

2nd Cornell Probability Summer School

June 26 – July 7, 2006

Monday June 26

9:15-10:30 Warren Ewens
11:00-12:00 Chip Aquadro - Locating the target of selective sweeps: theory and practice
2:00-3:00 Carlos Bustamante - Signatures of selection in domesticated species
3:30-3:55 T. Antal – Fixation of strategies for evolutionary games
4:00-4:25 A. Lambert – The canonical diffusion of adaptive dynamics
4:30-4:55 V. Sood – Evolutionary dynamics on heterogeneous degree graphs

Tuesday June 27

9:00-10:15 Warren Ewens
10:45-12:00 Bob Griffiths
2:00-3:00 Andy Clark
3:30-3:55 J. Chen – On Hoppe’s Urn and Ewens sampling formula
4:00-4:25 K. Sampson – Structured coalescent with nonconservative migration
4:30-4:55 D. Spano – Age ordered frequencies, record indices, Gibbs random partitions
5:00-5:25 Z. Dietz – Occupation laws and reinforcement schemes

Wednesday June 28

9:00-10:15 Warren Ewens
10:45-12:00 Simon Tavaré

Thursday June 29

9:00-10:15 Warren Ewens
10:45-12:00 Bob Griffiths
2:00-3:00 Susan Holmes - Studying the Immune System and Cancer with Multivariate
Statistics and Microarrays
3:30-3:55 A. Boyko – Quantifying the distribution of selective effects
4:00-4:25 F. Mendez - Linear tests based on the site frequency spectrum
4:30-4:55 J. Byrnes – Hidden Markov models for detection of gene conversion

Friday June 30

9:00-10:15 Warren Ewens
10:45-12:00 Simon Tavaré
2:00-3:00 Jason Schweinsberg
3:30-3:55 D. Schmidt – Waiting for regulatory sequences to appear
4:00-4:25 J. Berestycki - Frequency spectrum of populations with heavy tailed offspring
4:30-4:55 B. Eldon – Linkage disequilibrium under skewed offspring distributions

Monday July 3

9:00-10:15 Warren Ewens

10:45-12:00 Bob Griffiths

2:00-3:00 Steve Evans

3:30-3:55 A. Kermany – Stochastic changes in frequency of historical recombinations

4:00-4:25 A. Sturm – Spatial Lambda coalescents

4:30-4:55 N. Berestycki – Global divergence of spatial coalescents

Tuesday July 4

9:00-10:15 Simon Tavaré

10:45-12:00 Bob Griffiths

Wednesday July 5

9:00-10:15 Simon Tavaré

10:45-11:45 Paul Joyce – Statistical inference for population genetics models.

2:00-3:00 Steve Krone - Stochastic demography, coalescents, and effective population size

3:30-3:55 S. Grusea – Searching for conserved syntenies

4:00-4:25 E. Huerta-Sanchez – Wagner’s canalization model

4:30-4:55 J. Jensen – Inferring selection in the real world

6:00-8:00 *BBQ at Big Red Barn*

Thursday July 6

9:00-10:15 Bob Griffiths

10:45-12:00 Simon Tavaré

2:00-3:00 Vlada Limic – NK model

3:30-3:55 P. Munday – Importance sampling for inference on infectious diseases

4:00-4:25 H. Kang – The infection cycle of virus phage Q beta

4:30-4:55 Raazesh Sainudiin - Exactly Approximate Bayesian Computations

Friday July 7

9-10:15 Bob Griffiths

10:45-12:00 Simon Tavaré