



Biography of Trevor Stewart, CA(SA), PhD

Trevor Stewart is a retired Deloitte Principal. He joined the audit practice in the Johannesburg office of Deloitte, worked in London on major audit clients, and returned to South Africa where he continued to serve audit clients while starting the firm's first computer audit practice. He was transferred to New York, where he established and led Deloitte's global Audit Technology Research and Development Center in Princeton, NJ, leading the development and implementation of the firm's integrated audit software platform with teams located in Princeton, Amsterdam, and London.

Working with Kenneth W. Stringer, Deloitte's then senior technical partner, Trevor pioneered the development of regression analysis as technique for analytical procedures in auditing, including development of the software system known as STAR (now Reveal). He and Stringer co-authored a book on the subject published by Wiley.

Trevor was a member of the task force that wrote the AICPA Audit Sampling Guide (2008 edition) and wrote a companion Technical Notes paper detailing the mathematics including the basis for the numerous tables in the guide. Also for the AICPA, Trevor served on the task force and contributed sections to the AICPA Guide to Audit Data Analytics (2017) and the AICPA booklet on Audit Analytics and Continuous Audit (2015).

For a number of years preceding his retirement, Trevor was a member of Deloitte's international Technical Policies and Methodologies Group. After retiring from the firm, Trevor completed a PhD at VU University Amsterdam with a dissertation on Bayesian audit assurance, with a specific focus on solving the component materiality problem in group audits. He and Professor Bill Kinney used this work to co-author a paper on component materiality in *The Accounting Review* (March 2013). Trevor has carried his work on Bayesian statistics into sampling and other fields.

Trevor is a Chartered Accountant (South African CPA), has a BSc in mathematics from the University of Cape Town and a PhD from VU University Amsterdam.

Trevor lives in Manhattan with his wife Margaret.

Selected Publications

Books

2012. “A Bayesian Audit Assurance Model with Application to the Component Materiality Problem in Group Audits”. PhD dissertation, VU University Amsterdam. Available at <http://dare.uvu.vu.nl/handle/1871/39813>.

1986. Kenneth W. Stringer and Trevor R. Stewart, *Statistical Techniques for Analytical Review in Auditing*, Wiley, New York, 1986. (Second English and first Japanese edition, 1996.)

Papers and articles

2015. Min Cao, Roman Chychyla, and Trevor Stewart, “Big Data Analytics in Financial Statement Audits”. *Accounting Horizons*.

2015. “Data Analytics for Financial Statement Audits”. Published in AICPA’s *Audit Analytics and Continuous Audit, Looking Toward the Future*.

2015. Paul Byrnes, Tom Criste, Trevor Stewart [principal author], and Miklos Vasarhelyi “Re-imagining Auditing in a Wired World”. Published in AICPA’s *Audit Analytics and Continuous Audit, Looking Toward the Future*.

2013. Trevor R. Stewart and William R. Kinney, Jr., “Group Audits, Group-Level Controls, and Component Materiality: How Much Auditing is Enough?”. *The Accounting Review*. March.

2010. Editor, “The State and Future of Auditing”, *International Journal of Disclosure and Governance*, special issue, a collaborative effort with the *Center for Audit Quality*.

2008. “Technical notes on the *AICPA Audit Guide, Audit Sampling*”. New York: AICPA (Updated 2012). Available at: https://www.aicpa.org/Publications/AccountingAuditing/KeyTopics/DownloadableDocuments/Sampling_Guide_Technical_Notes.pdf.

2007. Trevor Stewart, Leo Strijbosch, Hans Moors, and Paul van Batenburg “A simple approximation to the convolution of gamma distributions”. *Discussion Paper, No. 2007-70. Tilburg University*. Available at: <https://pure.uvt.nl/portal/en/publications/search.html?search=302872>.

2007. “Quantifying materiality for interim financial reporting”. *Unpublished discussion paper*.