

Michael Johan von Maltitz

Short Curriculum Vitae, April 2023

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Nationality: South African and British

Date of Birth: 18 April 1982

Marital Status and Family: Married, with 2 children.

Education

Tertiary Education

University attended: University of the Free State (UFS)

Degrees

- PhD Mathematical Statistics (2015)
- M.Sc. Mathematical Statistics* (2007); B.Sc.Hons. Mathematical Statistics* (2006)
- M.Com. Economics* (2005); B.Com.Hons. Money and Banking* (2004)
- B.Sc. w/spec. Actuarial Science* (2003)

*Degree with distinction

Professional papers completed

- CFA Level I (2008)
- Earned exemption from the Institute and Faculty of Actuaries subjects CT1-CT8

Academic Work Experience:

Positions held

- **[Current]** Senior Lecturer at the Mathematical Statistics Department, UFS (2018-)
- Programme Director: Mathematical Statistics and Actuarial Science, UFS (2009-2022)
- Lecturer at the Mathematical Statistics Department, UFS (2007-2018)
- Junior Lecturer at the Mathematical Statistics Department, UFS (2006)
- Assistant Researcher at the Economics Department, UFS (2005)
- Research Assistant at the Economics Department, UFS (2004)

Awards:

- **2022:** First place in the category: *Innovating my Curriculum through Assessment*. UFS Learning and Teaching Awards
- **2022:** Best Innovation in Curriculum Development Conference Paper. UFS Learning and Teaching Awards
- **2021:** UFS Khothatsa Award (*To Inspire*)
- **2021:** Selected for UFS SoTL Fellowship (Emerging Scholar)

- **2021:** Second place, *Vice-Chancellor's Award*. UFS Learning and Teaching Awards
- **2020:** Second place in the category: *Technology Enhanced Learning*. UFS Learning and Teaching Awards
- **2015:** Selected for Vice Chancellor's Prestige Scholars Programme (PSP)
- **2013:** Middleton Award for best published article amongst first-time authors for the South African Journal of Economics for the December 2011 to September 2012 cycle.
- **2012:** UFS Natural and Agricultural Sciences Faculty Teaching Award for a Junior Staff Member

Work experience summary

- Research experience: 19 years (2004-2022)
- Lecturing experience: 17 years (2006-2022)
- Administrative experience: 14 years (2009-2022). Duties included: Student registrations and academic advising; Quality assurance on Department's programmes and curricula; Departmental Academic Planning and Development Committee applications; Departmental system migrations (from Curriculum Management to Programme Enrolment); Departmental modules recurriculation processes; Departmental self-evaluation (audit) report; Departmental graduate attribute mapping; Working in various Natural and Agricultural Sciences Committees for L&T matters; Promotion and Performance Management System development team

Courses lectured

- Actuarial/Investment Science
 - Introduction to Investment Science (1st year)
 - Financial Mathematics (2nd year, actuarial equivalent CT1)
 - Investment Science (3rd year)
- Mathematical Statistics
 - Sampling Distribution Theory and Inference (2nd year)
 - Causal Inference: ANOVA, regression, and the potential outcomes approach (3rd year)
 - Generalised Linear Models (3rd year)
 - Research Methodology (4th year)
 - Multivariate Methods (4th year)

Software knowledge

- R, LaTeX, Excel, STATA, Statistica, SPSS

Peer-Reviewed Publications

The **framed** publications represent recent works that illustrate my current fields of research.

- van der Merwe, A.J., **von Maltitz, M.J.**, and Meyer, J.H. (2022). A Simulation Study to Compare Reference and Other Priors in the Case of a Standard Univariate Student *t*-Distribution. *South African Statistical Journal*, 56(2): 91-120. [Impact Factor 0.29, **Q4**, H-Index 10]
- Fabris-Rotelli, I., **von Maltitz, M.J.**, Das, S., Roberts, D., Smit, A., Correa, F.M., Maposa, D., Maribe, G., (2022). Development of an early career academic supervisor in Statistics: A discussion towards a guiding rubric. *ORiON*, 38(1): 29-51. ISSN: 0259-191X (print) / 2224-0004 (online). DOI: <http://dx.doi.org/10.5784/38-1-716> [Impact Factor 0.6 (2021)]
- Gbadegesin, J., Marais, L., **von Maltitz, M.**, Cloete, J., Lenka, M., Rani, K., Campbell, M., Denoon-Stevens, S., Venter, A., Koetaan, Q., & Pretorius, W. (2022). Student Housing Satisfaction at a South African University. *Journal of Student Affairs Research and Practice*, 59(5). ISSN: 1949-6591 (print) / 1949-6605 (online). DOI: <https://doi.org/10.1080/19496591.2022.2032111> [Q2 Education, H-Index 16]
- Esterhuyse, S., Sokolic, F., Redelinghuys, N., Avenant, M., Kijko, A., Glazewski, J., Plit, L., Kemp, M., Smit, S., Vos, A.T., **von Maltitz, M.J.** (2017). Vulnerability mapping as a tool to manage the environmental impacts of oil and gas extraction. *Royal Society Open Science*. DOI: <https://doi.org/10.1098/rsos.171044> [Impact Factor 2.515 (2018), **Q1** Multidisciplinary, H-Index 59]
- Nienkemper-Swanepoel, J., and **von Maltitz, M.J.** (2017). Investigating the Performance of a Variation of Multiple Correspondence Analysis for Multiple Imputation in Categorical Data Sets. *Journal of Classification* 34(3): 384-398. DOI: 10.1007/s00357-017-9238-6. [Impact factor 1.156 (2019), **Q2** Statistics, Probability and Uncertainty, H-Index 41]
- Strauss, T. and **von Maltitz, M.J.** (2017). Generalising Ward's Method for Use with Manhattan Distances. *PLoS ONE* 12(1): e0168288. doi: 10.1371/journal.pone.0168288 [Impact factor 3.240 (2020), **Q1** Multidisciplinary, H-Index 367]
- **von Maltitz, M.J.** and van der Merwe, A. J. (2012). An Application of Sequential Regression Multiple Imputation on Panel Data. *South African Journal of Economics* 80(1): 77-90. [Impact factor 0.685, **Q3** Economics and Econometrics, H-Index 34]
- Pretorius, J. and **von Maltitz, M.J.** (2010). Artistry in Education and Aesthetic Education: A Report of Arts-Based Staff Training and Learning. *Journal for New Generation Sciences* 8(3): 120-151. [Impact factor 0.829]
- Burger, R., Booysen, F., van der Berg, S., and **von Maltitz, M.** (2008). Marketing Wealth in a Poor African Country: Wealth Accumulation by Households in Ghana. In J.B. Davies (Ed), *Personal Wealth from a Global Perspective* (pp. 248-268). New York: Oxford University Press.
- Booysen, F., van der Berg, S., Burger, R., **von Maltitz, M.**, and du Rand, G. (2008). Using an Asset Index to Assess Trends in Poverty in Seven Sub-Saharan African Countries.

World Development 36(6): 1113-1130. [[Impact factor 5.287 \(2021\)](#), [Q1 Development, H-Index 192](#)]

Submitted Papers

- **von Maltitz, M.J.**, Fabris-Rotelli, I., Smit, A., Roberts, D., Das, S., Maposa, D. (2023). A guiding rubric for the early-career doctoral supervisor in Statistics. Submitted for the Proceedings of the 6th IAC Education Conference held in Oxford, UK, 24-26 March 2023.
- **von Maltitz, M.J.** (2023). Encouraging Significant Learning in Mathematical Statistics through Portfolios of Learning Evidence and Interview Assessments. Submitted for the Proceedings of the 6th IAC Education Conference held in Oxford, UK, 24-26 March 2023, and to the Journal of Statistics and Data Science Education.

Post-graduate student development

Completed supervision

- Supervisor for 17 honours (4th year)-level short dissertations and co-supervisor for one (2009-)
- Supervisor for 4 Masters-level short/medium dissertation, and co-supervisor for one (2008-)
- Supervisor for 3 completed Masters-level dissertation (2012-), and co-supervisor for one (2018-)
- Supervisor for 1 completed PhD and co-supervisor for one (2018-)

Current supervision

- Supervisor 3 Masters-level full dissertations, 2 PhDs.

Conferences, workshops, and invited talks

International conferences

- Attended 6 – 4 statistical (presented at 3), 1 education (presented at 1), 1 economic

National conferences

- Attended 17 – 15 statistical, 2 economic; presented a paper at 15, presented a workshop at 1.

Workshops

- Attended 8 national (presented papers at 7)

Invited Talks

- Presented 1 national seminar (University of Stellenbosch, 2013)
- Presented 1 international seminar (Survey Research Center at the Institute for Social Research, University of Michigan, 2015)

Scholarship of Learning and Teaching

- Presented at 1 international conference (2023), 4 UFS L&T conferences (2019-2022), 1 UFS L&T workshop, and the UFS Decolonisation Colloquium (2019)

References

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Please note that an extended curriculum vitae is available on request.