



MICRO-SCHOOL

NITheCS

National Institute for
Theoretical and Computational Sciences

Introduction to Plotly: Creating Interactive Visualisations in Python

Amy Rouillard (Stellenbosch University)

Fri, 28 February 2025 | 12h00-12h30 SAST

Attend online

ABSTRACT

During this Micro-school we will explore Plotly, a powerful and versatile Python library for creating interactive, publication-quality visualisations. Plotly offers an intuitive way to build amazing interactive charts that can be easily shared and embedded in talks and web applications. I will provide an overview of Plotly's key features, including its interactivity, customizability, and seamless integration with popular data science tools like Pandas and NumPy. Through live demonstrations, I'll walk you through creating common chart types such as line plots, bar charts, and scatter plots, as well as more advanced visualisations using Plotly Graph Objects. We'll also cover how to export and share your interactive charts in various formats. By the end of this session, you'll have a solid understanding of Plotly's capabilities and how to use it to enhance your data storytelling.

BIOGRAPHY



Amy is a third-year PhD student in the Quantum Research Group of Stellenbosch University, under the supervision of Prof Francesco Petruccione. Amy completed her previous studies at the University of KwaZulu-Natal, where she earned a Master's degree under the supervision of Prof Thomas Konrad. During her master's program her research focused on the development of robust control schemes for quantum systems, specifically on measurement-based feedback and coherent feedback techniques.

Her current research interests lie at the intersection of physics, machine learning, and quantum technologies. In particular, she has worked on developing a machine learning tool that could assist in the discovery of new quantum algorithms.

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