

**MONDAY: 05 NOVEMBER 2012**

<b>MONDAY: 05 NOVEMBER 2012</b>		
	<b>Registration</b>	
	<b>Registration venue: Madibaz, South campus</b>	
08h00 - 09h00	Venue: Lab 5	Venue: Lab 4
09h00 - 11h00	WORKSHOP 1: Performance Measurement for Enterprises: An introduction for statisticians	WORKSHOP 2: Functional Data Analysis Using R
	Presenter: Prof Nicholas Fisher	Presenters: Prof Bhaswati Ganguli and Prof Agik Sen-Roy
	Session 1	Session 1
11h00 - 11h30	<b>Tea</b>	
	Venue: Madibaz	
11h30 - 13h00	WORKSHOP 1	WORKSHOP 2
	Session 2	Session 2
13h00 - 14h00	<b>Lunch</b>	
	Venue: Madibaz	
14h00 - 15h30	WORKSHOP 1	WORKSHOP 2
	Session 3	Session 3
15h30 - 16h00	<b>Tea</b>	
	Venue: Madibaz	
16h00 - 17h00	WORKSHOP 1	WORKSHOP 2
	Session 4	Session 4
17h30 for 18h00	<b>Meet and Greet</b>	
	Venue: Rendevouz, South Campus	

**TUESDAY: 06 NOVEMBER 2012**

<b>Registration</b>			
<b>Registration venue: Madibaz, South campus</b>			
08h00 - 09h00	Venue: Lab 4	Venue: Madibaz, Umvelani	Venue: Lab 5
09h00 - 11h00	WORKSHOP 3: Nonparametric Methods with Instrumental Variables	WORKSHOP 4: SAS Workshop	
	Presenter: Prof Jeffrey Racine	Presenter: Mr Goran Dragosavac	
	Session 1	Session 1	
<b>Tea</b>			
Venue: Madibaz			
11h30 - 13h00	WORKSHOP 3	WORKSHOP 4	
	Session 2	Session 2	
<b>Lunch</b>			
Venue: Madibaz			
14h00 - 15h30	WORKSHOP 3	WORKSHOP 4	WORKSHOP 5: Education Committee
			Presenters: Prof Delia North and Ms Hannah Gerber
	Session 3	Session 3	Session 1
<b>Tea</b>			
Venue: Madibaz			
16h00 - 17h00	WORKSHOP 3	WORKSHOP 4	WORKSHOP 5
	Session 4	Session 4	Session 2
<b>SASA Exec meeting</b>			
Venue: Madibaz, Umvelani			
<b>Meet and Greet</b>			
Venue: Rendevouz, South campus			
17h15 - 18h00			
17h30 for 18h00			

**WEDNESDAY: 07 NOVEMBER 2012**

<b>Registration</b>					
Venue: North campus, Auditorium Foyer					
<b>Opening Ceremony</b>					
Venue: North campus, Auditorium					
07h30 - 14h30	09h15 - 09h20	MC: SASA President: Dr Gary Sharp			
	09h20 - 09h30	Welcoming: NMMU Dean of Science: Prof Andrew Leitch			
	09h30 - 10h00	Presidential address: SASA President: Dr Gary Sharp			
	10h00 - 10h30	Awards: SAS awards for best honours projects: Ms Hannah Gerber (hand over by Mr Murray de Villiers)			
		Awards: STATSSA awards for best postgraduate papers: Prof Delia North			
		Awards: ICCSSA award: Dr Pravesh Debba			
		Award: Sichel medal: Dr Roelof Coetzer (on behalf of Prof Paul Fatti).			
	10h30 - 10h40	Awards: Fellowship and Honorary Members: Dr Pravesh Debba			
10h40 - 10h50	Platinum Sponsor Address: SAS, Mr Murray de Villiers				
10h40 - 10h50	Survey analysis: Former President of SASA: Dr Herrie van Rooy				
<b>Tea</b>					
Venue: North campus, Auditorium Foyer					
<b>Plenary Session</b>					
Venue: North campus, Auditorium					
11h30 - 12h25	11h30 - 12h25	Guest and Title	Prof Jeffrey Racine: Kernel Smoothing of Categorical Covariates: Theory and Application		
		Chair	Dr Gary Sharp		
<b>Lunch</b>					
Venue: Madibaz					
<b>Parallel Sessions</b>					
	<b>Stream</b>	General and Distribution theory	Analytics Competition	Biometry	Young statistician
	<b>Chair</b>	Dr Schalk Human	Dr Leonard Santana	Dr Kerry Leask	Mr Warren Brettenny
	<b>Venue</b>	5 0003	5 0005	5 0007	5 0002
14h00 - 14h15	Forecasting South African Aggregate Retail Sales Using Univariate Linear, Nonlinear, And Nonparametric Time Series Models		Bayesian Estimators Of The Location Parameter Of The Normal Distribution With Unknown Variance	An Overview Of Stepped Wedge Designs	The Discrete Pulse Transform For Images
	Goodness C. Aye,, Mehmet Balcilar and Rangan Gupta		Janet van Niekerk and Andriette Bekker	Kerry Leask	Inger Fabris-Rotelli
14h20 - 14h35	Comparing Predictions From Combined Nonparametric And Parametric Models For Estimating Fco2 In The Southern Ocean		Youth Of South Africa: Comparing Those In Education, Training And Employment With Those Who Are Socially Excluded	Spatial Variation In Under-Five Mortality In South Africa	Detection And Down-Weighting Of Outliers In Non-Normal Clustered Data
	Wesley Pretorius and Sonali Das		Michael Medupi	Sulaiman Salau	Tinashe Chatora

14h40 - 14h55	Comparison Of Test Estimators For A Location Parameter From A Normal Model Under BLINEX Loss With Special Focus On Preliminary Test Estimation	Modelling Track Records Using Compound Distributions	Multi-step Approaches To Consumer Segmentation	Statistical Techniques To Calculate Loss Given Default	
	Judy Coetsee , Prof. A Bekker and Dr. S.Millard	Erin Hanly, David Friskin and Gary Sharp	Marieta van der Rijst, Tormod Næs and Nina Muller	Jaco van Tonder	
15h00 - 15h15	The Description Of The Extended Bimatrix Variate Beta Type II Distribution	Efficiency Of The MCMC With EM Algorithm As A Multiple Imputation Method	Designs for Field Trials with Unreplicated Treatments	On Systems With Gradual Repair	
	Andriëtte Bekker, Kotie Roux, Karien Adamski and Schalk Human	Huibrecht Elizabeth Maartens	Linda M. Haines	Zani Ludick	
15h20 - 15h35	Origin And Application Of A Noncentral Generalized Multivariate Beta Type II Distribution	Diagnostic Tests For The Distribution Of Random Effects	Optimal Designs For Two-Colour Microarray Using Linear Mixed Models	Common Components To Construct Biplots For Longitudinal Data	
	Schalk Human, Karien Adamski, Andriette Bekker, Kotie Roux	Leonard Santana	Legesse K. Debushe and Dibaba B. Gemechu	Darryn Williams and Sugnet Lubbe	
15h45 - 16h15	<b>Tea</b>				
	Venue: Madibaz				
	<b>Parallel Sessions</b>				
16h15 - 17h15	<b>Stream</b>	Applied Statistics	Analytics Competition	Finance	Energy/Applied stats
	<b>Chair</b>	Ms Marien Graham	Dr Michael von Maltitz	Dr Franck Adekambi	Dr. Morné Rowan Sjölander
	<b>Venue</b>	5 0003	5 0005	5 0007	5 0002
16h15 - 16h30	A Comparison Of Three Phase I Control Charts	A Hierarchical Bayesian Model: Combining The Generalized Gamma And Generalized t-Distributions	Health Care Insurance Pricing	Forecastability, Stability and Cost of Forecast Error	
	Margarethe Coelho	Stefan S Britz and Prof DJ de Waal	Franck Adekambi and Salha Mamane	Senzo Myeni	
16h35 - 16h50	Nonparametric CUSUM And EWMA Control Charts For Monitoring Unknown Location Based On The Exceedance Statistic	Introducing Skewness into a Robust Model for Sequential Regression Multiple Imputation	Analyzing Financial Time Series With Varying Volatility And Extreme Clusters	Generating Guidance On Public Preferences For The Location Of Wind Turbine Farms In The Eastern Cap	
	Mrs. Marien.A. Graham	Michael Johan von Maltitz	Frans F. Koning and Prof. D. de Waal	Jessica Hosking, Mario du Preez and Gary Sharp	
16h55 - 17h10	Improved Probability Limits Design for Attribute Data	South African Pension Funds: A Review Of Construction Strategies And Empirical Evidence	Model Risk Management	Further Techniques In Estimating Temperature In An Area In Which Temperature Is No Longer Measured	
	Sandile Shongwe	JD van Heerden	Carel van der Merwe	Dr. Morné Rowan Sjölander	
16h15 - 17h 15	<b>ICSSA Board meeting</b>				
	Venue: 5 0001				

<i>17h30 - 18h30</i>	<b>SASA AGM</b>
	Venue: 5 0007
<i>19h15 for 19h30</i>	<b>Welcoming Function</b>
	Venue: Humewood Golf Club

**THURSDAY: 08 NOVEMBER 2012**

<b>Young Statisticians Breakfast</b>					
Venue: Blue Waters Café, Marine drive, Hobie Beach					
<b>Registration</b>					
Venue: Foyer, building 5					
<b>Parallel Sessions</b>					
	<b>Stream</b>	Biostats	Analytics Competition	Industrial statistics	General/Applied stats
	<b>Chair</b>	Dr Legesse Debusho	Mr Caston Sigauke	Dr Roelof Coetzer	Mr Mark Nasila
	<b>Venue</b>	5 0003	5 0005	5 0007	5 0002
09h10 - 09h25		Modelling Of Correlated Soil Animals Count Data	Measures Of Income Inequality	Accounting For Covariance Structure Changes Over Time In Multivariate Statistical Process Monitoring	Crime Mapping In Ekurhuleni
		Legesse Kassa Debusho and Gudeta W. Sileshi	Rarang Phillemon Dikgale, MR Makwela and Prof A Tessera	André G Mostert and Gerhard Koekemoer	Elsabe Smit
09h30 - 09h45		Non-Linear Regression Models For The Characterisation Of The Early Bactericidal Activity (EBA) Of Tuberculosis Drugs	Hawkes Processes And Their Financial Applications	Multivariate Statistical Process Monitoring By Combining PLS And PCA	One-way ANOVA with unequal variances
		Divan Burger and Robert Schall	Brendon M. Lapham and Iain L. MacDonald	Gerhard Koekemoer and Roelof LJ Coetzer	Henri Moolman
09h50 - 10h05		Latent Class Analysis in Substance use Research	Volatility Modelling Of Heteroskedastic Shares Using Generalised Pareto Distribution	Multivariate Economic Statistical Process Control	The Median Odds Ratio (MOR) for Interpreting Random Effects of a Multi-Level Logistic Regression Model
		Esmè Jordaan and Petal Petersen	Rhoda Makhwiting, Caston Sigauke, Maseka Lesaoana	Precious Mudavanhu and Pieta van Deventer	Trishanta Padayachee
10h10 - 10h25		SAS Sponsor	Volatility Modelling of the Producer Price Index in South Africa	Multivariate Statistical Process Evaluation By Procrustus Analysis For Complex Chemical Processes	Multinomial Logistic Regression to Predict a Merchant's Experience of Card Fraud Incidents
		Goran Dragosavac	Selaelo Lynette Ramare and Caston Sigauke	Roelof LJ Coetzer, Ruan F Rossouw and Niel le Roux	Mark Nasila and Gary Sharp
<b>Tea</b>					
Venue: Madibaz					
<b>Plenary Sessions</b>					
Venue: 5 0007					
11h00 - 11h55	11h00 - 11h55	Guest and Title	Prof Nicholas Fisher: Statistics, Performance Measurement and Corporate Collapses. Opportunities for statisticians to have an impact.		
		Chair	Dr Roelof Coetzer		
<b>Parallel Session</b>					
	<b>Stream</b>	Applied Statistics	Analytics Competition	Classification	Econometric application
	<b>Chair</b>	Prof Jacky Galpin	Prof Sugnet Lubbe	Mr Mark Dowdswell	Ms Debbie Lee
	<b>Venue</b>	5 0002	5 0005	5 0007	5 0003

12h00 - 12h15	Curable Shock Processes	Partial Least Squares Regression Biplots	High Dimensional (Penalised) Discriminant Analysis	Willingness-To-Pay For Improved Fish Stock Size And Levels In The Sundays River Estuary, Eastern Cape, South Africa: A Choice Experiment	
	Maxim Finkelstein	O.V.F. Oyedele, S. Lubbe and N.J. Le Roux	Mark Dowdeswell, Tea Jashashvili, Kristian Carlson, Damiano Marchi, Robert Nshimirimana	Debbie Lee	
12h20 - 12h35	Multivariate Spacings, Generalized Quantiles and Level Sets Quantiles	Biplots For Investigating Differential Living Conditions Between South African Racial Groups	Variable Selection And Binary Classification For Infrared Spectroscopy Data	It Rained But I Have No Rainfall Data!	
	David Mason	Tsiresy Pierre Bernard and Sugnet Lubbe	Nelmarie Louw, Sarel Steel and Hélène Nieuwoudt	Nothabo Ndebele	
12h40 - 12h55	Automatic Interaction Detection For Longitudinal Data	Aspects Of Multi-Label Classification	Biplots Constructed From Distance Matrices	A linear model for valuating preferences of freshwater inflows into forty selected estuaries along the South African coastline	
	Jacky Galpin	Ivona Contardo-Berning and Prof. Sarel Steel	Niel Le Roux, Sugnet Lubbe and John Gower	Melnick Smith, Johan Hugo and Gary Sharp	
13h00 - 14h00	<b>Lunch</b>				
	Venue: Madibaz				
14h00 - 16h00	<b>Parallel Sessions</b>				
	<b>Stream</b>	<b>Education</b>	<b>Analytics Competition</b>	<b>Bayesian</b>	<b>Biostats</b>
	<b>Chair</b>	Prof Delia North	Dr James Allison	Dr Lizanne Raubenheimer	Prof Francesca Little
	<b>Venue</b>	5 0003	5 0005	5 0007	5 0002
14h00 - 14h15	Maths4Stats – To Be Involved Or Not To Be Involved – That Was The Question	Optimal Design For Two-Colour Cdna Microarray Experiment	Analysis Of Non-Food Household Expenditures Using Multivariate Structured Additive Regression Models	Meta-analysis of Covariate Effects Reported at Multiple Time Points	
	Rénette J Blignaut	Dibaba B. Gemechu and Legesse K. Debusho	Lawrence N. Kazembe	Alfred Musekiwa, Prof. Samuel OM Manda and Prof. Henry Mwambi	
14h20 - 14h35	Rewriting, Re-Registering But Not Always Revising: Patterns Of Behaviour In ODL Statistics Service Module Students	Comparison Of Some Methods For The Identification Of Common Eigenvectors	Bayesian Inference For The Piecewise Exponential Model Using Objective Priors	Frailty Modeling Of Recurrent Events	
	Eeva Rapoo	Theo Pepler	A.J. van der Merwe and P.C.N. Groenewald	Jacob Majakwara	
14h40 - 14h55	Investigating Success Rates Of First Level Statistics Students Before And After The Implementation Of An Online Homework System Called Aplia In 2012	Permutation Procedures for ANOVA, Regression and PCA	Comparison Of Objective Priors For The Censored Rayleigh Model	The Distribution of Data From Thorough QT Studies: -Normal or Log-Normal?	
	Fransonet Reyneke and Lizelle Fletcher	Christine Storm and Dr Lizelle Fletcher	Johannes Theodorus Ferreira	Wallina Oosthuizen and Robert Schall	

15h00 - 15h15	Reporting On Student Assessment of the Class Room Environment	A Review Of Non-Standard Applications Of SPC Charts	Adaptations Of KS Test With Applications	Smoothed Temporal Atlases Of Age-Gender And Cause Specific Mortality In South Africa	
	Prof. Delia North	Mandla Diko	Sean van der Merwe and DJ de Waal	Samuel OM Manda	
15h20 - 15h35	Challenges Of Large Class Teaching And Ideas To Facilitate A "Student-Centered" Learning Environment	Asymptotic Normality For The Nonparametric Estimator Of The Quintile Share Ratio	Comparing Two Poisson Means: A Bayesian Approach	Multivariate Spatial – Tempora Modeling of HIV and TB Co-Infections in South Africa	
	Yoko Chhana	Tchilabalo Abozou Kpanzou and Tertius de Wet	Lizanne Raubenheimer and Abrie van der Merwe	Annah Managa	
15h40 - 15h55	Students' Knowledge And Perception Of Quality Control Measures In Educational Services In Yaba College Of Technology, Lagos, Nigeria	Hidden Markov Model Extensions For Animal Movement Models	Using The Markov Chain Monte Carlo Method To Make Inferences On Items Of Data Contaminated By Missing Values	Models For The Analysis Of Competing Risks	
	Adeyemi Davidson Aromolaran	Victoria Goodall, Paul Fatti and Norman Owen-Smith	Innocent Karangwa and Prof D Kotze	Francesca Little	
16h00 - 16h30	<b>Tea</b>				
	Venue: Madibaz				
16h30 - 17h30	<b>Parrallel Sessions</b>				
	<b>Stream</b>	Applied Statistics	Analytics Competition	Process control	Cointegration
	<b>Chair</b>	Dr Tom Berning	Ms Inger Fabris-Rotelli	Ms Michelle Botes	Dr Vince Micali
	<b>Venue</b>	5 0002	5 0005	5 0007	5 0003
16h30 - 16h45	Multivariate Nonparametrics In Practice	An Overview Of Noise In Signal Analysis	Statistical Quality Control With Autocorrelated Data	Application of Granger Causality to Energy Market Models in South Africa	
	Prof Chris F Smit	PK Smith and IN Fabris-Rotelli	Michelle Botes	Vanessa Ndlovu	
16h50 - 17h05	Partial Least Squares (PLS) Variable Selection Using A Hybrid Particle Swarm Optimization Algorithm	An Overview Of Image Segmentation Techniques	A Comparison Of The Minimum And The Precedence Charts For Subgroup Data	Examining The Link Between Unemployment And Inflation Using Johansen's Co-Integration Approach And Vector Error Correction Modelling	
	Martin Philip Kidd and Martin Kidd	J-F Greeff and IN Fabris-Rotelli	Jean-Claude Malela-Majika	Sagaren Pillay	
17h10 - 17h25	Quantification of Estimation Instability and its Application to Threshold Selection in Extremes	An Investigation And Historical Overview Of The G/M And M/G Queueing Processes	Cumulative Sum (CUSUM) Control Chart: Refinements And Enhancements	Examining Long-Run Relationships Between The BRICS Stock Market Indices To Identify Opportunities For Implementation Of Statistical Arbitrage Strategie	
	Tom Berning	C Kraamwinkel and IN Fabris-Rotelli	Frederik Coenrad Delport	Brian Meki and D Kotze	
18h30 for 19h00	<b>Gala Dinner</b>				
	Venue: The Willows				



**FRIDAY: 09 NOVEMBER 2012**

<b>Registration</b>					
Venue: Foyer, building 5					
<b>Parrallel Sessions</b>					
08h50 - 09h30	<b>Stream</b>	Energy	Official Statistics/Classification	Applied Statistics	Applied Statistics
	<b>Chair</b>	Dr Delson Chikobvu	Dr Pravesh Debba	Prof Maseka Lesoanna	Dr Lizelle Fletcher
	<b>Venue</b>	5 0003	5 0005	5 0007	5 0002
09h10 - 09h25	Modelling Daily Increases In Peak Electricity Demand Using The Generalized Pareto Distribution		Sampling Design And Analysis In The Cardiovascular Risk Household Survey	Numerical Maximization Of Likelihoods, E.G. As An Alternative To EM	Panel Data Regression
	Caston Sigauke, Delson Chikobvu, Andréhette Verster		Nomonde Gwebushe , Carl Lombard, Nasheeta Peer, Naomi Levitt, Krisela Steyn, Estelle Lambert	Iain L. MacDonald	Dr Lizelle Fletcher, Ms S Surovitskikh, Prof B Lubbe
09h30 - 09h45	Tail Quantile Estimation Of Heteroskedastic Intraday Increases In Peak Electricity Demand		Herbaceous Biomass Prediction From Environmental And Remote Sensing Indicators	Accuracy And Fairness Of Rain Rules For Interrupted One-Day Cricket Matches	The Effect of Differential Skewness on the Factor Structure of Equal Interval Scale Data
	Caston Sigauke, Andréhette Verster and Delson Chikobvu		Nontembeko Dudeni-Tihone, Abel Ramoelo. Pravesh Debba, Moses Azong Cho, Renaud Mathieu	Robert Schall and Dianne Weatherall	Jaclyn Smith and Dr Lizelle Fletcher
09h50 - 10h05	Predicting Zimbabwe's Annual Rainfall Using Darwin Sea Level Pressure Index		Combining Binary Classifiers To Improve Tree Species Discrimination At Leaf Level	Using P-values for Multiple Comparisons	Bayesian Hierarchical Spatiotemporal Models In Epidemiology: A Case Study Of Tuberculosis In Kenya
	Retius Chifurira and Delson Chikobvu		Xolani Dastile, Gunther Jäger, Pravesh Debba, and Moses Cho	Francois Steffens	Thomas Achia
10h10 - 10h25	Exact Confidence Intervals For The P Quantile Based On Order Statistics Of A Two-Parameter Weibull Distribution		The MDS-GUI: A Graphical User Interface For Comprehensive Multidimensional Scaling Applications	Comparative Analysis Of Price Indices Of Electrical Appliances In South Africa	Aspects Of The V-Soft Minimal Hypersphere As An Outlier Detector For Multivariate Data
	Peter Iiyambo		Andrew Timm and Sugnet Lubbe	Happy Maluleke, Maseka Lesaoana, Rahab Makwela	Morné M.C. Lamont
<b>Tea</b>					
Venue: Madibaz					
<b>Plenary Session</b>					
Venue: 5 0007					
11h00 - 11h55	11h00 - 11h55	Guest and Title	Prof Tertius de Wet - Camponmetry		
		Chair	Prof Delia North: Chair of SASA Education Committee		
<b>Closing: SASA 2012</b>					
Dr Roelof Coetzer					
Venue: 5 0007					