
FocuStat Conference, May 22-25, 2018

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FocuStat, Focus Driven Statistical Inference With Complex Data, is a five-year research programme at the Department of Mathematics, University of Oslo, funded by the Norwegian Research Council, led by Nils Lid Hjort. We're having PostDocs, a little flock of PhDs, Master students, several visitors, some other associated colleagues, etc. For our statistical research themes, publications, talks, workshops, research kitchens, a string of well-visited blog posts, and other activities, check our FocuStat webpage and our Facebook pages.

In May '15, May '16, May '17 we have organised theme-based three-day workshops (on respectively Inference With Confidence, FICology, and Building Bridges, see our FocuStat website). Now, for **Tue May 22 morning to Fri May 25 lunch**, we're hosting the **FocuStat Conference**. It has a broader horizon than the workshops, with a number of **theme-blocks**. These theme-blocks have a median number of three selected speakers, with 35 minutes talks. The hope & plan is active participation and discussions, during, between, and after talks. The conference takes place at **Ingeniørenes Hus**, Tue-Wed-Thu from 9:00 to about 16:00, and Fri from 9:00 up to and including lunch. The Friday session has a different flavour than the others, with four Cool Strong Application Stories (delivered by Cool Strong Statisticians, of course), and should interest people also outside the methodological circles.

Everyone in the Oslo area (and beyond), interested in modern-day statistics, methodology and applications, is very cordially invited to take part in the conference. Lunches and something for coffee-tea-breaks are included. You **need to register**, however, via the link below, so that we can count heads and lunch places. There is a ceiling for the number of participants, so please register early: <https://nettskjema.uio.no/answer/95600.html>

Preliminary Day-to-Day Plan (with a fuller programme to be published by mid-April, complete with abstracts, accurate time-points, etc.):

Tuesday May 22:

Welcome & introduction

Nils Lid Hjort

Block I: Confidence Distributions and Related Themes

- 1 *Jan Hannig*: Deep Fiducial Inference
- 2 *Tore Schweder*: Unbiased confidence
- 3 *Leiv Tore Salte Rønneberg*: Confidence distributions and objective Bayesian inference: Some comparisons

lunch break

Block II: Survival and Event Histories

- 4 *Riccardo de Bin*: Strategies to derive combined prediction models using both clinical predictors and high-throughput molecular data
- 5 *Håkon Gjessing*: Joint modeling of fetal size and time-to-birth
- 6 *Nils Lid Hjort*: Survival and event history analysis via gamma process models

Wednesday May 23:

Block III: FICology

- 1 *Martin Jullum*: Parametric or nonparametric, that's the question
- 2 *Gerda Claeskens*: Keep the focus
- 3 *Vinnie Ko*: FIC for copulae

lunch break

Block IV: Highdimensional models and applications

- 4 *Sylvia Richardson*: Uncovering structure in high dimensional data via outcome-guided clustering
- 5 *Aliaksandr Hubin*: Deep Bayesian regression models
- 6 *Kristoffer Hellton*: High-dimensional asymptotics of principal component regression

Excursion & Conference Dinner (more information to come)

Thursday May 24:

Block V: From Processes to Models

- 1 *Alex Whitmore*: Distribution-free inference methods for threshold regression
- 2 *Emil Aas Stoltenberg*: Models and inference for on-off data via clipped Ornstein–Uhlenbeck processes
- 3 *Per Mykland*: The five trolls under the bridge: Principal Component Analysis with asynchronous and noisy high frequency data

lunch break

Block VI: Dynamics, Change-points, Complexities

- 4 *Idris Eckley*: Change-points in complex models
- 5 *Gudmund Hermansen*: Bayesian nonparametrics for time series
- 6 *Ingrid Hobæk Haff*: Focussed selection of the claim severity distribution in non-life insurance

Friday May 25:

Block VII: Cool Strong Application Stories

- 1 *Ørnulf Borgan*: Do Japanese and Italian women live longer than women in Scandinavia?
- 2 *Arnoldo Frigessi*: Personalized computer simulation of breast cancer treatment: A multiscale dynamic model informed by multi-source patient data
- 3 *Håvard Nygård*: Why (and when) do small conflicts become big wars?
- 4 *Céline Cunen*: Whales, politics, and statisticians

Panel Discussion & Looking Ahead (but only for eighteen brief minutes)

lunch (& then going home)

Cordially & enthusiastically,

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Please check out

www.mn.uio.no/math/english/research/projects/focustat/index.html

where you'll find Publications, Talks, News-and-Events, The FocuStat Blog!, Workshops (and Kitchens), Who-we-Are, etc.