

## The program during the Humboldt, 16-18 May, 2011 on “Mathematics, Statistics and Computer Science for the Interpretation of Structure”

### 16 May

- 9:10--- 9:15 Nanny Wermuth, The Humboldt Foundation and this Humboldt Kolleg  
9:15--- 9:40 David Cox, Graphical models, challenges from applied statistics  
9:40--- 9:55 Discussion  
9:55---10:20 Steffen Lauritzen, Challenges with graphical models  
10:20---10:35 Discussion
- 10:35---11:00 Coffee break
- 11:00---11:25 Alexis Roche, Variational sampling and brain imaging  
11:25---11:40 Discussion  
11:40---11:55 Daniel Vogel, Elliptical graphical modelling  
11:55---12:05 Discussion
- 12:10---14:40 Lunch break and walk
- 14:40---15:05 Jaroslav Nesetril, The role of graphs in defining structure and the degrees of freedom  
15:05---15:20 Discussion  
15:20---15:45 Ralph Neininger, Analyses of algorithms and random discrete structures  
15:45---16:00 Discussion  
16:00---16:20 Helene Massam, Geometry of hierarchical discrete loglinear models for Bayes factors  
16:20---16:30 Discussion
- 16:30---17:00 Coffee break
- 17:00--- 17:25 Stephen Stigler, A historical perspective of studying structure in statistics  
17:25--- 17:40 Discussion  
17:40--- 18:05 Jianqing Fan, Estimating false discovery proportions under arbitrary dependence  
18:05--- 18:20 Discussion
- 18:30--- 20:30 Dinner  
20:30--- 21:30 Summing-up, discussion, posters

### 17 May

- 9:15--- 9:40 Luc Devroye, Tree classifiers and complexity  
9:40--- 9:55 Discussion  
9:55---10:20 Robert Castelo, Graphical Markov models for estimating molecular regulatory networks  
10:20---10:35 Discussion
- 10:35---11:00 Coffee break
- 11:00---11:25 Milan Studeny, Algebraic representatives of independence models  
11:25---11:40 Discussion  
11:40---11:55 Michael Wiedenbeck, On matroids for regression chains  
11:55---12:05 Discussion
- 12:10---14:40 Lunch break and walk
- 14:40---15:05 Rolf Sundberg, Inference with climate models, and climate reconstruction  
15:05---15:20 Discussion  
15:20---15:45 Elena Stanghellini, A randomised controlled trial of treatments for sprained ankles  
15:45---16:00 Discussion  
16:00---16:20 Minna Hjelmers, Estimation with non-ignorable missing continuous outcome  
16:20---16:30 Discussion
- 16:30---17:00 Coffee break
- 17:00--- 17:25 Arthur Dempster, DS discounting for identifying structure in a complex system  
17:25--- 17:40 Discussion  
17:40--- 18:05 Bala Rajaratnam, Decomposable covariance graph models  
18:05--- 18:20 Discussion
- 18:30--- 20:30 Dinner break  
20:30--- 21:30 Summing-up, discussion, posters

## 18 May

- 9:15--- 9:40 Fero Matus, Gaussian conditional independence structures  
9:40--- 9:55 Discussion  
9:55---10:20 Friedrich Pukelsheim, Electoral systems: on the iterative proportional fitting procedure  
10:20---10:35 Discussion
- 10:35---11:00 Coffee break
- 11:00---11:25 Mathias Drton, Identifiability of linear structural equation models  
11:25---11:40 Discussion  
11:40---11:55 Rhian Daniel, On recursive regressions and the g-computation formula  
11:55---12:05 Discussion
- 12:10---14:40 Lunch break and walk
- 14:40---15:05 Giovanni Marchetti, Regression graphs and categorical joint responses  
15:05---15:20 Discussion  
15:20---15:45 Kayvan Sadeghi, Markov properties for loopless mixed graphs  
15:45---16:00 Discussion  
16:00---16:20 Monia Lupparelli, Moebius ratio models for binary data  
16:20---16:30 Discussion
- 16:30---17:00 Coffee break
- 17:00--- 17:25 Ingram Olkin, Research synthesis: combining the results of independent studies  
17:25--- 17:40 Discussion  
17:40--- 18:05 Nanny Wermuth, On the special features of summary graphs  
18:05--- 18:20 Discussion
- 18:30--- 20:30 Dinner  
20:30--- 21:30 Summing-up, discussion, posters