

MICRO-SCHOOL



Introduction to Automated Testing in Python with Pytest

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Fri, 1 August 2025 | 12h00-12h30 SAST Attend online

ABSTRACT

This micro-school introduces participants to Pytest, a widely used testing framework in the Python ecosystem known for its simplicity and power. The session covers the basics of writing test functions, using assertions, and structuring tests for clarity and maintainability. Participants will also learn how to use fixtures for reusable test setup, how to parameterize tests for broader coverage, and how to integrate Pytest into an automated workflow using GitHub Actions. By the end of the session, attendees will have a practical understanding of how to apply automated testing to their Python projects, improving code confidence and development efficiency.

BIOGRAPHY

Shane is a second-year PhD student in Physics at Stellenbosch University, working under the supervision of Prof Francesco Petruccione and Prof Ilya Sinayskiy. His research focuses on the development of quantum algorithms for applications suited to Noisy Intermediate-Scale Quantum (NISQ) devices. He holds a BSc in Computer Science and Mathematics, and completed his MSc in Computer Science at the University of KwaZulu-Natal, where he explored variational quantum classifiers.



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