

SENIOR DATA SCIENTIST PRESENTS AT CHPC NATIONAL CONFERENCE

17 JANUARY 2024



Dr [Linda Maoyi](#), a senior data scientist at [SAPRIN](#), was a guest speaker at the Centre for High-Performance Computing's (CHPC) National Conference on 5 December 2023. Dr Maoyi's talk was titled, "Enhancing Population Health Research using the SAPRIN HDSS Data Science Platform."

The 17th CHPC conference was held from 4 – 7 December 2023 at the Kruger National Park in Mpumalanga. The conference aimed to

provide a platform for CHPC users to communicate their work, included world renowned experts and offered a rich programme for students in high-performance computing, big data, and high-speed networking.

The conference was convened under the relevant theme, "[Machine Learning](#), [Cloud](#) and [Quantum Computing](#): The Changing Landscapes of HPC." The theme explored how high-performance computing has broadened into activities beyond large-scale simulation and high throughput processing of experimental data. Now, those are joined by machine learning models derived from big data sets, with notable successes in pattern recognition and the pattern mimicry of generative models. On the hardware frontier, quantum computing offers [exotic processing potential](#), while commodity enterprise computing brings the flexibility of cloud computing to HPC.

The conference was organised by the [Centre for High Performance Computing \(CHPC\)](#) with support from the [Data Intensive Research Initiative of South Africa \(DIRISA\)](#) and the [National Research and Education Network of South Africa \(SANReN\)](#).

Dr Maoyi's presentation explained how SAPRIN's data is processed on CHPC, described the current state of the [data repository](#), and highlighted the vision for the SAPRIN HDSS data science platform in the future. Dr Maoyi described the conference as an essential platform that allowed delegates to gain insight into the work and developments of role players in the sector.