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 "Fiscal Policy Uncertainty and Economic Activity in South Africa", *School of Economics Macroeconomic Discussion Paper Series*, Number 2017-02.

Peer Review Publications

2020	"Forecasting with second-order approximations and Markov-Switching DSGE models". <i>Computational Economics</i> , forthcoming, with Sergey Ivashchenko, Semih Emre Çekin & Rangan Gupta.
2020	"Monetary Policy and Financial Frictions in a Small Open-Economy Model for Uganda", Empirical Economics, forthcoming, with Francis Leni Anguyo & Rangan Gupta.
2020	"Monetary Policy, Financial Frictions and Structural Changes: A Markov-Switching DSGE approach". <i>Economic Research</i> , (2020), Vol. 33, No. 1, pp. 1538-1561, with Francis Leni Anguyo & Rangan Gupta.
2020	"Inflation Dynamics in Uganda: A Quantile Regression Approach". <i>Macroeconomics and Finance in Emerging Market Economies</i> , (2020), , Vol. 13, No. 2, pp. 161-187, with Francis Leni Anguyo & Rangan Gupta.
2017	"Forecasting South African Macroeconomic Variables with a Markov-Switching Small Open-Economy Dynamic Stochastic General Equilibrium Model", <i>Empirical Economics</i> , 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", <i>Energy Economics</i> , Vol. 61, pp. 270-278, with Rangan Gupta.
2015	"Measuring Core Inflation in South Africa", <i>South African Journal of Economics</i> , 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", <i>Economic Modelling</i> , 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", <i>South African Journal of Economics</i> , Vol. 82, No. 2, pp. 209-238, with Haakon Kavli.
2012	"Trends and Structural Changes in South African Macroeconomic Volatility", <i>ERSA working paper</i> , Number 297, with Stan Du Plessis.
2011	"Forecasting Performance of an Estimated DSGE model for the South African Economy", <i>South African Journal of Economics</i> , 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", <i>South African Journal of Economics</i> , 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", <i>ERSA working paper</i> , Number 174, with Sami Alpanda & Geoffrey Woglom.
2010	"The Great Moderation of the South African Business Cycle", <i>Economic History of Developing Regions</i> , Vol. 25, No. 1, pp. 105-125, with Stan Du Plessis.

Teaching Experience

2020	$\label{lem:conomic} University of Cape Town: Time Series Analysis (Masters \& PhD), 1/2 Advanced Macroeconomic Theory (Masters \& PhD) and International Finance (Honours).$
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	$\label{lem:conomics} University of Cape Town: Time Series Analysis (Masters \& PhD), 2/3 \ Advanced Macroeconomics (Masters \& PhD) and International Finance (Honours).$
2015	$\label{lem:conomics} University of Cape Town: Time Series Analysis (Masters \& PhD), 2/3 \ Advanced Macroeconomics (Masters \& PhD) and 1/2 \ International Finance (Honours).$
2014	$\label{lem:conomics} University of Cape Town: Time Series Analysis (Masters \& PhD), 2/3 Advanced Macroeconomics (Masters \& PhD) and 1/2 International Finance (Honours).$
2013	$\label{lem:conomics} University of Cape Town: Time Series Analysis (Masters \& PhD), 2/3 \ Advanced Macroeconomics (Masters \& PhD) and 1/2 \ International Finance (Honours).$
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)
2007	University of Stellenbosch: Advanced Econometrics (Postgraduate)
2006	University of Stellenbosch: Advanced Econometrics (Postgraduate)
2005	University of Stellenbosch: Advanced Econometrics (Postgraduate)

Course Development

2018

University of Cape Town: *Macroeconomic Modelling and Machine Learning in Developing Countries*. Intensive six-day short course that specifically caters for researchers from African policy-making institutions.

University of Cape Town: *Macroeconomic Modelling in Developing Countries*. Intensive six-day short course that specifically caters for researchers from African policymaking institutions.

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):

2020–.. Ad-hominem working group

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 Modelling [Masters] (University of Stellenbosch), Financial Economics [Masters] (University of Stellenbosch), Financial Econometrics [Honours] (University of Stellenbosch), Macroeconomics [Honours] (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: Computational Economics, Energy, Energy Economics, Emerging Markets Finance & Trade, Empirical Economics, 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

2019-2020	South African Reserve Bank fellowship to construct "Big-data machine learning fore-casting 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

2018–	Predictive Insights - Executive Director
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(FinancialServices)Ltd.UK(nowTheOvalGroup)-SeniorInvestmentOfficerAssistant
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, 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.

June 2020