Imperial College London

LICSB 2009

Center of Bioinformatics & Institute of Mathematical Sciences & Center for Integrative Systems Biology at Imperial College London





Imperial College London

Programme

Wednesday 1st April
11:00-11:40 High resolution multi-platform copy number variation genotyping and imputation using a haplotype hidden Markov model
Lachlan Coin
11:40-12:00 The Identification of Informative Genes from Multiple Datasets with Increasing Complexity
Yahya Anvar
12:00-12:20 Detecting Evolutionary Inter-Gene Heterogeneity in Borrelia burgdorferi
Elisa Loza Reyes

Lunch

14:00-14:20 Prediction of the role of mutations in gap junction genes from a large scale computational model of the cochlea of the inner ear
Pavel Mistrik
14:20-14:40 Gaussian process regression bootstrapping
Paul Kirk
14:40-15:00 Estimation of Multiple Transcription Factor Activities using ODEs and Gaussian Processes
Michalis Titsias
15:00-15:20 Definition of Valid Proteomic Biomarkers: Bayesian Solutions to a Currently Unmet Challenge
Keith Harris

Tea/Coffee

15:50-16:30 *Time-varying genetic network inference using informative priors* Sophie Lebre

16:30-16:50 Moment closure and block updating for parameter inference in stochastic biological models
Peter Milner
16:50-17:10 Moment closure and block updating for parameter inference in stochastic biological models
Tina Toni

17:10-17:30 Exploring experimental designs for network inference using perturbations and a Bayesian sequential learning strategy

Christopher Penfold

Programme

Thursday 2nd April 9:00-9:40 Hybrid inference for stochastic kinetic models Andrew Golightly 9:40-10:00 Bayesian Hypotheses Testing in Raman Spectroscopy Vladislav Vyshemirsky 1000-1020 Inference in a probabilistic model of dynamic DNA Catherine Higham

Tea/Coffee

1050-1110 Beyond Molecular Biology – Applying Gene Regulation Network Inference Methods in Ecology Frank Dondelinger
1110-1150 Temporal Development and Collapse of an Arctic Plant-Pollinator Network
Carsten Wiuf

