

## Seventh Wellington Workshop in Probability and Mathematical Statistics

Day 1: Thursday 5 December 2019 Room: LB LT118			
Session 1.1 (12:20 -	- 2:00)	Chair: John Haywood	
12:20 - 12:30	Formal Welcome, Professor Simon Davy, Dean of Scier Wellington Housekeeping, John Haywood	nce, Victoria University of	
12:30 - 1:00	Priscilla <b>Greenwood</b> , University of British Columbia Noise Sharing and Mexican-Hat Coupling in a Stochastic Neural Field		
1:00 - 1:30	Leigh <b>Roberts</b> , Victoria University of Wellington On the Use of the second Khmaladze Transform to Test Goodness of Fit in Mixtures of Hidden Markov Models		
1:30 - 2:00	Jesse <b>Goodman</b> , University of Auckland Extreme Values, Couplings and Graphs		
	Refreshments 2:00 – 2:30		
Session 1.2 (2:30 -	4:00)	Chair: Mark Holmes	
2:30 - 3:00	Martin <b>Barlow</b> , University of British Columbia Uniform Spanning Tree and Loop Erased Random Walk		
3:00 - 3:30	Alejandro <b>Ramirez</b> , Catholic University of Chile Equality between Quenched and Annealed Rate Functions of Random Walks in Random Environments		
3:30 - 4:00	Akira <b>Sakai</b> , Hokkaido University Finding Optimal Solutions by Stochastic Cellular Automo	ata (SCA)	
Refreshments 4:00 – 4:30			
Session 1.3 (4:30 -	5:30)	Chair: Ilze Ziedins	
4:30 - 5:00	Han Liang <b>Gan</b> , University of Waikato (from 2020) Arcsine Laws for Permutation Generated Random Walk	S	
5:00 - 5:30	Xi <b>Geng</b> , University of Melbourne The Signature of a Path: Uniqueness and Beyond		
Drinks, Workshop Dinner and Birthday Cake: Shed 5, Queens Wharf, Wellington 7:15 –			

Day 2: Friday 6	December 2019	Room: LB LT118
Session 2.1 (10:00	- 11:00)	Chair: Richard Arnold
10:00 - 10:30	E. James <b>Harner</b> , West Virginia University Random KNN Classification and Regression	
10:30 - 11:00	Yuichi <b>Hirose</b> , Victoria University of Wellington Using Copulas to Model and Simulate Two-Dimensional Warranty Data	
	Refreshments 11:00 – 11:30	)
Session 2.2 (11:30	- 1:00)	Chair: Andrew Barbour
11:30 – 12:00	Sophie <b>Hautphenne</b> , University of Melbourn Inference in Population-Size-Dependent Bran	
12:00 – 12:30	Peter <b>Braunsteins</b> , University of Melbourne Local Limit Theorems for Occupancy Models	
12:30 - 1:00	Sheldon M. <b>Ross</b> , University of Southern Cali The Friendship Paradox and a Probabilistic Fr	
	Workshop Photo, then Lunch 1:00	) – 2:00
Session 2.3 (2:00 –	· 3:30)	Chair: Ryan Admiraal
2:00 – 2:30	Nathan <b>Ross</b> , University of Melbourne Dirichlet and Poisson-Dirichlet Approximations for some Wright-Fisher Models with Mutation	
2:30 – 3:00	Nicholas <b>Witte</b> , Massey University, Palmerston North The Distribution of Zeros of the Derivative of the Riemann Zeta Function via Random Unitary Matrices	
3:00 – 3:30	Kit <b>Withers</b> , Wellington A Multivariate Chain Rule for Derivatives with Applications to Studentized Functions	
	Refreshments 3:30 – 4:00	
Session 2.4 (4:00 –	· 5:35)	Chair: Ivy Liu
4:00 - 4:30	Karim <b>Seghouane</b> , University of Melbourne Sparse Principal Component Analysis with Pro	eserved Sparsity Pattern
4:30 – 5:00	Budhi <b>Surya</b> , Victoria University of Wellington Exit Time Distributions of the Finite Mixture of Markov Jump Processes: Properties and the EM Estimation	
5:00 – 5:30	Estate Khmaladze, Victoria University of Wellington Distribution-free Testing for Markov Sequences	
5:30 –	Closing, then drinks at the bar $\textcircled{\odot}$	
Day 3: Saturday	7 December 2019	Leisure Activities: TBC
TBC – TBC	Optional, details TBC	