

Kevin Kotzé

University Education

2014	University of Stellenbosch: PhD in Commerce (Economics)
2006	University of Stellenbosch: Masters in Commerce (Economics)
2003	University of South Africa: Bachelor of Commerce [Honours] (Economics)
1996	University of Natal: Bachelor of Commerce (Economics, Finance & Management)

Professional Development

2019	Barcelona Data Science Summer School (Deep Learning: Alexandros Karatzoglou & Ilias Leontiadis) - Universitat Pompeu Fabra
2019	Barcelona Data Science Summer School (Machine Learning in Social Sciences: Stephen Hansen, Omiros Papaspiliopoulos & David Rossell) - Universitat Pompeu Fabra
2016	Barcelona Macroeconomics Summer School (Recent Developments in Forecasting: Barbara Rossi) - Universitat Pompeu Fabra
2011	Dynare Summer School (Dynamic Stochastic General Equilibrium Models) - Banque de France
2009	Barcelona Macroeconomics Summer School (DSGE Models, Methods and Problems: Fabio Canova) - Universitat Pompeu Fabra
2009	Economic Research Southern Africa (Assessing Future Economic Developments and Policy Evaluation using Aggregate Dynamic Models, Methods and Applications: Alexander Ludwig) - University of Witwatersrand
2009	Economic Research Southern Africa (Likelihood Methods in Financial Econometrics: Stan Hurn) - University of Stellenbosch
2008	Economic Research Southern Africa (Time Series Workshop: Katarina Juselius) - University of Cape Town
2005	Erasmus Universiteit Rotterdam: M.Sc. (Econometrics) - completed several econometrics courses while on an exchange programme
2002	Chartered Financial Analyst Institute: Completed Level I of the CFA programme
2002	Association of Collective Investment Schemes: Level I and Level II
1999	South African Institute of Financial Markets: Registered Person (Equity, Fixed Interest, & Futures Markets)
1999	Securities Institute (UK): International Capital Markets Qualification
1998	Chartered Institute of Bankers (UK): Certificate for Financial Advisers
1998	Chartered Insurance Institute (UK): Life and Pensions Foundation Certificate

Research Interests

- Macroeconomics, Monetary Economics, International Finance, Time Series Analysis, Machine Learning & Econometric Modelling.

Working papers

- 2017 “Monetary Policy, Financial Frictions and Structural Changes: A Markov-Switching DSGE approach”. *School of Economics Macroeconomic Discussion Paper Series*, Number 2017-05, with Francis Leni Anguyo & Rangan Gupta.
- 2017 “Fiscal Policy Uncertainty and Economic Activity in South Africa”, *School of Economics Macroeconomic Discussion Paper Series*, Number 2017-02.

Peer Review Publications

- 2019 “Forecasting with second-order approximations and Markov-Switching DSGE models”. *Computational Economics*, forthcoming, with Sergey Ivashchenko, Semih Emre Çekin & Rangan Gupta.
- 2019 “Monetary Policy and Financial Frictions in a Small Open-Economy Model for Uganda”, *Empirical Economics*, forthcoming, with Francis Leni Anguyo & Rangan Gupta.
- 2019 “Inflation Dynamics in Uganda: A Quantile Regression Approach”. *Macroeconomics and Finance in Emerging Market Economies*, forthcoming, with Francis Leni Anguyo & Rangan Gupta.
- 2017 “Forecasting South African Macroeconomic Variables with a Markov-Switching Small Open-Economy Dynamic Stochastic General Equilibrium Model”, *Empirical Economics*, Vol. 53(1), pp. 117-135, with Mehmet Balcilar & Rangan Gupta.
- 2017 “The Role of Oil Prices in the Forecasts of South African Interest Rates: A Bayesian Approach”, *Energy Economics*, Vol. 61, pp. 270-278, with Rangan Gupta.
- 2015 “Measuring Core Inflation in South Africa”, *South African Journal of Economics*, Vol. 83, No. 4, pp. 527-548, with Stan Du Plessis & Gideon Du Rand.
- 2015 “Forecasting Macroeconomic Data for an Emerging Market with a Nonlinear DSGE Model”, *Economic Modelling*, Vol. 44, pp. 215-228, with Mehmet Balcilar & Rangan Gupta.
- 2014 “Spillovers in Exchange Rates and the Effects of Global Shocks on Emerging Market Currencies”, *South African Journal of Economics*, Vol. 82, No. 2, pp. 209-238, with Haakon Kavli.
- 2012 “Trends and Structural Changes in South African Macroeconomic Volatility”, *ERSA working paper*, Number 297, with Stan Du Plessis.
- 2011 “Forecasting Performance of an Estimated DSGE model for the South African Economy”, *South African Journal of Economics*, Vol. 79, No. 1, pp. 50-67, with Sami Alpanda & Geoffrey Woglom.
- 2010 “The Role of the Exchange Rate in a New Keynesian DSGE model for the South African Economy”, *South African Journal of Economics*, Vol. 78, No. 2, pp. 170-191, with Sami Alpanda & Geoffrey Woglom.
- 2010 “Should Central Banks of Small Open Economies Respond to Exchange Rate Fluctuations? The Case of South Africa”, *ERSA working paper*, Number 174, with Sami Alpanda & Geoffrey Woglom.
- 2010 “The Great Moderation of the South African Business Cycle”, *Economic History of Developing Regions*, Vol. 25, No. 1, pp. 105-125, with Stan Du Plessis.

Teaching Experience

2019	University of Cape Town: Time Series Analysis (Masters & PhD), 1/2 Macroeconomic Modelling & Policy Analysis (Masters & PhD) and International Finance (Honours).
2018	University of Cape Town: Time Series Analysis (Masters & PhD), 1/2 Macroeconomic Modelling & Policy Analysis (Masters & PhD) and International Finance (Honours).
2017	University of Cape Town: Time Series Analysis (Masters & PhD), 2/3 Advanced Macroeconomics (Masters & PhD) and International Finance (Honours).
2016	University of Cape Town: Time Series Analysis (Masters & PhD), 2/3 Advanced Macroeconomics (Masters & PhD) and International Finance (Honours).
2015	University of Cape Town: Time Series Analysis (Masters & PhD), 2/3 Advanced Macroeconomics (Masters & PhD) and 1/2 International Finance (Honours).
2014	University of Cape Town: Time Series Analysis (Masters & PhD), 2/3 Advanced Macroeconomics (Masters & PhD) and 1/2 International Finance (Honours).
2013	University of Cape Town: Time Series Analysis (Masters & PhD), 2/3 Advanced Macroeconomics (Masters & PhD) and 1/2 International Finance (Honours).
2012	University of Cape Town: Time Series Analysis (Masters & PhD), 2/3 Advanced Macroeconomics (Masters & PhD) and 1/2 International Finance (Honours).
2011	University of Cape Town: Time Series Analysis (Masters & PhD) and 1/2 International Finance (Honours).
2010	University of Cape Town: Time Series Analysis (Masters & PhD) and 1/2 International Finance (Honours).
2009	University of Cape Town: Time Series Analysis (Masters & PhD)
2009	University of Stellenbosch: Advanced Econometrics (Postgraduate)
2008	University of Stellenbosch: Advanced Econometrics (Postgraduate)
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2006	University of Stellenbosch: Advanced Econometrics (Postgraduate)
2005	University of Stellenbosch: Advanced Econometrics (Postgraduate)

Course Development

2019	University of Cape Town: <i>Macroeconomic Modelling in Developing Countries</i> . Intensive six-day short course that specifically caters for researchers from African policy-making institutions.
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International Finance online course monograph and slides available at:

- [<https://www.economodel.com/international-finance>]

Time Series Analysis online course monograph and slides available at:

- [<https://www.economodel.com/time-series-analysis>]

Macroeconomic Modelling & Policy Analysis online course monograph and slides:

- [<https://www.economodel.com/macroeconomics>]

Thesis Supervision

- 4 PhD students (2 completed, 1 about to submit and 1 currently working on his dissertation)
- 14 Masters students (all completed)
- 4 Honours students (all completed)

Management, Leadership and Administration

Commerce Faculty (UCT):

2019	Student Emergency Crisis Committee
2011–2012	Programme convener: MPhil (Mathematical Finance)

School of Economics (UCT):

2017–..	Convenor of the Old Mutual Budget Speech Competition
2016–2017	AERC comprehensive examinations committee
2016–2017	AERC curriculum evaluation committee
2016–..	Administrator for School of Economics Macroeconomic Discussion Paper Series
2016–..	Postgraduate committee (Macroeconomics and Financial Economics)
2011–..	Undergraduate concessions committee
2011–..	Undergraduate student advisor
2010–..	Quantitative methods and econometrics committee
2010–..	Macroeconomics committee

Other:

2013	Referee: Economic Society of South Africa conference
2011	Referee: Economic Society of South Africa conference

Served as external examiner for the following courses: Macroeconomic Theory [Masters] (University of Pretoria), Open-Economy Macroeconomics [Masters] (University of Pretoria), Dynamic Economic Modeling [Masters] (University of Stellenbosch), Financial Economics [Masters] (University of Stellenbosch), Financial Econometrics [Honours] (University of Stellenbosch), Macroeconomics [Honours] (University of Stellenbosch), Advanced Econometrics [Masters] (University of Stellenbosch), Monetary Economics [Masters] (University of Stellenbosch), Asset Pricing [Masters] (University of Pretoria), Macroeconomics [Honours] (University of Western Cape), International Finance [Honours] (University of Western Cape), Macroeconomics [Masters] (University of Western Cape)

Served as referee for Energy, Energy Economics, Emerging Markets Finance & Trade, Economic Modelling, International Journal of Forecasting, South African Journal of Economics, Studies in Economics and Econometrics, South African Journal of Economic and Management Studies, African Scientific, & Economic Research Southern Africa.

Social Responsibility

2019	South African Reserve Bank fellowship to construct “Big-data machine learning forecasting models for predicting monthly inflation” (with Neil Rankin and Rulof Burger).
2007–2008	Econex – statistical modelling and data analysis that was used for expert testimony at the Trade & Competition Commission relating to one of the longest and largest matters that had been heard (JTI vs BATSA).
2005–2011	Ipos (previously Synovate Aztec) - Statistical modelling development and research in the field of consumer behaviour and marketing research.
2004	Department of Trade & Industry - Research report on capacity constraints in African countries (with Ronelle Burger and Rulof Burger).
2002–..	Oasis Group Holdings – Economic and financial market research for a group of financial services companies.

Corporate Experience

1999–2002	Oasis Group Holdings - Director of Oasis Crescent Management Company (South Africa) and Oasis Global Management Company (Guernsey) [Responsibility: Head of Collective Investment Schemes (Mutual Funds) in South Africa and Guernsey]
1997–1998	R. P. Hodson (Financial Services) Ltd. UK (now The Oval Group) - Senior Investment Officer Assistant
1996–1997	R. P. Hodson (Financial Services) Ltd. UK (now The Oval Group) - Administrative Assistant

Computing Languages

- R, Python, Julia, Matlab, Gauss, C++, Fortran, Cuda, $\text{\LaTeX}$, JavaScript, Html, CSS, Yaml

Other Interests

Triathlon (Ironman Africa Championship: 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2017, 2018, & 2019), Trail running (+200km Mustang Trail Run [Nepal] 2015, +60km Giants Cup Trail Run 2014, +100km Amatola Trail Run 2004 [7th] 2005 [4th]), and most other sport.

October 2019