

COMBINE WORKSHOP SERIES

Python for the Life Sciences

<i>Presenter</i>	Dr. Bernie Pope, <i>Specialist Programmer</i> Victorian Life Sciences Computation Initiative (VLSCI)
<i>Date & Time</i>	Thursday, 26 September, 2013 2:00pm to 5:00pm
<i>Venue</i>	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
<i>Registration</i>	Sign up at TBD, registration is <i>FREE</i> but limited to 20 places.
<i>What to Bring</i>	Your laptop.
<i>Prerequisites</i>	A basic proficiency in any programming language is preferred.
<i>Enquiries</i>	combine@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 TBD.

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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