



13th Annual Bioinformatics Open Source Conference

BOSC 2012 Schedule

Day 1 (Friday, July 13, 2012)

Time	Title	Speaker or Session Chair
7:30-9:00	Registration	
9:00-9:15	Introduction and Welcome	Nomi Harris (Chair, BOSC 2012)
9:15-10:15	Keynote: Science Wants to Be Open - If Only We Could Get Out of Its Way	Jonathan Eisen
10:15-10:45	<i>Coffee Break</i>	
10:45-12:30	Session: Cloud and Parallel Computing	Chair: Richard Holland
10:45-11:10	Cloudfuge - an execution platform for MapReduce programs in public and private clouds	Sebastian Schoenherr
11:10-11:35	Data reduction and division approaches for assembling short-read data in the cloud	C. Titus Brown
11:35-12:00	MGTAXA - a toolkit and a Web server for predicting taxonomy of the metagenomic sequences with Galaxy front-end and parallel computational back-end	Andrey Tovchigrechko
12:00-12:15	Workflows on the Cloud - Scaling for National Service	Katy Wolstencroft
12:15-12:30	How to use BioJava to calculate one billion protein structure alignments at the RCSB PDB website	Andreas Prlic
12:30-1:30	<i>Lunch</i>	
12:30-2:00	Poster Session I	
2:00-3:30	Session: Genome-scale Data Management	Chair: Ronald Taylor
2:00-2:15	Using HDF5 to work with large quantities of biological data	Dana Robinson
2:15-2:30	Large scale data management in Chipster 2 workflow environment	Aleksi Kallio
2:30-2:45	JBrowse 2012	Ian Holmes
2:45-3:00	Khmer: A probabilistic approach for efficient counting of k-mers	Qingpeng Zhang
3:00-3:15	AmiGO 2: a document-oriented approach to ontology software and escaping the heartache of an SQL backend	Seth Carbon
3:15-3:30	Discovery of motif-based regulatory signatures in whole genome methylation experiments	Jens Lichtenberg

Time	Title	Speaker or Session Chair
3:30-4:00	<i>Coffee Break</i>	
4:00-5:30	Session: Linked Data and Translational Knowledge Discovery	Chair: Jan Aerts
4:00-4:25	The open source ISA metadata tracking framework: from data curation and management at the source, to the linked data universe	Philippe Rocca-Serra
4:25-4:50	Automated infrastructure for custom variant comparison and analysis	Brad Chapman
4:50-5:05	KUPKB: Sharing, Connecting and Exposing Kidney and Urinary Knowledge using RDF and OWL	Julie Klein
5:05-5:20	eagle-i: development and expansion of a scientific resource discovery network	Sophia Cheng
5:20-5:30	Report on Codefest 2012	Brad Chapman
5:30-5:40	Introduction to the Open Bioinformatics Foundation (O B F)	Hilmar Lapp (President, O B F)
5:40-6:40	Poster Session II	
5:40-6:40	BOFs	
7:00	Pay-your-own-way BOSC dinner (\$25) RSVP at http://bit.ly/BOSC2012-dinner	George's Greek Café, 135 Pine Ave.

Day 2 (Saturday, July 14, 2012)

Time	Title	Speaker or Session Chair
8:45-8:50	Announcements	Nomi Harris
8:50-9:50	Keynote: If I Build It Will They Come?	Carole Goble
9:50-10:15	Pistoia Alliance Sequence Squeeze: Using a competition model to spur development of novel open-source algorithms	Richard Holland
10:15-10:45	<i>Coffee Break</i>	
10:45-12:30	Session: Software Interoperability	Chair: Hilmar Lapp
10:45-11:00	GenomeSpace: An open source environment for frictionless bioinformatics	Michael Reich
11:00-11:15	Galaxy Project Update	Dannon Baker
11:15-11:30	Zero to a Bioinformatics Analysis Platform in 4 Minutes	Enis Afgan

Time	Title	Speaker or Session Chair
11:30-11:55	PyPedia: A python crowdsourcing development environment for bioinformatics and computational biology	Alexandros Kanterakis
11:55-12:10	InterMine - Embeddable Data-Mining Components	Alexis Kalderimis
12:10-12:25	Creating biology pipelines with BioUno	Bruno Kinoshita
12:30-1:30	Lunch	
12:30-1:45	Poster Session III	
1:45-3:30	Session: Bioinformatics Open Source Project Updates	Chair: Jeremy Goecks
1:45-2:00	Mobyle Web Framework: New Features	Hervé Ménager
2:00-2:15	Biopython Project Update	Eric Talevich
2:15-2:40	Biogem, Ruby UCSC API, and BioRuby	Hiroyuki Mishima
2:40-2:55	A Framework for Interactive Visual Analysis of NGS Data using Galaxy	Jeremy Goecks
2:55-3:10	Why Scientists Should Contribute to Wikipedia	Spencer Bliven
3:10-3:25	scabio - a framework for bioinformatics algorithms in Scala	Markus Gumbel
3:30-4:00	Coffee Break	
4:00-4:30	Session: Lightning Talks	Chair: Kam Dahlquist
4:00-4:07	bioKepler: A Comprehensive Bioinformatics Scientific Workflow Module for Distributed Analysis of Large-Scale Biological Data	Jianwu Wang
4:07-4:14	(Last-minute lightning talk)	
4:14-4:21	(Last-minute lightning talk)	
4:21-4:28	Bioinformatics Testing Consortium: Codebase peer-review to improve robustness of bioinformatic pipelines	Ben Temperton
4:30-5:30	Panel: Bioinformatics Paper Reviews--Openness of Standards and Standards of Openness	<i>Moderator:</i> Brad Chapman <i>Panelists:</i> Titus Brown, Iain Hrynaszkiwicz, Hilmar Lapp, Scott Markel, Ben Temperton
5:30-5:40	Presentation of awards	Nomi Harris
5:40-6:40	BOFs	

Any last-minute schedule updates will be posted at http://www.open-bio.org/wiki/BOSC_2012_Schedule

Posters

Number	Poster Title and Author
1	Cloudfuge - an execution platform for MapReduce programs in public and private clouds (Sebastian Schoenherr)
2	Data reduction and division approaches for assembling short-read data in the cloud (C. Titus Brown)
3	Workflows on the Cloud: Scaling for National Service (Katy Wolstencroft)
4	Using HDF5 to Work With Large Quantities of Biological Data (Dana Robinson)
5	Large scale data management in Chipster 2 workflow environment (Aleksi Kallio)
6	Khmer: A probabilistic approach for efficient counting of k-mers (Qingpeng Zhang)
7	Discovery of motif-based regulatory signatures in whole genome methylation experiments (Jens Lichtenberg)
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13	Creating biology pipelines with BioUno (Bruno Kinoshita)
14	Moby Web Framework: New Features (Hervé Ménager)
15	Biogem, Ruby UCSC API, and BioRuby (Hiroyuki Mishima)
16	Why Scientists Should Contribute to Wikipedia (Spencer Bliven)
17	scabio - a framework for bioinformatics algorithms in Scala (Markus Gumbel)
18	bioKepler: A Comprehensive Bioinformatics Scientific Workflow Module for Distributed Analysis of Large-Scale Biological Data (Jianwu Wang)
19	Bioinformatics Testing Consortium: Codebase peer-review to improve robustness of bioinformatic pipelines (Ben Temperton)
20-25	<i>Walk-in posters</i>