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.

We are proudly sponsored by:

- ICT for Life Sciences Forum
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