## **COMBINE WORKSHOP SERIES**

# Python for the Life Sciences

Presenter Dr. Bernie Pope, Specialist Programmer

Victorian Life Sciences Computation Initiative (VLSCI)

Date & Time Thursday, 26 September, 2013

2:00pm to 5:00pm

Venue Room 546, Building 263

Melbourne Graduate School of Education

234 Queensberry Street The University of Melbourne

Campus Maps Ref: U17

Google Maps: goo.gl/maps/sZ3zm

Registration Sign up at TBD, registration is FREE but limited to 20 places.

What to Bring Your laptop.

Prerequisites A basic proficiency in any programming language is preferred.

Enquiries workshops@combine.org.au

### **Workshop Description**

In this workshop, we provide a hands-on introduction to the fundamentals of the Python programming language (python.org) and its data processing features through worked-examples involving bioinformatics datasets.

Upon completion of the workshop, you will have gained a foundational proficiency in Python, enabling you to use some of its powerful (and programmer-friendly) features in research-related tasks.

We are aiming to cover the following topics:

A review of programming fundamentals (e.g. variables, loops, conditions, procedures, and data types), principles of good programming style, introduction to bioinformatics libraries, and manipulating bioinformatics datasets.

If you have a specific topic or problem in your research programming that you would like covered, please email us at workshops@combine.org.au.

#### **About the Presenter**





Dr. Bernie Pope is a specialist programmer at the VLSCI, a high-performance computing (HPC) facility for life sciences research. He is also an Honorary Fellow and lecturer for *COMP10001 Foundations in Computing* in the Department of Computing and Information Systems at the University of Melbourne.

His research interests include programming language implementation and theory, especially functional programming languages such as Haskell. Recently focussing on bioinformatics and computational biology, Dr Pope teaches several of VLSCI's programming skills courses, helping scientists unlock the potential of HPC facilities for their everyday research.

For more details, please visit his website at berniepope.id.au.

# **About Us**

COMBINE is the official ISCB Regional Student Group for Australia, a student-run organisation for researchers in computational biology, bioinformatics, and related fields.

For more information about COMBINE, upcoming events, or to become a volunteer, please visit our website at combine.org.au.

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