



MICRO-SCHOOL

NITheCS

National Institute for  
Theoretical and Computational Sciences

# Introduction to GitHub Actions

Shane McFarthing (Stellenbosch University)

Fri, 13 June 2025 | 12h00-12h30 SAST

Attend online

## ABSTRACT

This micro-school introduces participants to GitHub Actions, a powerful automation feature built into GitHub that enables you to streamline your development workflow. Aimed at those who are already familiar with Git and GitHub, this session focuses on how to use GitHub Actions to automatically run tasks like testing, linting, and building your code whenever you make changes to a repository. Through live demonstrations and hands-on examples, you'll learn how to write simple workflow files in YAML, understand what triggers them, and use both built-in and community-contributed actions. By the end of the session, you'll be equipped with practical skills to automate common development tasks, helping you write better code, catch mistakes early, and save time. Whether you're working on coursework, personal projects, or collaborative development, GitHub Actions will give you a strong foundation in modern software practices.

## PREREQUISITE TO ATTEND

Before attending this event, we recommend watching the recording of the Micro-school *"Introduction to Git & GitHub"*, held on 11 October 2024.

- Abstract: <https://bit.ly/4dQ8ofS>
- Video Recording: [youtube.com/watch?v=OoVem\\_JrEgs](https://youtube.com/watch?v=OoVem_JrEgs)

## 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.



REGISTER: <https://bit.ly/4kteG7M>



science, technology  
& innovation  
Department:  
Science, Technology and Innovation  
REPUBLIC OF SOUTH AFRICA



National  
Research  
Foundation



Stellenbosch  
UNIVERSITY  
IYUNIVESITHI  
UNIVERSITEIT