

# THOMAS JOEL FARRAR

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## PERSONAL PROFILE

I am an experienced statistician and academic. I have published and presented research spanning several disciplines, and hold qualifications in Statistics (Masters), Mathematics Integrated with Computer Applications (Honours) and Theology (Honours). I am a Canadian national with permanent residence status in South Africa.

## EDUCATION

2019 –, PhD candidate in Statistical Sciences, University of Western Cape, South Africa

2012 – 2017, Bachelor of Theology (Hons.), University of Chester, United Kingdom

2006 – 2007, Master of Mathematics in Statistics, University of Waterloo, Canada

Research paper title: *A two-sample nonparametric multivariate dispersion test based on data depth*

2002 – 2006, Bachelor of Science (Hons.), Mathematics integrated with Computer Applications, Brock University, Canada

## EMPLOYMENT

2018 – present      Senior Lecturer – Statistics  
Department of Mathematics and Physics  
Cape Peninsula University of Technology, Bellville, South Africa

2012 – 2018      Lecturer – Statistics  
Department of Mathematics and Physics  
Cape Peninsula University of Technology, Bellville, South Africa

- Responsible for teaching various statistics courses up to third-year level in a three-year Diploma programme
- Current co-supervisor of a Masters student in Biomedical Technology programme
- Project coordinator and technical report author for a biannual customer satisfaction survey for a major metropolitan bus company (2014, 2016, 2018)
- Coordinator for third-year students' Work Integrated Learning in-service projects in industry
- Participated in curriculum development for academic programmes

2008 – 2012      Monitoring and Evaluation Officer  
The Africaid Trust, Durban, South Africa

- Designed and implemented a monitoring and evaluation system for the WhizzKids United HIV/AIDS prevention, care, treatment and support programme
- Engaged with external partners to improve the quality of data and research on this programme

- Wrote technical reports for internal use (quality improvement) and for external stakeholders such as donors and partner organisations

## SKILLS

Analytical skills include proficiency with various statistical models and methods and proficiency in coding. Statistical software packages with which I am competent include R, SAS, SPSS, and Minitab. Programming languages with which I have past experience include R, MATLAB, Maple, C++, VisualBasic.NET, FORTRAN, Java, and HTML. I am particularly proficient at coding in R which is my preferred language for use in research. For academic writing I am able to code in LaTeX at an advanced level. I am also proficient with the Microsoft Office suite (Word, Excel and Powerpoint).

Interpersonal and communication skills include public speaking, teaching, academic and technical writing. Language competencies include English (native speaker), French (good working knowledge) and isiZulu (good working knowledge). Other professional skills include teamwork, time management, and project management.

## RESEARCH PUBLICATIONS: STATISTICS

Wai Kong Yuen, Thomas J. Farrar and Stuart M. Rothstein, "No-compromise reputation quantum Monte Carlo," *Journal of Physics A: Mathematical and Theoretical* 40 (2007): F639.

Shoja'eddin Chenouri, Christopher G. Small and Thomas J. Farrar, "Data depth-based nonparametric scale tests," *Canadian Journal of Statistics* 39 (2011): 356-369.

Louise Balfour, Thomas Farrar, Marcus McGilvray, Douglas Wilson, Giorgio A Tasca, Johanna N. Spaans, Catherine Mathews, Lungile Maziya, Siphosihle Khanyile, Tracy L. Dalgleish and William D. Cameron, "HIV prevention in action on the football field: the WhizzKids United program in South Africa," *AIDS and Behavior* 17 (2013): 2045-2052.

John Farmer, Thomas Farrar, and Nyika Mtemeri, *Customer Satisfaction Survey for Golden Arrow Bus Services: 12-16 May 2014*. Cape Town, South Africa. (2014: Commissioned by Golden Arrow Bus Services).

Thomas Farrar and Gbenga Abiodun, *Customer Satisfaction Survey for Golden Arrow Bus Services: 9-13 May 2016*. Cape Town, South Africa (2016: Commissioned by Golden Arrow Bus Services).

Raissa Andong Omores, Francois Wewers, Priscilla O. Ikhide, Thomas Farrar and Abdu-rahim Giwa, "Spatio-Temporal Distribution of Polycyclic Aromatic Hydrocarbons in Urban Soils in Cape Town, South Africa," *International Journal of Environmental Research* 11 (2017): 189-196.

Thomas Farrar, Gbenga Abiodun, and John Farmer, *Customer Satisfaction Survey for Golden Arrow Bus Services: 10-14 September 2018*. Cape Town, South Africa (2018: Commissioned by Golden Arrow Bus Services).

Thomas J. Farrar, "An Omnibus Test for Heteroscedasticity using Radial Stationarity and Data Depth," *Proceedings of the 60th Annual Conference of the South African Statistical Association* (2018): 1-8.

Thomas J. Farrar, Khanyisane A. Falake, Adriel Mebaley, Mandisi D. Moya, and Ivor I. Rudolph, "A Mall Intercept Survey on Religion and Worldview in the Cape Flats of Cape Town, South Africa," *Journal for the Study of Religion* 32(1) (2019): 1-30.

Thomas J. Farrar, Gbenga J. Abiodun, and John Farmer, "A 2018 Customer Satisfaction Survey with Users of a Subsidised Private Bus Service in Cape Town, South Africa," *Proceedings of the 38th Annual Southern African Transport Conference* (2019): forthcoming.

## **RESEARCH PUBLICATIONS: BIBLICAL STUDIES**

Thomas J. Farrar and Guy J. Williams, "Diabolical Data: A Critical Inventory of New Testament Satanology," *Journal for the Study of the New Testament* 39 (2016): 40-71.

Thomas J. Farrar and Guy J. Williams, "Talk of the Devil: Unpacking the language of New Testament Satanology," *Journal for the Study of the New Testament* 39 (2016): 72-96.

Thomas J. Farrar, "Today in Paradise? Ambiguous Adverb Attachment and the Meaning of Luke 23:43," *Neotestamentica* 51 (2017): 185-207.

Thomas J. Farrar, "Satanology and Demonology in the Apostolic Fathers: A Response to Jonathan Burke," *Svensk Exegetisk Årsbok* 83 (2018): 156-191.

Thomas J. Farrar, "The Intimate and Ultimate Adversary: Satanology in Early Second-Century Christian Literature," *Journal of Early Christian Studies* 26 (2018): 517-546.

Thomas J. Farrar, "New Testament Satanology and Leading Suprahuman Opponents in Second Temple Jewish Literature: A Religio-Historical Analysis," *Journal of Theological Studies* 70 (2019): 21-68.

## **CONFERENCE PRESENTATIONS**

Thomas J. Farrar, Gbenga J. Abiodun, and John Farmer, *A 2018 Customer Satisfaction Survey with Users of a Subsidised Private Bus Service in Cape Town, South Africa*, Southern African Transport Conference, Pretoria, South Africa, 8-11 July 2019.

Thomas J. Farrar, *An Omnibus Test for Heteroscedasticity using Radial Stationarity and Data Depth*, South African Statistical Association Conference, Johannesburg, South Africa, 26-29 November 2018.

Thomas J. Farrar, *When is the ideal time to play the South African National Lottery's LOTTO Game?* South African Statistical Association Conference, Johannesburg, South Africa, 26-29 November 2018.

Thomas J. Farrar, *Integration of a Soccer-Based HIV Prevention Programme into Intermediate Phase Life Orientation Curriculum*, SA Basic Education Conference, Durban, South Africa, 2-4 April 2012.

Thomas J. Farrar, *Quantitative Methods for Evaluating Behavioural HIV Prevention*, 16th International AIDS and STIs in Africa Conference, Addis Ababa, Ethiopia, 4-8 December 2011.

Thomas J. Farrar, *On the Ball: Evaluating the WhizzKids United soccer-based youth HIV prevention programme in northern eThekweni*, 6th Social Aspects of HIV & AIDS Research Alliance Conference, Port Elizabeth, South Africa, 29 November-2 December 2011.

Thomas J. Farrar, *A Mixed Gender Football League for Adolescents in Edendale, South Africa to Promote Gender Equality and Increase Uptake of HCT*, 5th SA AIDS Conference, Durban, South Africa, 7-10 June 2011.

Thomas J. Farrar, *Inspired Play: A Case Study of a Soccer-Based HIV Prevention Programme Motivated by the 2010 FIFA World Cup*, International Sport and Development Conference—Beyond 2010, University of the Western Cape, 1-3 September 2010.

Thomas J. Farrar, *Winning tactics for 2010: using soccer to facilitate behavioural HIV prevention for youth with a focus on gender equality*, XVI South African Sociological Association Congress, University of Fort Hare, 13-16 June 2010.

Thomas Farrar, Marcus McGilvray, Catherine Campbell, and Tomas Campbell, *WhizzKids United and HIV Prevention for Adolescents: Utilising the Power of Football for HIV Prevention in KwaZulu-Natal*, 9th International AIDS Impact Conference, Gaborone, Botswana, 22-25 September 2009.

## **CURRENT AND FUTURE RESEARCH INTERESTS**

I am interested in heteroskedasticity diagnostics in linear regression models, applications of depth functions in statistical hypothesis testing, computational statistics, and in applications of text mining in biblical studies.

## **REFEREES**

Mr. John Farmer, Head of Department  
Department of Mathematics and Physics, Faculty of Applied Sciences  
Cape Peninsula University of Technology, Symphony Way, Bellville, 7530, South Africa  
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Relationship: line manager

Dr. Guy J. Williams, Head of Upper School  
Wellington College, Duke's Ride, Crowthorne, Berkshire, RG45 7PU, United Kingdom  
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Relationship: biblical studies research co-author

Mr. John Dammert, Corporate Affairs Executive  
Golden Arrow Bus Services Ltd., 103 Bofors Circle, Epping Industria, 8000, South Africa  
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Relationship: Liaison at Golden Arrow Bus Services concerning a biannual customer satisfaction survey that I coordinated in 2014, 2016, and 2018.

Prof. Shoja'eddin Chenouri, Associate Professor  
Department of Statistics and Actuarial Science, Faculty of Mathematics  
University of Waterloo  
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Relationship: Masters research essay supervisor