MICRO-SCHOOL

NITheCS
National Institute for
Theoretical and Computational Sciences

Intermediate Visual Studio Code - Part 2

Dean Brand (Stellenbosch University & NITheCS)

Fri, 6 September 2024 | 12h00-12h30 SAST

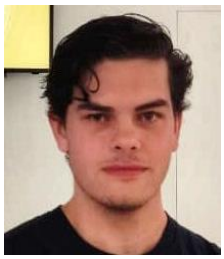
Attend online OR in the Physics Seminar Room, Stellenbosch University

ABSTRACT

Building upon the experience of getting started with using Visual Studio Code as your primary workspace for all of your programming and code development, we will get into more interesting features that the software has to offer. This presentation will go into useful extensions, such as the AI programming assistant GitHub Copilot, and how to integrate it into your development flow. We will also explore how to deal with common software engineering workflows such as the built-in debugging abilities of VS Code, how to develop remotely using SSH, and through Windows Subsystem for Linux (WSL). We will also look at the simplified experience of using source control to work with git and GitHub with the accessible UI instead of using the command line.

To maximise your benefit from this Micro-school, you may consider viewing Part 1 of the VSC Micro-school: '*Introduction to Visual Studio Code – Your Coding Playground*' at https://bit.ly/4dMHrJu prior to attending this event.

BIOGRAPHY



Dean is a second-year PhD student in the Quantum Research Group of Stellenbosch University, under the supervision of Prof Francesco Petruccione. His current research focuses on the intersection of quantum computing and neuromorphic computing, to find an optimal hybridisation of these technologies. Dean completed his BSc and BSc Honours at the University of the Witwatersrand, majoring in astronomy, astrophysics, and theoretical physics. After this he completed a NITheCS internship with Prof Petruccione and Prof Ilya Sinayskiy (University of KwaZulu-Natal) (UKZN), which was an introductory research project on quantum computing. This led to a Master's degree with the same supervisors at UKZN, which was based on an application of Open Quantum Systems techniques to model the noise of IBM quantum computers. His research interests have since evolved to include machine learning and quantum algorithms, which are central to the idea and aims of neuromorphic quantum computing, especially for applications such as artificial intelligence and deep learning.

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