STK 9200: the Journal Papers Reading Club Course
Autumn 2021

Game Plan (tentative, so far)
by Nils Lid Hjort

– This version: as of 7/ix/2021 –

Papers, during the course and on our Reading List, which will be updated several times as we go along, are somewhat tentatively sorted into categories

A, 'classics', from methodological statistics;
B, papers related to the PhD projects of the participants;
C, statistics in society;
D, those we might detect under way and perhaps briefly summarise and discuss in passing.

To the first order of organisational approximation, I'm hoping that each participant can present one **A** (or **C**) and one **B** in the course of the semester.

Participants: also other PhD candidates than those needing to take the exam are welcomed here, but the Most Real Candidates, those taking the exam in December, are given priority, when it comes to organising our list of presenters. According to Nils's notes, as of 7/ix/2021, the Most Real Candidates are:

Fabian Bull, Dennis Christensen, Ingrid Dæhlen, Haris Fawad, Lars Henry Berge Olsen, Per August Moen, Adam Austin Rogers, Haifeng Xu,

whereas Thomas Minotto, Kristine Baluka Hein, Riccardo Parviero, Fredrik Lundvall Wollbraaten are taking part, but do not (have to) take the exam.

Exam: will be held in the first half of December, and consists in candidates presenting *another paper*, i.e. not the one he or she has already presented in class; the paper in question could be one of the other papers seen in the course, or a fully new one.

Tue Aug 31:

* Dennis Christensen: presents Breiman (2001), **A**.

Tue Sep 7:

* Adam Rogers: presents Hayes and Rockwood (2017), **B**.
* Per August Moen: presents Fearnhead (2006), **B**.

Tue Sep 14:

* Ingrid Dæhlen: presents Mikosch (2006), **B** (and also says something about Genest)
* Fabian Bull: presents Hastings (1970), **A, B**.

Tue Sep 21:

* Haris Fawad: presents Holland (1986), **A**.
* Lars Olsen: presents Aas, Jullum, Løland (2021), **B**.

Tue Sep 28:

* Haifeng Xu: presents Liu, Wang, Genchev, Lu (2017), **B**.
* Fredrik Wollbraaten: presents Tibshirani (1996), **A, B**.

Tue Oct 5:

* Thomas Minotto: presents Ruczinski, Kooperberg, Leblanc, **B**.
* Dennis Christensen: presents a **B** paper ...

Tue Oct 12:

* Riccardo Parviero: presents [xx the PhysRevLetters paper xx], **B.**
* Haris Fawad: presents Ryalen, Stensrud, Røysland (2019), **B**.

Tue Oct 19:

Tue Oct 26:

Tue Nov 2:

Tue Nov 9:

Tue Nov 16:

Tue Nov 23:

Reading List

Here papers are tentatively and not precisely sorted into categories **A**, classics; **B**, related to PhD projects; **C**, statistics in society; **D**, papers we detect as we go along and perhaps discuss in passing.

Breiman, L. (2001), **A**. Statistical modeling: the two cultures [with discussion]. *Statistical Science* **16**, 199-231. – There are several discussion contributions; read in particular those of D.R. Cox and B. Efron.

Cunen, C., Hermansen, G.H., Hjort, N.L. (2021), **D**. Confidence distributions for change-points and regime shifts. *Journal of Statistical Planning and Inference* **195**, 14–34.

Cunen, C., Hjort, N.L. (2021), **B**. Combining information across diverse sources: The II-CC-FF paradigm. *Scandinavian Journal of Statistics* **xx**, 11–32.

Cunen, C., Hjort, N.L., Nygård, H.M. (2020), **D**. Statistical sightings of better angels: Analysing the distribution of battle-deaths in interstate conflict over time. *Journal of Peace Research* **57**, 221–234.

Efron, B. (1979), **A**. Bootstrap methods: another look at the jackknife. *Annals of Statistics* **7**, 1–26.

Fearnhead, P. (2006), **B**. Exact and efficient Bayesian inference for multiple changepoint problems. *Statistics and Computing* **16**, 203–213.

Ferguson, T.S. (1973), **A**. A Bayesian analysis of some nonparametric problems. *Annals of Statistics* **1**, 209–230.

Ferguson, T.S. (1974), **A**. Prior distributions on spaces of probability measures. *Annals of Statistics* **2**, 615–629.

Hastings, W.K. (1970), **A, B**. Monte Carlo sampling methods using Markov chains and their applications. *Biometrika* **57**, 97–100.

Hayes, A.F., Rockwood, N.J. (2017), **B**. Regression-based statistical mediation and moderation analysis in clinical research: Observations, recommendations, and implementation. *Behaviour Research and Threrapy* **98**, 39–57.

Hjort, N.L. (1994), **D**, perhaps also **C**, since it changed the Olympics. Should the Olympic sprint skaters run the 500 meter twice? Statistical Research Report, Department of Mathematics, University of Oslo.

Hjort, N.L., Glad, I.K. (1996), **A**. Nonparametric density estimation with a parametric start. *Annals of Statistics* **23**, 882–904.

Holland, P.W. (1985), **A**. Statistics and causal inference. *Biometrika* **81**, 945–960.

Mikosch, T. (2006), **B**. Copulas: Tales and facts [with discussion]. *Extremes* **9**, 3–20. – There are several discussion contributions; read in particualr those of C. Genest & B. Rémillard, pages 27–36, and of P. Embrechts, pages 45–47.

Ruczinski, I., Charles Kooperberg, C., Leblanc, M. (2003), **B**. Logic regression. *Journal of Computational and Graphical Statistics* **12**, 475–511.

Ryalen, P.C., Stensrud, M.J., Røysland, K. (2019). The additive hazard estimator is

consistent for continuous-time marginal structural models. *Lifetime Data Analysis* **25**, 611–638.

Tibshirani, R. (1996), **A, B**. Regression shrinkage and selection with the Lasso. *Journal of the Royal Statistical Society* **B 58**, 267–288.

Welling, M., Teh, Y.W. (20xx). Bayesian learning via stochasttc gradient Langevin dynamics, **B.** *Proceedings of the 28th Conference on ...*, xx–xx.

Aas, K., Jullum, M., Løland, A. (2021). Explaining individual predictions when features are dependent: more accurate approximations to Shapley values. *Artificial Intelligence* **298**, xx–xx.