen Leuven, Limburgs, PU vir CHO, UV en Fort Hare.
2. Nederland-SA projek (1999 – 2004): SANPAD projekteier.
Samewerking TU. Delft, Fort Hare, UV.

10. GEMEENSKAPSDIENSBYDRAES:

- 10.1 ESKOM projek op watervoorsiening vir Hidrokragentrales in benede Oranje (1998 -)
- 10.2 Skep van Risiko laboratorium in departement (ondersteun deur ESKOM) (2003 -)

10.3 WNK projek op Radar-reënval data vir voorspelling van Caledon stroomvloei.

11. **BELANGSTELLINGS:**

Vrystaat Seiljagklub vanaf 1984. Gids vir Seiljagvaart op die Gariepdam opgestel, 1985.

Seilsport, Tennis, Muurbal, Buitelewe

12. **PUBLIKASIES:**

1969 :

1. De Waal, D.J. : An asymptotic distribution for the determinant of a noncentral Beta statistic in multivariate analysis. *South African Statistical Journal. 2, 77–84.*
2. De Waal, D.J. : On the noncentral distribution of the largest canonical correlation coefficient. *South African Statistical Journal. 3, 91–93.*
3. De Waal, D.J. : The noncentral Beta type 2 distribution. *South African Statistical Journal. 3. 101–108.*

1970 :

4. De Waal, D.J. : Distributions connected with a multivariate Beta statistic. *Ann. Math. Statist. 41, 1091–1095.*

1972 :

5. De Waal, D.J. : On the expected values of the elementary symmetric functions of a Wishart matrix. *Ann. Math. Statist. 43, 344–347.*
6. De Waal, D.J. : An asymptotic distribution on non-central multivariate Dirichlet variates. *South African Statistical Journal. 7, 61–67.*

1973 :

7. De Waal, D.J. and Nel, D.G. : On some expectations with respect to Wishart matrices. *South African Statistical Journal. 7, 61–67.*
8. De Waal, D.J. : On the ESF'S of the Wishart and correlation matrices. *South African Statistical Journal. 7, 47–60.*
9. Crowther, N.A.S. and de Waal, D.J. : On the distribution of a generalized positive semi-definite quadratic form of normal variates. *South African Statistical Journal. 7, 119–127.*

1974 :

10. De Waal, D.J. : Bayes estimate of the non-centrality parameter in multivariate analysis. *Comm. in Statistics*, 3(1), 73–79.

1975 :

11. De Waal, D.J. : Bayesian inferences on the non-centrality parameter of Hotellings— T^2 statistic. *South African Statistical Journal*. 8, 1–10.

1976 :

12. De Waal, D.J. : A review of tests of various hypotheses in multivariate statistical analysis. *South African Statistical Journal*. 10, 153–174.

1977 :

13. De Waal, D.J. : Limiting distributions of the elementary symmetric functions of some random matrices. *South African Statistical Journal*. 11, 1–11.
14. De Waal, D.J. : Asymptotic distributions for the ESF'S of two matrices under the assumption of linearity. *J. Multivariate Analysis*, 7, 223–228.

1978 :

15. De Waal, D.J. : The expected values of the elementary symmetric functions of some matrices. *South African Statistical Journal*. 12, 75–82.
16. Van der Merwe, A.J. and de Waal, D.J. : The asymptotic expansions of the Stein estimators for the vector case. *Ann. Inst. Statistical Math.* 30, A, 385–396.

1979 :

17. Groenewald, P.C.N. and de Waal, D.J. : An asymptotic distribution for the coefficient in a multiple time series. *South African Statistical Journal*. 13, 15–28.
18. De Waal, D.J. : On the normalizing constant for the Bingham–Von Mises–Fisher matrix distribution. *South African Statistical Journal*. 13, 103–112.
19. Nagel, P.J.A. and de Waal, D.J. : Bayesian classification, estimation and prediction of growth curves. *South African Statistical Journal*. 13, 127–138.

1981 :

20. De Waal, D.J.; van der Merwe, A.J.; Groenewald, P.C.N.; Nel, D.G. and Lombard, C.J. : Model selection, prediction and estimation for multivariate normal populations. *South African Statistical Journal*. 15, 113–127.

1982 :

21. De Waal, D.J.; van der Merwe, A.J.; Groenewald, P.C.N. : Prediction in multivariate regression analysis. *South African Statistical Journal*. 16, 39–53.

22. De Waal, D.J. : Appendix in : Temporal fluctuations in the numbers of female mosquitoes trapped at a site in the Western Orange Free State. *J. Ent. Soc. South Africa*, 45, 69–92
23. Rautenbach, H.F.P.; Els, D.L. and de Waal, D.J. : 'n Trosanalise as meervoudige vergelykings prosedure vir pare kontraste – 'n Empiriese evaluasie en vergelyking met twee bekende prosedures. *Agroplanta*, 14, 35–41.

1983 :

24. Van der Merwe, A.J.; Groenewald, P.C.N.; de Waal, D.J. and van der Merwe, C.A. : Model selection for future data in the case of multivariate regression analysis. *South African Statistical Journal*. 17, 147–164.
25. De Waal, D.J. : Quadratic forms and manifold normal distributions. Contributions to statistics. Ed. P.K. Senl. pp. 115–121. (North Holland).
26. De Waal, D.J. : 'n Oorsig oor statistiese Bayesbeslissings teorie in die geval van meer as een individu. *S.A. Tydskrif vir Natuurwetenskap en Tegnologie* 2, 206–214. (Uitnodigings artikel)

1984 :

27. De Waal, D.J.; Garisch, I. and Groenewald, P.C.N. : A super Bayesians' solution to a multi-Bayesian decision problem. *South African Statistical Journal*. 18, 111–122.
28. Nel, D.G.; de Waal, D.J. and Marx, D.G. : A predictive approach to the detection of additional information in a multivariate regression model. *Communications in Statistics – (Theory and Meth.)* 13, 2119–2132.

1985 :

29. De Waal, D.J. : Matrix-valued distributions. *Encyclopedia of Statistical Sciences* Vol. 5. Ed. Kotz and Johnson, p. 326–333.
30. Van Zyl, J.M. and de Waal, D.J. : The multi-Bayesian sequential decision procedure. *South African Statistical Journal*. 19, 35–44.
31. De Waal, D.J. and Maritz, J.S. : An empirical Bayes approach in estimating the parameters of two or more geometric distributions. *Comm. in Statistics – (Theory and Meth.)* 14, 2997–3006.
32. De Waal, D.J.; Groenewald, P.C.N.; Van Zyl, J.M. and Zidek, J.V. : A Randomized solution for multi-Bayes estimates of the multinormal mean. *Int. Statist. Math.* 37, 481–486.

1986 :

33. De Waal, D.J.; Groenewald, P.C.N.; Van Zyl, J.M. and Zidek, J.V. : Multi-Bayesian estimation theory. *Statistics and Decisions*, 4, 1–18.

1987 :

34. De Waal, D.J. : Test of hypothesis in a multivariate hypergeometric case using a Bayesian approach. *South African Statistical Journal*. 27, 13–26.

1988 :

35. De Waal, D.J. : On Bayes estimation and hypothesis testing. *S.A. Journal for Science and Technology*, 7, 28–32. (Guest speaker at the S.A. Academy in Afrikaans).

36. De Waal, D.J. and Groenewald, P.C.N. : Bayesian tests for hypothesis of the equality of multinomial Probabilities. *South African Statistical Journal*. 22, 87–104.

37. De Waal, D.J. and Nel, D.G. : A procedure to select a ML-II prior in a multivariate normal case. *Comm. Statist. – Simula.*, 17(3), 1021–1035.

1989 :

38. De Waal, D.J. and Groenewald, P.C.N. : Bayesian tests for some precise hypotheses on multi-normal means. *Austral. J. Statist.*, 31, No.3.

39. De Waal, D.J. and Groenewald, P.C.N. : A Discussion on measuring the amount of information from the data in a Bayesian analysis. *South African Statistical Journal*. 23, 1, 23–62.

40. De Waal, D.J. and Groenewald, P.C.N. : A Bayesian analysis of the bio-availability of four brands of medicine. *Australian J. of Statistics*.

1990 :

41. Garisch, I.; de Waal, D.J. and Groenewald, P.C.N. : The use of utilities and experts in decision-making. *Commun. in Statistics – (Theory and Meth.)*, 20, No.1, 333–344.

42. Van Tonder, G.J.; Botha, J.F. and de Waal, D.J. : Bayesian estimation of waterlevels. Model Care 90 : Calibration and Reliability in Groundwater modelling. Proceedings of Conference, The Hague, 1990. IAHS. Publ. 195, 477–486.

1991 :

43. Garisch, I.; de Waal, D.J. and Groenewald, P.C.N. : The use of utilities and experts in decision-making. *Commun. in Statistics – (Theory and Meth.)*, 20, No.1, 333–344.

1993 :

44. Steyn, P.W. and de Waal, D.J. : Occupancy distributions for testing marginal homogeneity. *Commun. in Statistics – (Theory Meth.)*, 22(5), 1299–1314.

1994 :

45. Makhuvha, V.T.; Groenewald, P.C.N. and de Waal, D.J. : Posterior probabilities for some regression hypotheses. *South African Statistical Journal.*, 28, No.2, p51–83.

1995 :

46. De Waal, D.J. Groenewald, P.C.N. and C.J. Kemp : Perturbation of the normal model in linear regression. *South African Statistical Journal*, 29, 105–130.
47. De Waal, D.J. and Groenewald, P.C.N. : Bayesian estimation of ground-water levels. *South African Statistical Journal.*, 29, p65–78.
48. De Waal, D.J. and Kemp, C.J. : A Bayesian model for estimating the failure rate for different groups. *South African Statistical Journal*, 29, 131–154.

1996 :

49. De Waal D.J. : Goodness of fit of the Generalized Extreme Value distribution based on the Kullback–Leibler information. *South African Statistical Journal*, 30, 139–153.
50. Makhuvha, V.T., Groenewald, P.C.N. and de Waal, D.J. : Bayesian tests for the balanced two-way analysis of variance model. *Journal of Statistical Planning and Inference*, 53, 345–359.

1997 :

51. De Waal, D.J. : Number of tea bags left in the box. *The Mathematical Scientist*, 22 No.1, 45–51.

1998 :

52. De Waal, D.J. : Posterior distribution of measures of association between predictors of horse racing results. *South African Statistical Journal*, 32, 83–101.
53. De Waal, D.J., Worku, Z.B. and Groenewald, P.C.N. Effect of the duration of breastfeeding on the lifetime of children in Lesotho. *South African Statistical Journal*, 32, 67–82.

1999 :

54. De Waal, D.J. : Discussion on "Bayesian Methods in the Atmospheric Sciences" by Berliner, L.M. Royle, A., Wilke, C.K. and Milliff, R.F. In Bayesian Statistics 6. J.M. Bernardo, J.O. Berger, A.P. Dawid and A.F.M. Smith (Eds.) Oxford University Press. 83–00.

2000 :

55. Beirlant, J., de Waal, D.J. Teugels, J.L. A Multivariate Generalized Burr–Gamma Distribution. *South African Statistical Journal*, Vol.34, nr 2.

2001 :

56. De Waal, D.J., Beirlant, J. Bayesian Methods with applications to science, policy and official statistics, selected papers from ISBA 2000 : Monographs of Official Statistics – George, I.E. (ed). Eurostat, 119-124.

2002 :

57. Beirlant J., de Waal D.J., Teugels J.L.
The generalized Burr–gamma family of distributions with applications in extreme value analysis. Proceedings of the 4th Conference on Limit Theorems in Probability and Statistics of the J. Bolyai Soc. Vol. 1, 113-132.

2003:

58. De Waal, D.J., Van Gelder P.H.A.J.M. and Beirlant, J.: Joint modelling of daily maximum wind strengths. Paper under review for J. Wind Engineering.

59. De Waal, D.J.: Bayesian Methodology in Extreme Value Statistics. Chapter in book by Beirlant and Teugels on Extreme Values, Wiley (too appear in 2003).

2004:

60. De Waal, D.J., Van Gelder P.H.A.J.M. and Beirlant, J. (2004): Joint modelling of daily maximum wind strengths through the multivariate Burr-Gamma distribution. *J. Wind Engineering and Industrial Aero-dynamics* 92, 1025-1037.

2006:

61. De Waal, D.J. Van Gelder, P.H.A.J.M. (2006): Modelling of extreme wave heights and periods through copulas. *Extremes*, Vol. 9, 000-000.

2007:

62. De Waal, D.J., Van Gelder, P.H.A.J.M. and A Nel (2007): Estimating joint tail probabilities on Rhine discharges through the logistic copula. *Environmetrics* **18**: 621-631.

2008:

63. De Waal, D.J., Beirlant, J. and Dierckx, G. (2008): Predicting high quantiles through the Dirichlet Process on Extreme modeling. Accepted to *SA Statist. J.*

64. Dierckx G; Beirlant J and de Waal DJ (2008) : A new estimation method

for Weibull-type tails based on the mean excess function. Accepted for publication in Journal of Statistical Planning and Inference.

13. **TEGNIJSE VERSLAE:**

1975 :

1. De Waal, D.J. : Tests of various hypotheses in Multivariate Analysis – a review. Technical Report No. 1.

1976 :

2. Van der Merwe, A.J. and de Waal, D.J. : On James–Stein estimators in the case of Multivariate Statistical Analysis. Technical Report No. 3.
3. Nel, D.G. and de Waal, D.J. : On asymptotic expansions of the characteristic function of the trace of noncentral beta matrices. Technical Report No. 4.
4. De Waal, D.J. : Limiting distributions of the elementary symmetric functions of some random matrices. Technical Report No. 5.
5. Van der Merwe, A.J. and de Waal, D.J. : On the asymptotic expansion of the Stein estimator. Technical Report No. 9.
6. Lombard, C.J. and de Waal, D.J. : Certain Union– intersection tests and their limiting distributions. Technical Report No. 10.
7. De Waal, D.J. : The expected values of the elementary symmetric functions of some matrices. Technical Report No. 11.
8. Groenewald, P.C.N. and de Waal, D.J. : On the asymptotic distribution of the regression coefficient estimator. Technical Report No. 12.
9. Van der Merwe, A.J. and de Waal, D.J. : On the asymptotic expansion of the Stein estimator with matrix argument and covariance matrix $\Sigma = 1$. Technical Report No. 13.
10. Nagel, P.J.A. and de Waal, D.J. : On ordered multivariate discrete distribution. Technical Report No.14.
11. Nagel, P.J.A. and de Waal, D.J. : On ordered multivariate discrete distributions II. Technical Report No. 16.

1977 :

12. Nagel, P.J.A. and de Waal, D.J. : Bayesian classification and estimation of growth curves. Technical Report No. 19.

13. Groenewald, P.C.N. and de Waal, D.J. : On the asymptotic distribution of the regression coefficient with general covariance matrix. Technical Report No. 20.
14. Nagel, P.J.A. and de Waal, D.J. : Partial or conditional prediction from the growth curve model Technical Report No. 21.
15. De Waal, D.J. : Asymptotic distributions for tests on the covariance matrix. Technical Report No. 22.

1987 :

16. De Waal, D.J. : 'n Meerveranderlike Statistiese-analise op Skedel- en liggaamsmates van Stokstertmeerkatte. Technical Report No. 29.
17. De Waal, D.J. : A generalization of the Bingham and Von-Mises-Fisher distributions in orientation statistics. Technical Report No. 30.
18. Groenewald, P.C.N. and de Waal, D.J. : An asymptotic distribution for the coefficient in a multiple time series. Technical Report No. 31.
19. De Wet, J.I. and de Waal, D.J. : Monte Carlo studies op Meerveranderlike Stogastiese prosesse. Technical Report No. 33.
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