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Name: Rénette Blignaut

Position: Professor

Committees: Science Faculty Planning, Senate, Science Faculty Board, UWC Staff Development, Data Science Advisory Board

Qualifications: PhD (Statistics)

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Professional portfolio: available on request

Current modules: Honours Research Methodology, Masters Research Methodology, Masters Data Mining, Masters Industry research project, PG Diploma Project advisor.

Research topics: data mining, statistical learning, predictive modelling, biostatistics, mobile security, internet coverage and usage.

Publications since 2013 (DHET accredited articles\* & DHET accredited conference proceedings\*\*):

1. \*Brydon, H. & Blignaut, R.J. & Jacobs, J.J. 2019. A weighted bootstrap approach to logistic regression modelling in identifying risk behaviours associated with sexual activity. Journal of Social Aspects of HIV/AIDS (RSAH), 16(1), 62-29. https://doi.org/10.1080/17290376.2019.1636708.

2. \*Lailulo, Y.A., Appuni, S.S. & Blignaut, R.J. 2017. Improving Maternal and Reproductive Health in Ethiopia. Journal of Asian and African Studies, 52(7) ,947–964. Sagepub.co.uk/journalsPermissions.nav DOI: 10.1177/0021909615623810

3. \*\*Blignaut, R.J. Sheikh, O., Fray, R. 2017. Using critiques as a strategy for improving the proofs of the equivalence of ring theoretic concepts. SAMSA CONFERENCE, UNIVERSITY OF PRETORIA, 20 - 24 NOVEMBER 2016. Received: 16 November 2016; Accepted: 20 December 2016; Published: 11 January 2017.

4. \*Struthers, P., Wegner, L. De Koker, P., Lerebo, W. & Blignaut, R.J. 2017. Validity and reliability of the South African Health Promoting schools monitoring questionnaire. Health Promotion International, Volume 32(2), 260–270. doi: 10.1093/heapro/daw074 https://academic.oup.com/heapro/article/32/2/260/2555446

5. \*Karangwa, I., Kotze, D. & Blignaut, R.J. 2016. Multiple imputation of unordered categorical missing data: A comparison of the multivariate normal imputation and multiple imputation by chained equations. Brazilian Journal of Probability and Statistics 2016, 30(4), 521-539.

DOI link http://dx.doi.org/10.1214/15-BJPS292 http://projecteuclid.org/euclid.bjps/1481619615.

6. \*Blignaut, R.J., Venter, I.M., Renaud, K. 2016. Granny gets smarter but Junior hardly notices. The Journal of Community Informatics, 12(3), 159—172. ISSN: 1712-4441

http://ci-journal.net/index.php/ciej/article/view/1161

7. \*Rey-Moreno, C., Blignaut, R.J., Tucker, W., May, J., 2016. An in-depth study of the ICT ecosystem in a South African rural community: unveiling expenditure and communication patterns. Journal of Information Technology for Development, 22supl1:101-120. , DOI: 10.1080/02681102.2016.1155145 http://www.tandfonline.com/doi/full/10.1080/02681102.2016.1155145.

8. \*\*Renaud, K., Blignaut, R.J. and Venter, I.M., “Smartphone Owners Need Security Advice. How Can We Ensure They Get it?” (2016). CONF-IRM 2016 Proceedings. May 2016, Cape Town. South Africa (ISBN: 978-0-473-35594-4). Paper 20. http://aisel.aisnet.org/confirm2016/20

9. \*Lailulo, Y.A., Appuni, S.S. & Blignaut, R.J. 2015. Correlates of gender characteristics, health and empowerment of women in Ethiopia. BMC Women’s Health 2015, 15:116 doi:10.1186/s12905-015-0273-3. http://www.biomedcentral.com/1472-6874/15/116 Impact Factor 1.5.

10. \*\*Proceedings of the Tenth Southern Hemisphere Conference on the Teaching and Learning of Undergraduate Mathematics and Statistics ISBN 978-0-620-68294-7 Editors: Blignaut, R.J. and Kizito, R.

11. \*\*Venter, I.M., Blignaut, R.J. & Renaud, K.V. 2015. Blinkered Views of Out-Group Mobile Phone Usage: Moving Towards Less Stereotyping Of “Others”. SAICSIT ‘15, September 28-30, 2015, Stellenbosch, South Africa © 2015 ACM. ISBN 978-1-4503-3683-3/15/09, Paper 37. DOI: http://dx.doi.org/10.1145/2815782.2815804.

12. \*Blignaut, R.J., Jacobs, J.J. & Vergnani, T. 2015. Trends in HIV risk behaviour of incoming first-year students at a South African university:2007–2012, SAHARA-J: Journal of Social Aspects of HIV/AIDS, 12:1, 39-50, DOI:10.1080/17290376.2015.1086275.

13. \*Winnaar, L.D., Frempong, G. & Blignaut, R.J. 2015. Understanding school effects in South Africa using multilevel analysis: findings from TIMSS 2011. Electronic Journal of Research in Educational Psychology, 13(1), 151-170. ISSN: 1696-2095. 2015, no. 35 http://dx.doi.org/10.14204/ejrep.35.13116.

14. \*Venter, I.M., Blignaut, R.J. & Renaud, K.V. 2014. Uniformity in the midst of diversity. Journal for Engineering, Design and Technology, 12(4): 550 – 562. http://dx.doi.org/10.1108/JEDT-08-2013-0060 H-Index:7.

15. \*Swart, L.C.., Dreyer, W.P., Van Zyl, P.P, Blignaut, R.J. 2014. Early Loading of Mandibular Implants Placed Immediately After Extraction: A 10-year Prospective Study of Eight Patients. The International Journal of Oral and Maxillofacial Implants, 29(6):1388-96. Doi: 10.11607/jomi.3670. JOMI.5-year Impact Factor: 3.139

16. \*Appunni, S.S., Blignaut, R.J. and Lougue, S. 2014. TB/HIV risk factors identified from a General Household Survey of South Africa in 2006. SAHARA-J: Journal of Social Aspects of HIV/AIDS: An Open Access Journal, 11(1), 37-41, DOI: 10.1080/17290376.2014.912588 (ISSN 1729:0376), (ISSN: 1813-4424 (online). Impact Factor of 0.283

17. \*Appunni, S.S., Blignaut, R.J. & Longue, S. 2014. Understanding Issues of people living with disabilities in South Africa. Journals of Asian and African studies, 49(5):559-569. ISSN: 0021-9096. (ISSN: 0021-9096) (Scimago Lab, Copyright 2007-2013. Data Source: Scopus®), DOI: 10.1177/0021909613500640, http://www.jas.sagepub.com. SCImago Journal Rank Score: 0.293

18. \*Blignaut, R.J., Vergnani,T. & Jacobs, J. 2014. Correlates of sexual activity versus non-activity of incoming first-year students at a South African university. African Journal of Aids Research, 13(1):81-91. Doi: 10.2989/16085906.2014.901977. Impact Factor 2012: 0.262; 5-year Impact Factor: 0.502

19. \*Blignaut, R.J., Luus, R., Lombard, R., Latief, A., Kotze, D. 2013. Maths4Stats: Opleiding vir onderwysers. Suid-Afrikaanse Tydskrif vir Natuurwetenskap en Tegnologie; 32(1): 206-212. Doi: 10.4102/satnt.v32i1.405, submitted April 2013, published Nov 2013. ISSN: 0254-3486 (print) ISSN: 2222-4173 (online).Impact Factor: 1.75 (2011); Impact Factor: 0.26 (2012)

20. \*\*Renaud, K.V., Blignaut, R.J. & Venter, I.M. 2013. Designing Mobile Phone Interfaces for Age Diversity: “One-World” versus Diverse “Islands”. Human-Computer Interaction – INTERACT 2013 14th IFIP TC 13 International Conference, Cape Town, South Africa, September 2-6, 2013, Proceedings, P. Kotzé et al. (Eds.): INTERACT 2013, Part III, LNCS 8119, pp. 1–17, ISBN: 978-3-642-40476-4 (Print) 978-3-642-40477-1 (Online)

21. Venter, I.M., Blignaut, R.J. & Renaud, K.V. 2013. Reaching out to mobile phone “rookies” in two countries. World Conference on Computers in Education (WCCE 2013) in Poland, 2-5 July 2013, Poster with extended abstract. Editors: Nicholas Reynolds, Mary Webb, Maciej Syslo and Valentia Dagiene, Printed in Poland: Uniwersytat Mikolaja Kopernika, ISBN 978-83-231-3095-6, Vol 1:284-5.

22. \*\*Blignaut, R.J., Venter, I.M. & Renaud, K.V. 2013. A bridge over the computer science graduate skill gap. World Conference on Computers in Education (WCCE 2013) in Poland, 2-5 July 2013, Editors: Nicholas Reynolds and Mary Webb, Printed in Poland: Uniwersytat Mikolaja Kopernika, ISBN 978-83-231-3090-1, Vol 1:274-283.

Short description:

Renette Blignaut is currently the Deputy Chairperson of the Statistics and Population Studies Department and manages the masters with specialisation in Data Science. She served as Chairperson from 2005 to March 2012 and 2017 to June 2018. She completed her B.Sc. at the Rand Afrikaans University in 1982. Then started her career at the Medical Research Council. She completed her Honours in Mathematical Statistics on a part-time basis at the University of Pretoria in 1985. Rupert International then employed her in their research division as a Statistician. She returned to the Medical Research Council as a Bio-statistician and on a part-time basis completed her Master’s degree in Mathematical Statistics at the University of Cape Town (1990). At the beginning of 1992 she started her academic career as a senior lecturer in the Department of Statistics at the University of the Western Cape. A Ph.D. (University of Pretoria) was awarded to her in 1995 for a thesis on the “Modelling of claim patterns of members of private medical aid schemes”. Since then she has been conducting research in various fields namely: data mining, statistical learning, predictive modelling, biostatistics, mobile security, internet access and science education. In 2001, she was promoted to associate professor and in 2015 promoted to full professor. NRF rated C3 (2019-2021).

Research output: more than 68 accredited publications, 22 technical reports, 48 international and 50 national conference presentations, 47 workshop presentations. Supervised or co-supervised 24 masters and 5 PhD students.