



International Symposium in Statistics and Biostatistics 2019 THURSDAY, 18 JULY 2019

Time	Item	Topic	Venue
14h30-18h00	Registration		Future Africa campus
16h00-16h45	Welcoming and logistic arrangements	Prof Jean Lubuma (Dean, Faculty of Natural and Agricultural Sciences) Prof Bernard Slippers (Director, Future Africa) Prof Andriëtte Bekker (Head, Department of Statistics, UP)	Main Auditorium
Chair of session: Prof Andriëtte Bekker			
16h45-17h30	Invited speaker and discussion	Prof Sudipto Banerjee <i>High-Dimensional Bayesian Geostatistics (on your laptop)!</i>	Main Auditorium
17h45-late	Cocktail dinner		Future Africa campus

FRIDAY, 19 JULY 2019

Time	Item	Topic	Venue
Chair of session: Prof Alfred Stein			
08h00-08h45	Invited speakers and discussion	Prof Jack Lee <i>Novel Bayesian adaptive designs and their applications in cancer clinical trials</i>	Main Auditorium
08h45-09h30		Prof Adelchi Azzalini <i>Fitting a skew-t distribution to data: features, challenges and tools</i>	
09h30-10h00	Tea break		
Contributed talks			
Chair of session: Prof Mohammad Arashi			
10h00-10h25	Dr Sollie Millard	Semi parametric mixture of generalised linear models	Main auditorium
10h25-10h45	Mr Jacob Modiba	Multiscale spatio-temporal analysis of crime data	
10h45-11h05	Ms Claire Geldenhuys	Weighted Type II bivariate Pólya-Aeppli distributions	
11h05-11h25	Ms Renate Thiede	Statistical accuracy of a linear object extraction algorithm for greyscale images	

11h25-11h45	Ms Brenda MacOduel	Asymmetric generalizations of symmetric univariate probability distributions obtained through quantile splicing	
11h45-12h00	Comfort break		
Chair of session: Prof Jeffrey Wilson			
12h00-12h45	Invited speakers and discussion	Prof Alfred Stein <i>Spatial interpolation of extreme PM1 values using copulas</i>	Main Auditorium
12h45-13h30		Prof Tony Sun <i>Variable selection of interval-censored failure time data</i>	
13h30-14h30	Lunch		
Chair of session: Prof Narayanaswamy Balakrishnan			
14h30-15h15	Invited speakers and discussion	Prof Tony Ng <i>A gamma process modelling approach for the comparison of dissolution profiles</i>	Main Auditorium
15h15-16h00		Prof Mohammad Arashi <i>Simultaneous variable selection and estimation in generalized semiparametric mixed effect modelling of longitudinal data</i>	
16h00-16h15	Coffee break		
Contributed talks	Chair of session: Prof Tsung-I Lin		
16h15-16h35	Prof Ahad Jamalizadeh	Multivariate order statistics induced by ordering linear combinations of components of multivariate elliptical random vectors	Main Auditorium
16h35-16h55	Ms Jocelyn Mazarura	A gamma Poisson topic model for short text	
16h55-17h15	Ms Iketle Maharela	A comparison of the Cox proportional hazards model and accelerated failure time models in analyzing graduation data	
17h15-17h35	Dr Jaco Visagie	On the use of polynomial weight functions in the weighted Poisson distribution	
17h35-17h45	Comfort break		
Chair of session: Prof Tony Sun			
17h45-18h30	Invited speaker and discussion	Prof Jeffrey Wilson <i>What do we wish to investigate? Questions and answers? Extrapolation?</i>	Main Auditorium
19h00- till late	Symposium dinner (additional fee)		

SATURDAY, 20 JULY 2019

Time	Item	Topic	Venue
Chair of session: Prof Tony Ng			
08h00-08h45	Invited speakers and discussion	Prof Wan-Lun Wang <i>Bayesian approach to multivariate-t nonlinear mixed models with missing responses at random</i>	Main Auditorium
08h45-09h30		Prof Peter Kim <i>Topological data analysis of clostridium difficile infection and fecal microbiota transplantation</i>	
09h30-09h50	Tea break		

Contributed talks	Chair of session: Dr Sollie Millard		
09h50-10h10	Prof Samuel Manda	A Bayesian survival model using weighted observations from nonproportionally sampled strata	Main Auditorium
10h10-10h30	Mr Jarod Smith	Extreme quantile estimation within an artificially censored framework	
10h30-10h50	Dr Mehrdad Naderi	Modelling right-skewed financial data stream with outliers	
10h50-11h10	Dr Elham Mirfarah	B-spline and weighted least-squares methods for right-censored data in partially linear accelerated failure time mode	
11h10-11h30	Dr Divan Burger	A generalized Bayesian nonlinear mixed effects regression model for zero inflated longitudinal count data in tuberculosis trials	
11h30-11h45	Comfort break		
Chair of session: Prof Wan-Lun Wang			
11h45-12h30	Invited speakers and discussion	Prof Yong Ge <i>Discussion on scaling issues in geospatial earth science data</i>	Main Auditorium
12h30-13h15		Prof Tsung-I Lin <i>Automated learning of mixtures of factor analyzers with incomplete data</i>	
13h15-14h15	Lunch		
Chair of session: Prof Carlos Coelho			
14h15-15h00	Invited speakers and discussion	Prof Hani Samawi <i>On improving the performance of logistic regression analysis via extreme ranking</i>	Main Auditorium
15h00-15h45		Prof Bimal Sinha <i>Statistical analysis of noise multiplied data based on multiple imputation</i>	
15h45-16h00	Comfort break		
Contributed talks	Chair of session: Prof Peter Kim		
16h00-16h20	Dr Gretel Crafford	The application of multilevel modeling to investigate the mathematical achievement of grade 9 learners in South Africa for the TIMSS 2015 data	Main Auditorium
16h20-16h40	Ms Ansie Smit	Aleatory and epistemic uncertainty in natural hazard assessment	
16h40-17h00	Dr Paul van Staden	An alternate construct of the quantile-based generalized skew logistic distribution	
17h00-17h20	Dr Janet van Niekerk	Complex survival joint models using R-INLA - nonlinear, spatial and competing risk models	
17h20-17h40	Coffee break		
Chair of session: Prof Din Chen			
17h40-18h25	Invited speaker	Prof Narayanaswamy Balakrishnan <i>Cure models</i>	Main Auditorium
18h25-18h30	Closing address	Prof Din Chen	