



2021 SAMSA Masamu CRN Virtual Colloquia Series

Talks will be held at 16:00 GMT/18:00 CAT. Zoom links will be sent via email.

<https://masamu.auburn.edu>

Date	Speaker	Title	Date	Speaker	Title
Feb. 09	Steve Dobson, Auburn University	Multiple Paternity: How We Used Combinatorics, Bayesian Analyses, and Mixed Models to Study Animal Behavior	June 15	Michael Washington, US Centers for Disease Control and Prevention (CDC)	The Use of Models to Make Informed Public Health Decisions
Feb. 23	Sure Mataramvura, University of Cape Town	A hybrid Neural Network- GARCH approach to forecasting Zimbabwean inflation volatility	July 06	Innocent Maposa, University of the Witwatersrand	Hamiltonian Monte Carlo Approaches to sampling high dimensional posteriors: Performance in comparison to Random-Walk MCMC Metropolis-Hastings methods
Mar. 09	Ben Levy, Fitchburg State University	Modeling the Effect of HIV/AIDS Stigma on HIV Infection Dynamics in Kenya	July 20	Pete Johnson, Auburn University	Generalized Frobenius Problems
Mar. 23	Samuel Manda, South African Medical Research Council	A Spatial Analysis of COVID-19 in African countries: Evaluating the Effects of Sociodemographic, Geographical, Disease Vulnerability, Preparedness, and COVID-19 Importation Determinants	Aug. 24	Suzanne Lenhart, University of Tennessee	Optimal control for management of aquatic population models
Apr. 06	Javier Arsuaga, University of California, Davis	Mathematical approaches to the problem of DNA packing in bacterial viruses	Sep. 07	Mokhwetha Mabula, University of Pretoria	Order-isometries of ordered asymmetrically normed cones
Apr. 20	Jane White, University of Bath	Crime Modeling	Sep. 21	Inger Fabris-Rotelli, University of Pretoria	Designing a spatial rabies vaccination scheme
May 04	Farai Mhlanga, University of Limpopo	On the pathwise stochastic integration for model-free finance	Oct. 05	David Erwin, University of Cape Town	Distance domination and generalized eccentricity in graphs with given minimum degree
May 18	Paul Horn, University of Denver	Combinatorics and dynamics of a drone network	Oct. 19	Eduard Campillo-Funollet, University of Kent	Forestry and mathematics: the effect of peri-urban woodland on pollution absorption
June 01	Alfred Menezes, University of Waterloo	Lattice-based cryptography	Nov. 02	Bernard Omolo, University of South Carolina Upstate	Some Statistical Challenges in the Analysis of Single-Cell RNASeq Data