

Sixth Wellington Workshop in Probability and Mathematical Statistics

Day 1: Monday 4 December 2017		Room: LB LT118
Refreshments 10:30 – 10:50		
Session 1 (10:50 – 12:30)		Chair: John Haywood
10:50 – 11:00	<i>Formal Welcome (Professor Mike Wilson, Pro Vice-Chancellor, Victoria University) and Housekeeping</i>	
11:00 – 11:30	Spiridon Penev (University of New South Wales) <i>Locally Robust Methods and Near-Parametric Asymptotics</i>	
11:30 – 12:00	Marc Ditzhaus (Heinrich Heine University Duesseldorf) <i>The Power of Tests for Signal Detection in High Dimensional Data</i>	
12:00 – 12:30	Yuichi Hirose (Victoria University of Wellington) <i>Statistical Generalized Derivative Applied to the Profile Likelihood Estimation in a Mixture of Semiparametric Models</i>	
Lunch 12:30 – 1:30		
Session 2 (1:30 – 3:30)		Chair: Martin Hazelton
1:30 – 2:00	Lawrence Ward (University of British Columbia) <i>Spatial Pattern Formation via Stochastic Neural Field Equations</i>	
2:00 – 2:30	Priscilla Greenwood (University of British Columbia) <i>Mexican Hat Coupling of Quasi-Cycle Operators Produces Quasi-Patterns</i>	
2:30 – 3:00	Karim Seghouane (University of Melbourne) <i>Robust Hemodynamic Response Function Estimation and Brain Activity Detection from fNIRS Signals</i>	
3:00 – 3:30	Pierre Del Moral (INRIA, University of Bordeaux) <i>On the Stability and the Uniform Propagation of Chaos Properties of Ensemble Kalman-Bucy Filters</i>	
Workshop Photo, then Refreshments 3:30 – 4:00		
Session 3 (4:00 – 6:00)		Chair: Mike Steel
4:00 – 4:30	Mark Holmes (University of Melbourne) <i>Random Graphs Arising from Strong Reinforcement Models</i>	
4:30 – 5:00	Omer Angel (University of British Columbia) <i>Bootstrap Percolation on Random Graphs</i>	
5:00 – 5:30	Alejandro Ramirez (Catholic University of Chile) <i>Perturbative Characterization of Ballisticity of Random Walks</i>	
5:30 – 6:00	Jesse Goodman (University of Auckland) <i>Two Locality Properties in Two Dimensions</i>	
Drinks, Workshop Dinner and Birthday Cake: Fratelli, 15 Blair St, Wellington 7:30 –		

Day 2: Tuesday 5 December 2017**Room: LB LT118****Optional walking tour: Wellington Botanic Garden**

9:00 – 10:45

*Departing from the Workshop venue, enjoy a short (but somewhat hilly) walking tour of the Wellington Botanic Garden. (Possibly weather-dependent!)***Refreshments 10:30 – 11:00****Session 4 (11:00 – 12:30)****Chair: Ilze Ziedins**

11:00 – 11:30

Mike **Steel** (University of Canterbury, Christchurch)
Tricks for Trees: Probabilistic Techniques for Phylogenetic Combinatorics

11:30 – 12:00

Leigh **Roberts** (Victoria University of Wellington)
Distribution-Free Testing of Grouped Bernoulli Trials

12:00 – 12:30

Richard **Arnold** (Victoria University of Wellington)
*Statistics of Ambiguous Rotations***Lunch 12:30 – 1:30****Session 5 (1:30 – 3:30)****Chair: Richard Arnold**

1:30 – 2:00

Nicholas **Witte** (Massey University, Palmerston North)
New Universal Distributions arising from Correlated Random Variables: Examples from Random Matrices

2:00 – 2:30

Andriy **Olenko** (La Trobe University, Melbourne)
Rate of Convergence to Hermite-type Distributions

2:30 – 3:00

Kit **Withers** (Wellington)
The Distribution of the Minimum of a Positive Sample

3:00 – 3:30

Budhi **Surya** (Victoria University of Wellington)
*Markov Mixture Process with Multi Absorbing States***Refreshments 3:30 – 4:00****Session 6 (4:00 – 5:35)****Chair: Ivy Liu**

4:00 – 4:30

Thuong **Nguyen** (Victoria University of Wellington)
Distribution-Free Goodness of Fit Tests in Contingency Tables

4:30 – 5:00

Andrew **Barbour** (Universitaet Zuerich)
Schistosomiasis: Models and Data

5:00 – 5:30

Estate **Khmaladze** (Victoria University of Wellington)
Possibilities for Testing Linear Regression

5:30 –

*Closing, then drinks at the bar ☺***Day 3: Wednesday 6 December 2017****Excursion: Matiu/Somes Island**

9:40 – 3:00

Optional boat trip/walking tour to **Matiu/Somes Island**, then lunch in Wellington
Meet at 9:40am at Queens Wharf (on the Wellington waterfront) to buy tickets for the 10:00am ferry to Matiu/Somes Island. The ferry ride takes 20 minutes. Return to Wellington on the 12:50pm ferry in time for lunch at a local restaurant, Dockside Restaurant & Bar. More details are given on the Workshop website.