INTERNATIONAL SYMPOSIUM ON MODERN BIOSTATISTICS AND MACHINE LEARNING

26 to 28 July 2022

The international symposium is jointly organized and sponsored by the Department of Statistics at the University of Pretoria, the South Africa DST-NRF-SAMRC SARChI research chair in Biostatistics, and the College of Health Solutions at the Arizona State University, USA.

Main Campus, University of Pretoria
26 July: SANLAM Auditorium
27, 28 July: SRC Chambers

Theme:

Biostatistics is a scientific field with an integral role in modern medicine and health sciences, from designing clinical trials and intervention studies to analyzing data to determining whether a new vaccine or treatment has intended effectiveness in real life. Modern biostatistics is at the forefront of modern health research data science analytics to seek solutions for emerging diseases and health problems, often with enormous analytical complexities that arise from using high-dimensional and big health data. The symposium will further focus on machine learning for effective implementation in Biostatistics. The theme of this international symposium is to bring together researchers in South Africa and internationally to share research and development in biostatistical modeling and health-related applications, with workshops on machine learning.

Details:

To present in this symposium, please send the title and abstract to Professor Inger Fabris-Rotelli (email: inger.fabris-rotelli@up.ac.za). Presentations can be virtual and in-person, however in-person presentations will be given preference.

The registration fee covers the food (teas and coffee, lunch) and related conference fees. We will sponsor the registration fee for selected in-person presenters under competitive selections and please indicate your reason to apply for the registration fee waiver.

Registration fee (3 days): R1800

Deadline for Registration:

23 July 2022 for virtual attendance link

19 July 2022 for in-person attendance link

Graduate academics who qualify for UCDP funding may attend day 3 on machine learning free of charge provided you sign up at the link above and indicate so. If you wish to attend day 1 and 2 as well please also register at the link above (you can apply for funding from UCDP for these days separately if you wish – please contact Inger if you need assistance on how to do this, or ask your UCDP node leader).

Organizers:

Professor Samuel Manda, Head of the Department of Statistics, University of Pretoria, South Africa

Professor (Din)Ding-Geng Chen, Executive Director and Professor in Biostatistics, College of Health Solutions, Arizona State University, USA, Extraordinary Professor and DST-NRF-SAMRC SARChI Research Chair in Biostatistics, Department of Statistics, University of Pretoria, South Africa

Professor Inger Fabris-Rotelli, Department of Statistics, University of Pretoria, South Africa

Program Overview:

	Tues, 26th	**Wednesday, 27th**	**Thursday, 28th**
8:00-9:00	Arrive tea and Coffee	Arrive tea and Coffee	Arrive tea and Coffee
9:00-10:30	Session 1	Session 1	Workshop: Introduction to AWS (de Waal et al)
10:30-11:00	Tea/Coffee/Social	Tea/Coffee/Social	Tea/Coffee/Social
11:00-12:30	Session 2	Session 2	Workshop: Introduction to AWS (de Waal et al)
12:30-13:30	Lunch and Social	Lunch and Social	Lunch and Social
13:30-15:00	Session 3	Session 3	Workshop: Machine Learning Ingredients for Data Science (Arashi)
15:00-15:30	Tea/Coffee/Social	Tea/Coffee/Social	Tea/Coffee/Social
15:30-16:30	Session 4	Session 4	Workshop: Machine Learning Ingredients for Data Science (Arashi)

Invited Speakers:

Dr. Mohammad Arashi Associate Professor, Department of Statistics, Ferdowsi University of Mashhad, Mashhad, Iran, Extraordinary Professor, Department of Statistics, University of Pretoria, Hatfield, South Africa

Dr. (Din)Ding-Geng Chen Executive Director and Professor in Biostatistics, College of Health Solutions, Arizona State University, USA, Extraordinary Professor and DST-NRF-SAMRC SARChI Research Chair in Biostatistics, Department of Statistics, University of Pretoria, South Africa

Dr. Alta de Waal Extraordinary Lecturer, Department of Statistics, University of Pretoria, BMW, South Africa

Dr. Inger Fabris-Rotelli Associate Professor, Department of Statistics, University of Pretoria, South Africa

Dr. Samuel Manda Professor, Head of the Department of Statistics, University of Pretoria, South Africa

Dr. Zvifadzo Matsena-Zingoni post-doctoral researcher within the School of Public Health at the University of Witwatersrand

Dr. Jeffrey Wilson Professor in Biostatistics and Associate Dean for Research, Arizona State University

Dr. Hui Zhang Professor of Biostatistics, Department of Preventive Medicine, Northwestern University, USA

Dr. Zhengjun Zhang Professor of Statistics, Department of Statistics, University of Wisconsin –Madison, USA.