# NITheCS

**National Institute for
Theoretical and Computational Sciences**

## NITheCS MICRO-SCHOOL:

# Matplotlib Introduction - Don't Lose the Plot

## Donovan Slabbert (Stellenbosch University)

### Wed 12 June 2024  |  14h00-14h30 SAST
### Attend online

## ABSTRACT

A multitude of tools and technologies are available for creating informative plots in data analysis, including various programming languages, libraries, and software packages. This introduction will focus on the Matplotlib library, particularly the Pyplot module, demonstrating how to create basic plots in Python. We will explore techniques to decorate and refine these plots, enhancing their effectiveness for visualisation and communication. Topics will include customising plot elements, using different colour options, and adding annotations and labels. The goal is to equip attendees with the skills to produce clear visualisations.

## BIOGRAPHY

Donovan is a second-year PhD student at Stellenbosch University under Prof Francesco Petruccione. His research combines quantum machine learning and astronomy, using Quantum Convolutional Neural Networks and Quantum-Enhanced Support Vector Machines for pulsar classification and anomaly detection. He earned a physics degree from the University of Pretoria and a Master's in quantum information and communication from the University of Witwatersrand, specialising in quantum key distribution. He interned at IBMQ South Africa in Braamfontein.

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